

# Connectors - Multipole

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## Sealed

### Miniature waterproof plastic connectors

#### HR30 Series



- Water and dust protected IP67
- Simple pull lock release
- Light weight, corrosion resistant
- Contact protection and self-alignment
- Visual alignment indicators
- Built-in cable strain relief

484195

Description	No. of Ways	Mfrs. List No.	Order Code	Price Each		
				1+	10+	50+
<b>Plug, Solder</b>						
Female	3	HR30-6P-3S(71)	142-5743			
Male	6	HR30-6P-6P(71)	142-5745			
Female	6	HR30-6P-6S(71)	142-5744			
Female	12	HR30-7P-12S(71)	142-5749			
Male	12	HR30-8P-12P(71)	142-5750			
Female, Fine Wire	3	HR30-6PA-3S(71)	142-5746			
Male, Fine Wire	6	HR30-6PA-6P(71)	142-5748			
Female, Fine Wire	6	HR30-6PA-6S(71)	142-5747			
<b>Plug, Crimp</b>						
Female	10	HR30-7P-10SC(71)	142-5751			
Female	12	HR30-7P-12SC(71)	142-5752			
Male	12	HR30-8P-12PC(71)	142-5753			
<b>Receptacle, Solder</b>						
Male	3	HR30-6R-3P(71)	142-5755			
Female	6	HR30-6R-6P(71)	142-5756			
Female	6	HR30-6R-6S(71)	142-5757			
Male	12	HR30-7R-12P(71)	142-5758			
Female	12	HR30-8R-12S(71)	142-5759			
<b>Receptacle, Crimp</b>						
Male, crimp	10	HR30-7R-10PC(71)	142-5760			
Male, crimp	12	HR30-7R-12PC(71)	142-5761			
<b>Receptacle, Through Hole</b>						
Male, Through Hole	6	HR30-6R-6PD(71)	142-5763			
Female, Through Hole	6	HR30-6R-6SD(71)	142-5764			
Male, Through Hole	12	HR30-7R-12PD(71)	142-5765			
Female, Through Hole	12	HR30-8R-12SD(71)	142-5767			
<b>Jack, Solder</b>						
Male	6	HR30-6J-6P(71)	142-5768			
Male	6	HR30-6JA-6P(71)	142-5769			
Male	12	HR30-7J-12P(71)	142-5770			
Female	12	HR30-8J-12S(71)	142-5771			
<b>Jack, Crimp</b>						
Male	10	HR30-7J-10PC(71)	142-5772			
Male	12	HR30-7J-12PC(71)	142-5773			
Female	12	HR30-8J-12SC(71)	142-5774			
<b>Accessories</b>						
Cap, Plug size 6		HR30-6P-C(71)	142-5775			
Cap, Plug size 7		HR30-7P-C(71)	142-5776			
Cap, Plug size 8		HR30-8P-C(71)	142-5777			
Cap, Receptacle size 6		HR30-6R-C(71)	142-5779			
Cap, Receptacle size 7		HR30-7R-C(71)	142-5781			
Crimp contact, Male	1	HR30-PC-111	142-5782			
Crimp contact, Female	1	HR30-SC-111	142-5784			
Crimp Hand Tool	1	HT-102/HR30-1	142-5785			

## Miniature Waterproof Shielded Connectors

### LF Series



- Simple assembly and connection of shielded cable
- Water and dust protected
- Bayonet Lock
- High current carrying capacity
- Safety standards compliance

Current Rating	3 way 5A 4 & 11 way 10A 6,12 & 20 way 2A	Durability	1000 cycles
Voltage Rating	125V AC	Contacts	Copper Alloy, Gold Plating Black
Operating Temperature	-25°C to 85°C	Colour	

493981

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
<b>Receptacle</b>					
3 Female Pins	LF07WBR-3S	151-8763			
3 Male Pins	LF07WBR-3P	151-8764			
4 Female Pins	LF10WBR-4S	151-8748			
4 Male Pins	LF10WBR-4P	151-8749			
6 Female Pins	LF07WBR-6S	151-8761			
6 Male Pins	LF07WBR-6P	151-8762			
11 Male Pin	LF13WBR-11S	176-4389			
12 Female Pins	LF10WBR-12S	151-8750			
12 Male Pins	LF10WBR-12P	151-8751			
<b>Plug</b>					
3 Female Pins	LF07WBP-3S	151-8767			
3 Male Pins	LF07WBP-3P	151-8769			
4 Female Pins	LF10WBP-4S	151-8752			
4 Male Pins	LF10WBP-4P	151-8753			
6 Female Pins	LF07WBP-6S	151-8765			
6 Male Pins	LF07WBP-6P	151-8766			
11 Male Pin	LF13WBP-11P	176-4384			
12 Female Pins	LF10WBP-12S	151-8754			
12 Male Pins	LF10WBP-12P	151-8755			
20 Male Pin	LF13WBP-20P	176-4386			
20 Male Pin	LF13WBP-20S	176-4387			
<b>Jack</b>					
3 Male Pin	LF07WBJ-3P	151-8774			
4 Female Pin	LF10WBJ-4S	151-8757			
4 Male Pin	LF10WBJ-4P	151-8758			
6 Female Pin	LF07WBJ-6S	151-8771			
6 Male Pin	LF07WBJ-6P	151-8772			
11 Male Pin	LF13WBJ-11P	176-4379			
11 Male Pin	LF13WBJ-11S	176-4381			
12 Female Pin	LF10WBJ-12S	151-8759			
12 Male Pin	LF10WBJ-12P	151-8760			
20 Male Pin	LF13WBJ-20P	176-4382			
20 Male Pin	LF13WBJ-20S	176-4383			

## FREE GLOBAL LEGISLATION SUPPORT



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Heavy Duty Metal Shell

Series JR-W

**NEW**



JR series connectors offer excellent performance both electrically and mechanically, 5 keys system ensures secure fitting and a waterproof type is available

- Shell Material nickel plated aluminium alloy
- Pin and Socket contacts Silver plated Copper alloy

Connector Shell Size (mm)	Cable Diameter (mm)	Mfrs. List No.	Order Code
13	10	JR13WCC-10(71)	206-1562

660502

Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
JR13WCC-10(71)	206-1562					

Cable Assembly



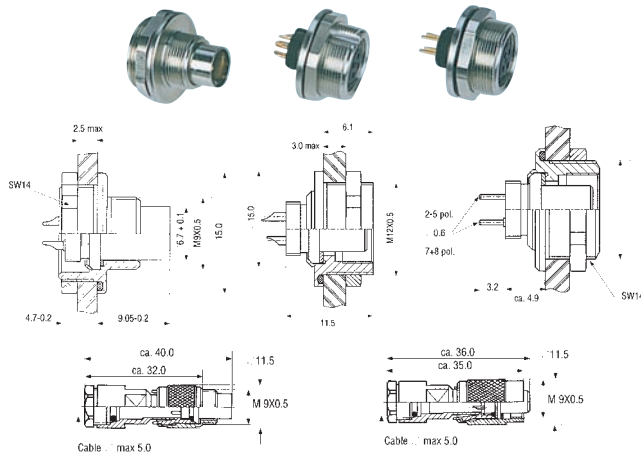
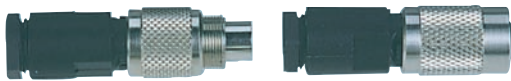
- Overmoulded 3 metre cable assembly
- Pre-wired with plug and socket
- 3 through to 4 way
- Ready to use and interfaces with panel, pcb plugs and sockets
- Shielded construction

209244

No. of ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
3	T01-0599-B03-B	130-977				
4	T01-0599-B04-B	130-989				

Subminiature Circular 'Series 712'

M9



- A range of small rugged connectors
- Free plug and socket incorporate cable clamp pinch ring
- IP67 rating when mated

Contact rating	4A (2 & 3 way)	3A (4 & 5 way)	1A (7 & 8 way)
Voltage rating	125V		
Contact resistance	≤2mΩ		
Insulation resistance	10Ω		
Capacitance between adjacent contacts	1.5pF		
Temperature range	-40°C to +85°C		
Housing	Brass nickel plated		
Dielectric	PETP		
Contact (socket)	Gold plating		
Contact (pins)	Gold plating		
Max. wire size	0.25mm <sup>2</sup> (2, 3, 4 & 5 way)		
Max. wire size	0.14mm <sup>2</sup> (7 & 8 way)		
Max. cable diameter	5mm		

Note: IP67 protection only when mated

208999

No of Ways	Mfrs. List No.	Order Code	1+	20+	50+	100+
<b>Free Plug - Solder bucket contacts</b>						
2	99 0401 00 02	112-2549				
2	99 0401 00 02	112-2549				
3	99 0405 00 03	112-2550				
4	99 0409 00 04	112-2552				
5	99 0413 00 05	112-2553				
2	99 0401 00 02	112-2549				
7	99 0421 00 07	112-2554				
8	99 0425 00 08	112-2555				
<b>Free Plug - Right Angle - Solder bucket contacts</b>						
3	99 0405 70 03	112-2829				
4	99 0409 70 04	112-2830				
5	99 0413 70 05	112-2831				
8	99 0425 70 08	112-2833				
<b>Free Socket - Solder bucket contacts</b>						
2	99 0402 00 02	112-2556				
3	99 0406 00 03	112-2557				
4	99 0410 00 04	112-2558				
5	99 0414 00 05	112-2559				
7	99 0422 00 07	112-2560				
8	99 0426 00 08	112-2561				

<b>Panel Plug - Solder bucket contacts</b>						
2	09 0403 00 02	112-2562				
3	09 0407 00 03	112-2564				
4	09 0411 00 04	112-2565				
5	09 0415 00 05	112-2566				
7	09 0423 00 07	112-2567				
8	09 0427 00 08	112-2568				
<b>Free Socket - Right Angle - Solder bucket contacts</b>						
2	99 0402 70 02	112-2834				
3	99 0406 70 03	112-2835				
5	99 0414 70 05	112-2838				
7	79-1405-12-03	177-8707				

<b>Panel Socket - Solder bucket contacts</b>						
2	09 0404 80 02	112-2569				
3	09 0408 80 03	112-2570				
4	09 0412 80 04	112-2571				
5	09 0416 80 05	112-2572				
7	09 0424 80 07	112-2573				
8	09 0428 80 08	112-2574				
<b>Panel Socket - DIP soldering contacts</b>						
2	09 0404 90 02	112-2576				
3	09-0408-90-03	177-8704				
5	09 0416 90 05	112-2579				
7	09 0424 90 07	112-2580				
8	09-0428-90-08	177-8706				

<b>Protective Caps</b>						
Panel Plug	08-0351-00-01	112-2839				
Panel Socket	08-0352-00-01	112-2840				

<b>Cable Assemblies</b>						
<b>M9 Plug - Free-End, Length = 2m</b>						
2 Way	79-1405-12-03	177-8707				
<b>M9 Socket - Free-End, Length = 2m</b>						
2 Way	79-1402-12-02	177-8708				
3 Way	79-1406-12-03	177-8709				
4 Way	79-1410-12-04	177-8710				

Miniature Circular Series 423/723

EMC Shielding 360°



- Lightweight metal connectors, series 423
- Panel plug rear mounting, series 723
- Integral cable clamp (∅4-6mm)
- EMC shielding 360°
- Solder buckets
- Sealing to IP67, when mated

Current rating	5A (2-8 ways), 3A (12 ways)A	Contact resistance	≤3mΩ
Voltage rating	250V ac (VDE standard 0110)	Insulation resistance	<10 <sup>13</sup> Ω
Housing	Brass, nickel finish	Insulator	PETP gv
Crimp contacts	Phosphor bronze, tin plated	Contact socket	CuSn, 4µm Ag
Temperature range	-40°C to +85°C	Contact pin	CuZn, 4µm Ag

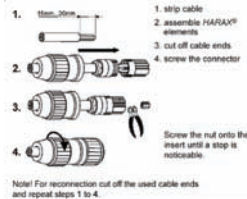
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No. of ways	Mftrs. List No.	Order Code	1+	50+	100+	500+
<b>Free Plug - Series 423</b>						
2	99 5101 15 02	112-2419	●			
3	99 5105 15 03	112-2420	●			
4	99 5109 15 04	112-2421	●			
5	99 5113 15 05	112-2422	●			
8	99 5171 15 08	112-2424	●			
12	99 5129 15 12	112-2426	●			
<b>Free Socket - Series 423</b>						
2	99 5102 15 02	112-2427	●			
3	99 5106 15 03	112-2428	●			
4	99 5110 15 04	112-2429	●			
5	99 5114 15 05	112-2430	●			
8	99 5172 15 08	112-2431	●			
12	99 5130 15 12	112-2432	●			
Cap	08 1078 000 000	112-2433	●			
<b>Male Receptacle- Rear Mount 723</b>						
2	09 0103 00 02	112-2434	●			
3	09 0107 00 03	112-2436	●			
4	09 0111 00 04	112-2437	●			
8	09 0173 00 08	112-2438	●			
12	09 0131 00 12	112-2439	●			
Cap	08 1079 000 000	112-2440	●			
<b>Female Receptacle- Rear Mount 723</b>						
2	09 0104 00 02	112-2441	●			
3	09 0108 00 03	112-2442	●			
4	09 0112 00 04	112-2443	●			
5	09 0116 00 05	112-2444	●			
8	09 0174 00 08	112-2445	●			
12	09 0132 00 12	112-2446	●			
Cap	08 1080 000 000	112-2448	●			

### HARAX® Circular Connector Free Plugs and Sockets



The HARAX rapid termination system uses axial insulation displacement technology to reduce installation time by up to 50%. Installation simply involves removing the outer insulation of the cable, attaching the HARAX connector assembly, and tightening a screw cap. Not only is connection performed automatically, but the finished joint offers full strain relief as well as sealing to IP67.



- HARAX® rapid termination system
- Designed for use in industrial sensor systems to M12 and M8 standards
- Pre-leading contact option available with 3 pole M12-L version

	M8-S	M12-S	M12-L
Voltage rating	32V	32V	32V
Current rating	4A	4A	4A
Conductor cross section	0.14mm <sup>2</sup> - 0.34mm <sup>2</sup>	0.14mm <sup>2</sup> - 0.34mm <sup>2</sup>	0.34mm <sup>2</sup> - 0.75mm <sup>2</sup>
Conductor cross section AWG	26 - 22	26 - 22	22 - 18
Conductor diameter	1.0mm - 1.6mm	1.0mm - 1.6mm	1.6mm - 2.0mm
Cable Diameter	3.2mm - 5.4mm	4.0mm - 5.1mm	5.5mm - 8.0mm
Operating temperature	-5 to +50°C	-5 to +50°C	-5 to +50°C

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	50+
<b>Plug - M8-S</b>						
3	21021511305	114-6405	●			
4	21 02 151 1405	114-6406	●			
<b>Socket - M8-S</b>						
3	21 02 151 2305	114-6407	●			
4	21 02 151 2405	114-6408	●			
<b>Plug - M12-S</b>						
4	21 03 111 1405	114-6402	●			
<b>Socket - M12-S</b>						
4	21 03 111 2405	114-6404	●			
<b>Plug - M12-L</b>						
4	21 03 212 1305	114-6395	●			
<b>Socket - M12-L</b>						
4	21 03 212 2305	114-6399	●			

### Econseal E

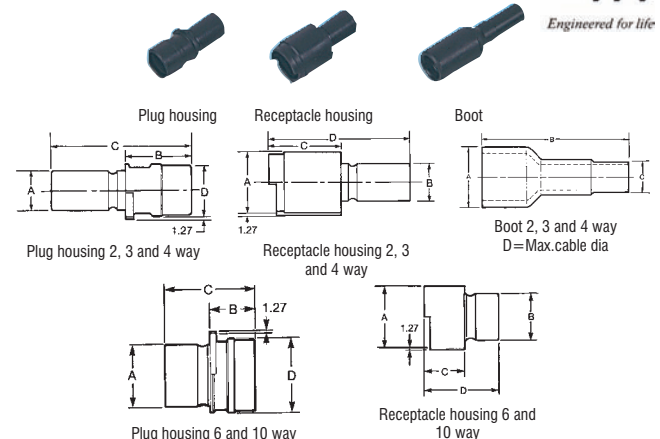


- Suitable for use in hazardous environmental conditions
- IP64 according to DIN40050
- Available in 2 and 3 position version
- Truncated cone at the wire side of the housing aids the fitting of heatshrink or rubber boot

Housings PA 6.6 GF13  
Contacts Brass, Tin plated

No. of ways	Insulation Dia.	Mftrs. List No.	Order Code	1+	50+	100+
<b>Plugs</b>						
2	1.3-3.0mm	826883-2	359-488	●		
3	2.3-3.0mm	826885-2	359-518	●		
3	1.3-2.3mm	826885-8	359-543	●		
<b>Sockets</b>						
2	2.3-3.0mm	826884-3	359-490	●		
3	2.3-3.0mm	826886-4	359-579	●		
3	1.3-2.3mm	826886-7	359-592	●		
<b>Contacts</b>						
				10+	500+	1K+
<b>Pins</b>						
	0.5-1mm <sup>2</sup> wire	926981-2	359-622	●		
	1-2.5mm <sup>2</sup> wire	926983-2	359-634	●		
<b>Sockets</b>						
	0.5-1mm <sup>2</sup> wire	827396-2	359-683	●		
	1-2mm <sup>2</sup> wire	827397-2	359-774	●		
<b>Hand crimp Tool</b>						
		825582-2	359-798			
<b>Extraction Tool</b>						
		539972-1	990-9125			

### 'Sure-Seal' Crimp 15A - IP66



A low cost range of sealed connectors meeting the requirements of IP66A DIN40050. The housings are resistant to most industrial fuel oils, ultra violet and ozone, and feature a double stepped mating face to ensure correct polarisation. UL and CSA recognised.

Contact rating	15A @ 250V ac 65°C 8A @ 250V ac 90°C	Housing Contacts	Copper Alloy -40, Tin plated 105
Contact resistance	<10mΩ	Temperature range	-40°C to +105°C
Dielectric withstand voltage	1200V ac	Sealing Capacity	3' depth immersion in 5% salt solution for short periods

No. of Ways	Max current per Contact (A)	A	B	C	D	Order Code	
1201807000	2	13.5	10.92	17.53	35.81	13.97	118-8178
1201808000	3	12	12.70	17.53	35.81	15.24	118-8179
1201809000	4	10.5	12.70	17.53	35.81	15.24	118-8180
1201842000	6	9	20.57	17.78	37.34	25.65	118-8181
1201869000	10	1.5	23.75	17.78	37.34	28.83	118-8182
1201804000	2	13.5	18.03	10.92	21.21	39.37	118-8183
1201805000	3	12	19.30	12.72	21.21	39.37	118-8184
1201806000	4	10.5	19.30	12.72	21.21	39.37	118-8186
<b>Boots</b>							
3171398000	2		16.51	52.07	9.65	5.79	118-8189
3171397000	3/4		15.49	52.07	9.65	6.10	118-8190

No. of Ways	Max current per Contact (A)	A	B	C	D	Mftrs. List No.	Order Code
<b>Plug Housings</b>							
2	13.5	10.92	17.53	35.81	13.97	1201807000	118-8178
3	12	12.70	17.53	35.81	15.24	1201808000	118-8179
4	10.5	12.70	17.53	35.81	15.24	1201809000	118-8180
<b>Receptacle Housings</b>							
2	13.5	18.03	10.92	21.21	39.37	1201804000	118-8183
3	12	19.30	12.72	21.21	39.37	1201805000	118-8184
4	10.5	19.30	12.72	21.21	39.37	1201806000	118-8186

## Sealed - continued

### 'Sure-Seal' Crimp 15A - IP66 - continued

No. of Ways	Max current per Contact (A)	A	B	C	D	Mfrs. List No.	Order Code
<b>Boots</b>							
2		16.51	52.07	9.65	5.79	3171398000	118-8189
3/4		15.49	52.07	9.65	6.10	3171397000	118-8190
<b>Clamp</b>							
2/3/4						029-8514-001	216-2762

No. of Ways	Order Code	1+	10+	50+	100+	250+
<b>Plug Housing</b>						
2	118-8178					
3	118-8179					
4	118-8180					
<b>Receptacle Housing</b>						
2	118-8183					
3	118-8184					
4	118-8186					
<b>Boots</b>						
2	118-8189					
3/4	118-8190					
<b>Clamp</b>						
2/3/4	216-2762					

### Contacts and Tooling for 'Sure Seal'



	Mfrs. List No.	Order Code
Pin contact -0.75-1.5mm <sup>2</sup>	3308672000	118-8174/602
Socket contact -0.75-1.5mm <sup>2</sup>	0318703000	121-3025/604
Crimp Tool	CCTSS2	146-350
Insertion tool - insulation dia=1.8-2.8mm	CITG-SS-1	151-654

	Order Code	1+	10+
<b>Crimp Contacts</b>			
Pins (Pack of 10)	118-8174		
Sockets (Pack of 10)	121-3025		
Crimp tool	146-350		
Insertion tool	151-654		

### 44 Series Circular Connectors

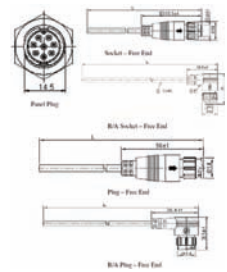
#### IP67 Plugs and Sockets

- High reliability
- Discrete wire interconnection
- Long term resistance to environmental impacts
- 3 liquid proof seals (primary, secondary and wire)
- Quick and easy assembly
- Quick and easy mating
- Protection against mismatching
- Protection class IP65/67
- 8A Current carrying capacity
- 250V ac Rated insulation voltage

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
<b>Receptacles</b>						
2	044-104-10002-02	170-4275				
3	044-104-10003-02	187-2234				
4	044-104-10004-02	187-2235				
5	044-104-10005-02	187-2236				
6	044-104-10006-02	187-2237				
<b>Plugs</b>						
2	044-103-10002	187-2238				
3	044-103-10003	187-2239				
4	044-103-10004	187-2240				
5	044-103-10005	187-2241				
6	044-103-10006	187-2243				
<b>Accessories</b>						
<b>Contacts Crimp (Bag of 100)</b>						
Pins for Receptacles	044-100-1414P-100-101	187-2244		1+	5+	10+
Sockets for Plugs	044-102-1414S-100-101	160-8414				

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
<b>Tools</b>						
Hand Crimp	357-588	187-2245				
Pin Insertion	356-258	187-2246				
Pin Removal	356-259	187-2248				
Socket Removal	356-260	187-2247				

### Miniature Waterproof Connectors and Cable Assemblies - IP67



- Current Rating - 2A, 5A or 10A
- Corrosion - 48 Hrs Salt Spray Contact
- Durability - 500 cycles min.
- Contacts - Copper Alloy, Gold plated
- Connector Material - Nylon + GF
- Black PVC Cable
- Connector Temperature Range = -40°C to +100°C
- Cable Temperature Range = -20°C to +80°C

Current Rating	No. of Ways	Order Code	1+	10+	25+	50+
<b>Panel Plugs, IP67</b>						
2A	10	186-0678				
2A	12	186-0679				
5A	4	186-0680				
5A	5	186-0681				
5A	6	186-0682				
5A	7	186-0683				
5A	8	186-0684				
10A	2	186-0685				
10A	3	186-0686				
10A	4	186-0687				

	Order Code	1+
<b>Dust Caps for Panel Plugs</b>		
Screw Cap	186-0688	
Snap-In Cap	186-0691	

	Order Code	1+
<b>Cable Assemblies, Socket - Free End, Length = 1M</b>		
2A	10	186-0692
2A	12	186-0693
5A	4	186-0694
5A	5	186-0695
5A	6	186-0696
5A	7	186-0697
5A	8	186-0698
10A	2	186-0699
10A	3	186-0700
10A	4	186-0701

	Order Code	1+
<b>Cable Assemblies, R/A, Socket - Free End, Length = 1M</b>		
2A	10	186-0702
2A	12	186-0703
5A	4	186-0704
5A	5	186-0705
5A	6	186-0706
5A	7	186-0708
5A	8	186-0709
10A	2	186-0710
10A	3	186-0711
10A	4	186-0712

	Order Code	1+
<b>Cable Assemblies, Plug - Free End, Length = 1M</b>		
2A	10	186-0713
2A	12	186-0714
5A	4	186-0715
5A	5	186-0716
5A	6	186-0717
5A	7	186-0718
5A	8	186-0721
10A	2	186-0722
10A	3	186-0723
10A	4	186-0724

	Order Code	1+
<b>Cable Assemblies, R/A, Plug - Free End, Length = 1M</b>		
2A	10	186-0725
2A	12	186-0726
5A	4	186-0727
5A	5	186-0728
5A	6	186-0729

Current Rating	No. of Ways	Order Code	1+	10+	25+	50+
<b>Cable Assemblies, R/A, Plug - Free End, Length = 1M</b>						
5A	7	186-0730				
5A	8	186-0731				
10A	2	186-0733				
10A	3	186-0734				
10A	4	186-0735				

### Miniature Waterproof Panel Sockets & Plug Cable Assemblies



**NEW**

- Current Rating - 10A
- IP Rating - IP67 (Screw Lock), IP55 (Bayonet Lock)
- Contacts - Phosphor Bronze, Gold plated
- Connector Material - Nylon + GF
- Black PVC Cable
- Temperature Range = -40°C to +100°C (Screw Lock), -20°C to +80°C (Bayonet Lock)

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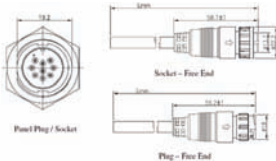
Current Rating	No. of Ways	Order Code	1+	10+	25+	50+
<b>Panel Plug, Screw Lock, IP67</b>						
10A	3	186-0736				
<b>Cable Assemblies, Plug - Free End, Length = 1M, Screw Lock, IP67</b>						
10A	3	186-0738				
<b>Square Panel Socket, Bayonet Lock, IP55</b>						
10A	3	186-0737				
<b>Cable Assemblies, Plug - Free End, Length = 1M, Bayonet Lock, IP55</b>						
10A	3	186-0739				

### Waterproof Connectors and Cable Assemblies - IP67



**NEW**

- Current Rating - 5A or 16A
- Corrosion - 48 Hrs Salt Spray Contact
- Durability - 500 cycles min.
- Contacts - Brass, Gold plated
- Connector Material - Nylon + GF
- Black PVC Cable
- Connector Temperature Range = -40°C to +100°C
- Cable Temperature Range = -20°C to +80°C

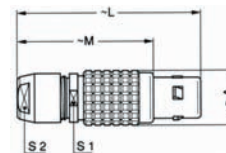
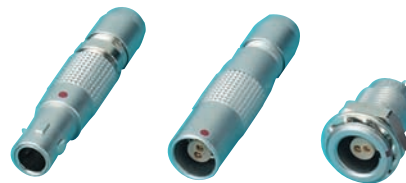


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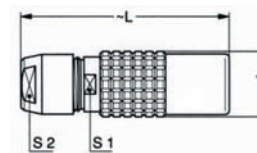
Current Rating	No. of Ways	Order Code	1+	10+	25+	50+
<b>Panel Plugs, IP67</b>						
5A	7	186-0740				
5A	8	186-0741				
5A	9	186-0742				
16A	3	186-0743				
<b>Cable Assemblies, Socket - Free End, Length = 1M</b>						
5A	7	186-0748				
5A	8	186-0749				
5A	9	186-0750				
16A	3	186-0751				
<b>Cable Assemblies, Plug - Free End, Length = 1M</b>						
5A	7	186-0753				
5A	8	186-0754				
5A	9	186-0755				
16A	3	186-0757				
<b>Panel Mount Socket, IP67</b>						
16A	3	186-0745				
<b>Cable Assembly, Plug - Free End, Length = 1M</b>						
16A	3	186-0752				
<b>Dust Caps for Panel Plugs &amp; Sockets</b>						
Screw Cap		186-0746				
Snap-In Cap		186-0747				

## Push/Pull Connectors

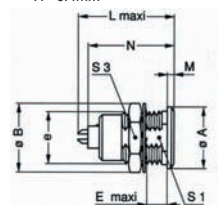
### Lemo 00 Series



**Straight Cable Plug**  
L=28.5mm S1=5.5mm  
M=20.5mm S2=5.0mm  
A=6.4mm



**Straight Cable Socket**  
L=27.0mm S1=5.5mm  
A=6.4mm S2=5.0mm



**Panel Socket**  
A=8.0mm M=1.0mm  
B=10.3mm N=13.7mm  
e=M7x0.5 S1=6.3mm  
E=5.5mm S3=9.0mm  
L=15.5mm

The Lemo 00 Series are miniature, solder terminated multipole connectors. Cable plugs (FGG) mate with cable sockets (PHG) and panel sockets (EGG). Colour coded strain relief boots are available separately.

Mfrs. List No.	Part No.
FGG.00.302.CLAD35	=381-7192
FGG.00.303.CLAD35	=381-7209
FGG.00.304.CLAD35	=381-7210
PHG.00.302.CLLD35	=381-7600
PHG.00.304.CLLD35	=381-7623
EGG.00.302.CLL	=381-7040
EGG.00.303.CLL	=381-7052
EGG.00.304.CLL	=381-7064

Current Rating	2 Way	3 Way	4 Way
Test Voltage (contact to contact)	5A	3A	2A
Operating Voltage	1.0 kV rms	0.8 kV rms	0.8 kV rms
Contact Resistance (1000 cycles)	350V	260V	260V
Dielectric Strength	7.5mΩ	7.5mΩ	7.5mΩ
Mating Cycles	19kV/mm	19kV/mm	19kV/mm
Body Mat	5000	Termination	Solder
Body Plating	Brass UNS C 38500	Contact Dia	0.5
Pin Contact Mat	Chrome	Max Wire Size Solid	28 AWG, 0.09mm <sup>2</sup>
Socket Contact Mat	Brass	Max Wire Size Stranded	30 AWG, 0.05mm <sup>2</sup>
Contact Plating	Bronze	Insulation Mat	PEEK
	Gold	Temperature Range	-55°C to +250°C

No.	Ways	Order Code	1+	5+	10+	50+	100+
<b>00 Straight Cable Plug</b>							
2		381-7192					
3		381-7209					
4		381-7210					
<b>00 Straight Cable Sockets</b>							
2		381-7600					
4		381-7623					
<b>00 Panel Sockets</b>							
2		381-7040					
3		381-7052					
4		381-7064					

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### Lemo OB Series



Type EPG

- 9.5mm diameter body
- Dense multi-contact configurations saves panel space
- Push-pull self-latching system offers ease-of use, while preventing damage to contacts
- Multiple keyways prevent accidental cross mating

#### Electrical Specification

	2 Way	3 Way	4 Way	5 Way	6 Way	7 Way
Current Rating	10A	8A	7A	6.5A	2.5A	2.5A
Test Voltage, Contact-Contact (rms)	1.30KV	1.20KV	0.85KV	1.00KV	0.85KV	0.80KV
Test Voltage, Contact-Shell (rms)	1.05KV	0.90KV	0.70KV	0.70KV	0.65KV	0.70KV
Contact Resistance	4.1mΩ	4.1mΩ	5.6mΩ	5.6mΩ	7.5mΩ	7.5mΩ
Max Wire Size	22 AWG	22 AWG	22 AWG	22 AWG	28 AWG	28 AWG

#### OB R/A PCB Mount Panel Sockets - type EPG only

	2 Way	3 Way	4 Way	5 Way	6 Way	7 Way
Current Rating	4.5A	4.5A	4.5A	4.5A	2.5A	2.0A
Test Voltage, Contact-Contact (rms)	1.45KV	1.70KV	1.30KV	1.25KV	1.25KV	1.25KV
Test Voltage, Contact-Shell (rms)	1.20KV	1.60KV	1.10KV	1.20KV	1.20KV	1.20KV

#### Mechanical Specification

Mating Cycles	5000	Pin Contact	Brass, Gold Plated
Materials:		Socket Contact	Bronze, Gold Plated
Body	Brass, Nickel Plated	Insulation	PEEK
Temperature Range	-55°C to +250°C		

#### Mfrs. List Nos.

FGG.OB.302.CLAD52Z=381-7222	PHG.OB.307.CLLD52Z=381-7684	ECG.OB.304.CLV=926-7018
FGG.OB.303.CLAD52Z=381-7234	EGG.OB.302.CLL=381-7076	ECG.OB.305.CLV=926-7026
FGG.OB.304.CLAD52Z=381-7246	EGG.OB.303.CLL=381-7088	EPG.OB.302.HLN=431-5250
FGG.OB.305.CLAD52Z=381-7258	EGG.OB.304.CLL=381-7090	EPG.OB.303.HLN=431-5261
FGG.OB.306.CLAD52Z=381-7260	EGG.OB.305.CLL=381-7106	EPG.OB.304.HLN=431-5273
FGG.OB.307.CLAD52Z=381-7271	EGG.OB.306.CLL=381-7118	EPG.OB.305.HLN=431-5285
PHG.OB.302.CLLD52Z=381-7635	EGG.OB.307.CLL=381-7120	EPG.OB.306.HLN=431-5297
PHG.OB.303.CLLD52Z=381-7647	ECG.OB.302.CLV=926-6992	EPG.OB.307.HLN=431-5303
PHG.OB.305.CLLD52Z=381-7660	ECG.OB.303.CLV=926-7000	FGG.OB.742.DN=381-7295
PHG.OB.306.CLLD52Z=381-7672		

381817/406552

No. of Ways	Order Code	1+	5+	10+	50+	100+
<b>OB Straight Cable Plugs (collet 4.1-5.0mm)</b>						
2	381-7222					
3	381-7234					
4	381-7246					
5	381-7258					
6	381-7260					
7	381-7271					
<b>OB Straight Cable Sockets (collet 4.1-5.0mm)</b>						
2	381-7635					
3	381-7647					
4	381-7659					
5	381-7660					
6	381-7672					
7	381-7684					
<b>OB Panel Sockets</b>						
2	381-7076					
3	381-7088					
4	381-7090					
5	381-7106					
6	381-7118					
7	381-7120					
<b>OB PCB 90° Panel Sockets</b>						
2	926-6992					
3	926-7000					
4	926-7018					
5	926-7026					
<b>OB RA PCB Mount Panel Sockets - Type EPG</b>						
2	431-5250					
3	431-5261					
4	431-5273					
5	431-5285					
6	431-5297					
7	431-5303					
<b>OB Collets</b>						
Size(mm)						
3.1-4.0	381-7295					



- 9.5mm diameter body
- Environmentally sealed versions of OB series
- Electrical and mechanical specification identical to OB series
- IP66 rating when mated (IP68 with potting of rear termination)

Temperature Range- IP66 connectors -50°C to +200°C  
Temperature Range- IP 68 connectors -20°C to +80°C

#### Mfrs. List Nos.

FGG.OK.302.CLAC45Z=838-7036	FGG.OK.305.CLAC45Z=838-7060	EGG.OK.304.CLL=838-7460
FGG.OK.303.CLAC45Z=838-7044	EGG.OK.302.CLL=838-7435	EGG.OK.305.CLL=838-7478
FGG.OK.304.CLAC45Z=838-7052	EGG.OK.303.CLL=838-7443	

381818/406553

No. of Ways	Order Code	1+	5+	10+	50+	100+
<b>OK Straight Cable Plugs- IP66 (collet 4.1-4.5 mm)</b>						
2	838-7036					
3	838-7044					
4	838-7052					
5	838-7060					
<b>OK Panel Sockets- IP66</b>						
2	838-7435					
3	838-7443					
4	838-7460					
5	838-7478					

### 1B Series



Type EPG

	3 Way	4 Way	6 Way	7 Way	8 Way	10 Way
Current Rating	12A	10A	7A	5A	5A	2.5A
Test Voltage	1.3Kv	0.9Kv	0.7Kv	0.7Kv	0.7Kv	0.5Kv
Voltage rating DC	600V RMS	900V RMS	660V RMS	660V RMS	600V RMS	300V RMS
Voltage rating AC	420V	630V	460V	460V	400V	200V
Contact Resistance	2.8mΩ	4.1mΩ	5.6mΩ	5.6mΩ	5.6mΩ	7.5mΩ
Dielectric Strength	19	19	19	19	19	19
Contact Dia mm	0.3	0.9	0.7	0.7	0.7	0.5
Max Wire Size - Solid	20AWG	22AWG	22AWG	22AWG	22AWG	28AWG
Max Wire Size - Stranded	20AWG	22AWG	22AWG	22AWG	22AWG	30AWG

Mating Cycles	5000	Socket Contact Mat	Bronze
Body Mat	Brass	Contact Plating	Gold
Body Plating	Nickel	Insulation Mat	PEEK
Pin Contact Mat	Brass	Temperature Range	-55°C to +250°C

#### Mfrs. List No.

FGG.1B.303.CLAD62Z=381-7301	PHG.1B.307.CLLD62Z=381-7726	ECG.1B.303.CLV=926-7034
FGG.1B.304.CLAD62Z=381-7313	PHG.1B.308.CLLD62Z=381-7738	ECG.1B.304.CLV=926-7042
FGG.1B.305.CLAD62Z=431-5212	PHG.1B.310.CLLD62Z=381-7740	ECG.1B.306.CLV=926-7050
FGG.1B.306.CLAD62Z=381-7325	EGG.1B.303.CLL=381-7131	FGG.1B.742.DN=381-7362
FGG.1B.307.CLAD62Z=381-7337	EGG.1B.304.CLL=381-7143	FGG.1B.752.DN=381-7374
FGG.1B.308.CLAD62Z=381-7349	EGG.1B.305.CLL=431-5236	GMA.1B.035.DN=381-7416
FGG.1B.310.CLAD62Z=381-7350	EGG.1B.306.CLL=381-7155	GMA.1B.045.DN=381-7428
PHG.1B.303.CLLD62Z=381-7696	EGG.1B.307.CLL=381-7167	GMA.1B.054.DN=381-7430
PHG.1B.304.CLLD62Z=381-7702	EGG.1B.308.CLL=381-7179	GMA.1B.025.DA=381-7982
PHG.1B.305.CLLD62Z=431-5224	EGG.1B.310.CLL=381-7180	GMA.1B.025.DN=381-7994
PHG.1B.306.CLLD62Z=381-7714		

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No. Ways	Order Code	1+	5+	10+	50+	100+
<b>1B Straight Cable Plug - 5.1-6.0mm Collet</b>						
3	381-7301					
4	381-7313					
5	NEW 431-5212					
6	381-7325					
7	381-7337					
8	381-7349					
10	381-7350					
<b>1B Straight Cable Sockets 5.1-6.0mm Collet</b>						
3	381-7696					
4	381-7702					
5	NEW 431-5224					
6	381-7714					

No.	Order Code	1+	5+	10+	50+	100+
<b>1B Straight Cable Sockets 5.1-6.0mm Collet</b>						
7	381-7726					
8	381-7738					
10	381-7740					
<b>1B Panel Sockets</b>						
3	381-7131					
4	381-7143					
5	NEW 431-5236					
6	381-7155					
7	381-7167					
8	381-7179					
10	381-7180					
<b>1B RA PCB Panel Sockets - Type EPG</b>						
3	NEW 431-5315					
4	NEW 431-5327					
6	NEW 431-5340					
7	NEW 431-5352					
8	NEW 431-5364					
10	NEW 431-5376					
<b>1B PCB 90° Panel Sockets</b>						
3	926-7034					
4	926-7042					
6	926-7050					
<b>1B Collets</b>						
3.1-4.0mm	381-7362					
4.1-5.0mm	381-7374					
<b>1B Strain Relief Boots</b>						
3.5-3.9mm Black	381-7416					
4.5-5.0mm Black	381-7428					
5.4-6.0mm Black	381-7430					
2.5-2.9mm Blue	381-7982					
2.5-2.9mm Black	381-7994					

### Lemo 1K Series



- 12mm diameter body
- Environmentally sealed versions of 1B series
- Electrical and mechanical specification identical to 1B series
- IP66 rating when mated (IP68 with potting of rear termination)

Temperature Range- IP66 connectors -50°C to +200°C  
 Temperature Range- IP 68 connectors -20°C to +80°C

Mftrs. List No.

FGG.1K.303.CLAC55Z=838-7222	FGG.1K.307.CLAC55Z=838-7265	EGG.1K.305.CLL=838-7516
FGG.1K.304.CLAC55Z=838-7230	PHG.1K.306.CLLC55Z=838-7303	EGG.1K.306.CLL=838-7524
FGG.1K.305.CLAC55Z=838-7249	EGG.1K.303.CLL=838-7486	EGG.1K.307.CLL=838-7532
FGG.1K.306.CLAC55Z=838-7257	EGG.1K.304.CLL=838-7508	

381820/406556

No. of Ways	Order Code	1+	5+	10+	50+	100+
<b>1K Straight Cable Plugs- IP66 (collet 5.1-5.5 mm)</b>						
3	838-7222					
4	838-7230					
5	838-7249					
6	838-7257					
7	838-7265					
<b>1K Straight Cable Sockets- IP66 (collet 5.1-5.5mm)</b>						
6	838-7303					
<b>1K Panel Sockets- IP66</b>						
3	838-7486					
4	838-7508					
5	838-7516					
6	838-7524					
7	838-7532					



### TROUBLESHOOTING TIPS

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### 2B Series



- 15mm diameter body
- Larger load capacity than 0B and 1B connector series
- Push-pull self-latching system offers ease-of use, while preventing damage to contacts
- Multiple keyways prevent accidental cross mating

#### Electrical Specification

	3 Way	4 Way	5 Way	6 Way	7 Way
Current Rating	17A	15A	14A	12A	11A
Test Voltage, Contact-Contact (rms)	2.40 KV	1.85 KV	1.75 KV	1.35 KV	1.75 KV
Test Voltage, Contact-Shell (rms)	1.85 KV	1.85 KV	1.60 KV	1.45 KV	1.60 KV
Max Wire Size	16 AWG	20 AWG	20 AWG	20 AWG	20 AWG

	8 Way	10 Way	12 Way	14 Way	19 Way
Current Rating	10A	8A	7A	6.5A	5A
Test Voltage, Contact-Contact (rms)	2.40 KV	1.85 KV	1.75 KV	1.35 KV	1.75 KV
Test Voltage, Contact-Shell (rms)	1.85 KV	1.85 KV	1.60 KV	1.45 KV	1.60 KV
Max Wire Size	22 AWG	22 AWG	22 AWG	22 AWG	22 AWG

#### Mechanical Specification

Mating Cycles	5000	Socket Contact	Bronze, Gold Plated
Materials:		Insulation	PEEK
Body	Brass, Chrome Plated	Temperature Range	-55°C to +250°C
Pin Contact	Brass, Gold Plated		

Mftrs. List No.

FGG.2B.303.CLAD92Z=838-6633	PHG.2B.304.CLLD92Z=838-6749	EGG.2B.306.CLL=838-6900
FGG.2B.304.CLAD92Z=838-6641	PHG.2B.306.CLLD92Z=838-6765	EGG.2B.307.CLL=838-6919
FGG.2B.305.CLAD92Z=838-6650	PHG.2B.307.CLLD92Z=838-6773	EGG.2B.308.CLL=838-6927
FGG.2B.306.CLAD92Z=838-6668	PHG.2B.308.CLLD92Z=838-6781	EGG.2B.310.CLL=838-6935
FGG.2B.307.CLAD92Z=838-6676	PHG.2B.310.CLLD92Z=838-6790	EGG.2B.312.CLL=838-6943
FGG.2B.308.CLAD92Z=838-6684	PHG.2B.312.CLLD92Z=838-6803	EGG.2B.314.CLL=838-6951
FGG.2B.310.CLAD92Z=838-6692	PHG.2B.314.CLLD92Z=838-6811	EGG.2B.319.CLL=838-6960
FGG.2B.312.CLAD92Z=838-6706	PHG.2B.319.CLLD92Z=838-6820	FGG.2B.752.DNP=838-6838
FGG.2B.314.CLAD92Z=838-6714	EGG.2B.303.CLL=838-6870	FGG.2B.762.DN=838-6846
FGG.2B.319.CLAD92Z=838-6722	EGG.2B.304.CLL=838-6889	FGG.2B.772.DN=838-6854
PHG.2B.303.CLLD92Z=838-6730	EGG.2B.305.CLL=838-6897	FGG.2B.772.DN=838-6854

381821

No. of Ways	Order Code	1+	5+	10+	50+	100+
<b>2B Straight Cable Plugs (collet 5.1-6.0mm)</b>						
3	838-6633					
4	838-6641					
5	838-6650					
6	838-6668					
7	838-6676					
8	838-6684					
10	838-6692					
12	838-6706					
14	838-6714					
19	838-6722					
<b>2B Straight Cable Sockets (collet 5.1-6.0mm)</b>						
3	838-6730					
4	838-6749					
6	838-6765					
7	838-6773					
8	838-6781					
10	838-6790					
12	838-6803					
14	838-6811					
19	838-6820					
<b>2B Panel Sockets</b>						
3	838-6870					
4	838-6889					
5	838-6897					
6	838-6900					
7	838-6919					
8	838-6927					
10	838-6935					
12	838-6943					
14	838-6951					
19	838-6960					
<b>2B Collets</b>						
<b>Size(mm)</b>						
4.2-5.2	838-6838					
5.1-6	838-6846					
6.1-7	838-6854					
7.1-8	838-6862					

# Push/Pull Connectors - continued

## Redel 1P Series



### Lemo Strain Relief Boots



● For sizes 00,0B,0K,1B,1K and 2B

381841/406557

Mfrs. List No.	Cable Dia. (mm)	Order Code	1+	5+	10+	50+	100+
<b>Blue Boots, For 00 Series</b>							
GMD.00.028.DA	2.8-3.1	381-7891	●				
<b>Black Boots, For 0B/0K Series</b>							
GMA.0B.025.DN	2.5-2.9	381-7386	●				
GMA.0B.035.DN	3.5-3.9	381-7398	●				
GMA.0B.045.DN	4.5-5.2	381-7404	●				
<b>Blue Boots, For 0B/0K Series</b>							
GMA.0B.035.DA	3.5-3.9	838-7877	●				
<b>Red Boots, For 0B/0K Series</b>							
GMA.0B.045.DR	4.5-5.2	838-7907	●				
<b>Black Boots, For 1B/1K Series</b>							
GMA.1B.025.DN	2.5-2.9	381-7994	●				
GMA.1B.035.DN	3.5-3.9	381-7416	●				
GMA.1B.045.DN	4.5-5.0	381-7428	●				
GMA.1B.054.DN	5.4-6.0	381-7430	●				
<b>Blue Boots, For 1B/1K Series</b>							
GMA.1B.054.DA	5.4-6.0	838-7958	●				
<b>Red Boots, For 1B/1K Series</b>							
GMA.1B.054.DR	5.4-6.0	838-7966	●				
<b>Black Boots, For 2B Series</b>							
GMA.2B.060.DN	6.0-6.5	838-6978	●				
GMA.2B.070.DN	7.0-7.7	838-6994	●				
GMA.2B.080.DN	7.8-8.8	838-7010	●				



- Solder termination
- Available with 3 collet sizes

- REDEL Self-Latching Push-Pull system for quick and easy mating and unmating
- Provides security against vibration shock and cable pull
- Top quality lightweight and durable materials
- Can be sterilised by gas or steam
- Gold plated over copper and nickel contacts

	2 Way	4 Way	5 Way	8 Way
Current Rating	10A	8A	7A	5A
Voltage Operating (rms)	400V	400V	350V	350V
Voltage Test (rms)	1.2 kV	1.2 kV	1.05 kV	1.05 kV
Contact Resistance	≤3.5 mΩ	≤4.5 mΩ	≤4.5 mΩ	≤6.5 mΩ
Max Wire Size	20 AWG	22 AWG	22 AWG	26 AWG
Insulation Resistance	≥10 <sup>12</sup> Ω	Contact Material	Female - Bronze	
Mating Cycles	1000	Contact Plating	Male - Brass	
Flammability	UL94V-0	Temperature Range	Gold over Nickel over copper	
Housing Material	Polysulphone		-50°C to +150°C	
Insulation Material	PEEK			

Mfrs. List Nos.

PAG.M0.2GL.AC39G=381-7441	PAG.M0.5GL.AC65G=381-7544	PRG.M0.8GL.LC65G=838-7699
PAG.M0.2GL.AC39N=381-7453	PAG.M0.5GL.AC65N=381-7556	PKG.M0.2GL.LG=381-7751
PAG.M0.2GL.AC52N=381-7465	PAG.M0.8GL.AC52G=381-7568	PKG.M0.2GL.LN=381-7763
PAG.M0.2GL.AC52G=381-7477	PAG.M0.8GL.AC65G=381-7581	PKG.M0.4GL.LG=381-7775
PAG.M0.4GL.AC39G=381-7489	PAG.M0.8GL.AC65N=381-7593	PKG.M0.4GL.LN=381-7787
PAG.M0.4GL.AC52N=381-7507	PRG.M0.2GL.LC39G=838-7540	PKG.M0.5GL.LG=381-7799
PAG.M0.4GL.AC52G=381-7519	PRG.M0.2GL.LC52G=838-7567	PKG.M0.5GL.LN=381-7805
PAG.M0.5GL.AC52G=381-7520	PRG.M0.4GL.LC52N=838-7613	PKG.M0.8GL.LG=381-7817
PAG.M0.5GL.AC52N=381-7532	PRG.M0.5GL.LC52N=838-7648	PKG.M0.8GL.LN=381-7829

381822

No.	Ways	Colour	Order Code	1+	5+	10+	50+	100+
<b>Straight plug with Cable Collet</b>								
<b>2.7-3.9mm Collet</b>								
2		Grey	381-7441	●				
2		Black	381-7453	●				
<b>4.0-5.2mm Collet</b>								
2		Grey	381-7477	●				
2		Black	381-7465	●				
<b>2.7-3.9mm Collet</b>								
4		Grey	381-7489	●				
<b>4.0-5.2mm Collet</b>								
4		Grey	381-7519	●				
4		Black	381-7507	●				
<b>4.0-5.2mm Collet</b>								
5		Grey	381-7520	●				
5		Black	381-7532	●				
<b>5.3-6.5mm Collet</b>								
5		Black	381-7556	●				
<b>4.0-5.2mm Collet</b>								
8		Grey	381-7568	●				
<b>5.3-6.5mm Collet</b>								
8		Grey	381-7581	●				
8		Black	381-7593	●				
<b>Straight socket with Cable Collet</b>								
<b>2.7-3.9mm Collet</b>								
2		Grey	838-7540	●				
<b>4.0-5.2mm Collet</b>								
2		Grey	838-7567	●				
<b>4.0-5.2mm Collet</b>								
4		Black	838-7613	●				
<b>4.0-5.2mm Collet</b>								
5		Black	838-7648	●				
<b>5.3-6.5mm Collet</b>								
8		Grey	838-7699	●				
<b>Panel Socket</b>								
2		Grey	381-7751	●				
2		Black	381-7763	●				
4		Grey	381-7775	●				
4		Black	381-7787	●				
5		Grey	381-7799	●				
5		Black	381-7805	●				
8		Grey	381-7817	●				
8		Black	381-7829	●				

### Lemo 0B,0K,1B,1K and 2B Series Accessories



- For sizes 00,0B,0K,1B,1K and 2B

381609/406558

Mfrs. List No.	To Fit Series	Order Code	1+	5+	10+	50+	100+
<b>Dust Caps</b>							
<b>Push Fit Plug Cap- for in-line plugs</b>							
BFG.0B.100.PCSG	0B/0S	381-6904	●				
BFG.1B.100.PCSG	1B/1S	381-6916	●				
BFG.2B.100.PCSG	2B	838-7710	●				
<b>Push Fit Socket Cap- for in-line sockets</b>							
BRA.0B.200.PCSG	0B/0K	381-6930	●				
BRA.1B.200.PCSG	1B/1S	381-6941	●				
BRA.2B.200.PCSG	2B	838-7729	●				
<b>Spring Socket Cap- for panel mount sockets</b>							
BRR.0S.200.PZSG	0B/0S	381-6953	●				
BRR.1S.200.PZSG	1B/1S	381-6965	●				
BRR.2S.200.PZSG	2B	838-7737	●				
<b>Earthing Washers</b>							
GCA.00.255.LT	00	381-8093	●				
GCA.0S.255.LT	0B/0S	381-8100	●				
GCA.1S.255.LT	1B/1S	381-8111	●				
GCA.2S.255.LT	2B	838-7745	●				

The first online technical portal for design engineers  
Log on, research, refine and design



## Redel XP Series

Plastic - Push-Pull



**NEW**

- REDEL Self-Latching Push-Pull system for quick and easy mating and un-mating
- Plastic shell made of proprietary sulfone
- Blind mating, scoop proof
- Extended resistance to sterilisation
- Hand grip with enhanced ergonomics
- Increased shock resistance

626704

No. of Contacts	Outer Shell Colour	Mfrs. List No.	Order Code	1+	5+	10+	25+
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### Plug - Male to Solder Contacts

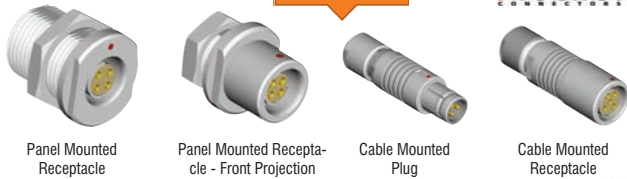
8	Blue	XAN.M08.GLA.6A	186-6383	●			
8	Red	XAN.M08.GLA.6R	186-6384	●			
8	Grey	XAN.M08.GLA.6G	186-6385	●			
8	Black	XAN.M08.GLA.6N	186-6386	●			
13	Blue	XAN.M13.GLA.6A	186-6387	●			
13	Red	XAN.M13.GLA.6R	186-6388	●			
13	Grey	XAN.M13.GLA.6G	186-6389	●			
13	Black	XAN.M13.GLA.6N	186-6390	●			
22	Blue	XAN.M22.GLA.6A	186-6391	●			
22	Red	XAN.M22.GLA.6R	186-6392	●			
22	Grey	XAN.M22.GLA.6G	186-6393	●			
22	Black	XAN.M22.GLA.6N	186-6395	●			

### Panel Socket - Female to Solder Contacts

8	Blue	XKN.M08.GLLA	186-6396	●			
8	Red	XKN.M08.GLLR	186-6397	●			
8	Grey	XKN.M08.GLLG	186-6398	●			
8	Black	XKN.M08.GLLN	186-6399	●			
13	Blue	XKN.M13.GLLA	186-6401	●			
13	Red	XKN.M13.GLLR	186-6402	●			
13	Grey	XKN.M13.GLLG	186-6403	●			
13	Black	XKN.M13.GLLN	186-6404	●			
22	Blue	XKN.M22.GLLA	186-6405	●			
22	Red	XKN.M22.GLLR	186-6406	●			
22	Grey	XKN.M22.GLLG	186-6407	●			
22	Black	XKN.M22.GLLN	186-6408	●			

## IP68 Core Series

**NEW**



625905

Number of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
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### Cable Mounted Plugs - S Body Style - Push-Pull

<b>Shell Size 102 - Dia. = 10mm, Length = 35mm</b>						
3	S 102 A052-130+	186-6196	●			
5	S 102 A054-130+	186-6197	●			
7	S 102 A056-130+	186-6198	●			

<b>Shell Size 103 - Dia. = 13mm, Length = 43mm</b>						
5	S 103 A054-130+	186-6121	●			
7	S 103 A057-130+	186-6200	●			

<b>Shell Size 1031 - Dia. = 13.5mm, Length = 46mm</b>						
10	S 1031 A010-130+	186-6122	●			
12	S 1031 A012-130+	186-6123	●			

<b>Shell Size 104 - Dia. = 16mm, Length = 50mm</b>						
9	S 104 A055-130+	186-6124	●			
11	S 104 A056-130+	186-6125	●			
16	S 104 A086-130+	186-6127	●			
19	S 104 A092-130+	186-6128	●			

### Cable Mounted Receptacle - KE Body Style

<b>Shell Size 102 - Dia. = 10mm, Length = 35mm</b>						
3	KE 102 052-130+	186-6129	●			
5	KE 102 A054-130+	186-6130	●			
7	KE 102 A056-130+	186-6131	●			

<b>Shell Size 103 - Dia. = 13mm, Length = 43mm</b>						
5	KE 103 A054-130+	186-6132	●			
7	KE 103 A057-130+	186-6133	●			

Number of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
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<b>Shell Size 1031 - Dia. = 13.5mm, Length = 46mm</b>						
10	KE 1031 A010-130+	186-6134	●			
12	KE 1031 A012-130+	186-6135	●			

<b>Shell Size 104 - Dia. = 16mm, Length = 50mm</b>						
9	KE 104 A055-130+	186-6136	●			
11	KE 104 A056-130+	186-6137	●			
16	KE 104 A086-130+	186-6139	●			
19	KE 104 A092-130+	186-6141	●			

### Panel Mounted Receptacle - DEU Body Style

<b>Shell Size 102 - Thread Dia. = 9 x 0.5mm, Length = 20mm</b>						
3	DEU 102 A052-130	186-6142	●			
5	DEU 102 A054-130	186-6143	●			
7	DEU 102 A056-130	186-6144	●			

<b>Shell Size 103 - Thread Dia. = 14 x 1mm, Length = 23mm</b>						
5	DEU 103 A054-130	186-6145	●			
7	DEU 103 A057-130	186-6146	●			

<b>Shell Size 1031 - Thread Dia. = 14 x 1mm, Length = 25mm</b>						
10	DEU 1031 A010-130	186-6147	●			
12	DEU 1031 A012-130	186-6148	●			

<b>Shell Size 104 - Thread Dia. = 16 x 1mm, Length = 25mm</b>						
9	DEU 104 A055-130	186-6149	●			
11	DEU 104 A056-130	186-6150	●			
16	DEU 104 A086-130	186-6152	●			
19	DEU 104 A092-130	186-6153	●			

### Panel Mounted Receptacle - DBEU with Front Projection Body Style

<b>Shell Size 102 - Thread Dia. = 9 x 0.5mm, Length = 20mm</b>						
3	DBEU 102 A052-130	186-6154	●			
5	DBEU 102 A054-130	186-6155	●			
7	DBEU 102 A056-130	186-6156	●			

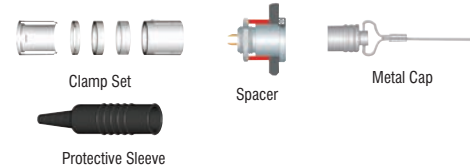
<b>Shell Size 103 - Thread Dia. = 14 x 1mm, Length = 23mm</b>						
5	DBEU 103 A054-130	186-6157	●			
7	DBEU 103 A057-130	186-6158	●			

<b>Shell Size 1031 - Thread Dia. = 14 x 1mm, Length = 24mm</b>						
10	DBEU 1031 A010-130	186-6160	●			
12	DBEU 1031 A012-130	186-6161	●			

<b>Shell Size 104 - Thread Dia. = 16 x 1mm, Length = 30mm</b>						
9	DBEU 104 A055-130	186-6162	●			
11	DBEU 104 A056-130	186-6164	●			
16	DBEU 104 A086-130	186-6165	●			
19	DBEU 104 A092-130	186-6166	●			

## Multipole Core Series

Accessories



**NEW**

626020

Cable Dia. Range	Size	Mfrs. List No.	Order Code	1+	10+	25+
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### E - Environmental Cable Clamp Sets

2.6 - 3.1mm	102	E31102.2/3.1+B	965-091	●		
3.1 - 3.6mm	102	E31102.2/3.6+B	965-108	●		
3.6 - 4.1mm	102	E31102.2/4.1+B	965-110	●		
4.1 - 4.3mm	102	E31102.2/4.3+B	965-121	●		
3.2 - 4.2mm	103	E31103.2/4.2+B	965-200	●		
3.2 - 4.7mm	103	E31103.2/4.7+B	965-212	●		
3.2 - 5.2mm	103	E31103.2/5.2+B	965-224	●		
3.2 - 5.7mm	103	E31103.2/5.7+B	965-236	●		
5.7 - 6.2mm	103	E31 103.2/6.2+B	186-6159	●		
3.7 - 4.2mm	1031	E3 1031.2/4.2	186-6167	●		
4.2 - 4.7mm	1031	E3 1031.2/4.7	186-6168	●		
4.7 - 5.2mm	1031	E3 1031.2/5.2	186-6169	●		
5.2 - 5.7mm	1031	E3 1031.2/5.7	186-6170	●		
5.7 - 6.2mm	1031	E3 1031.2/6.2	186-6171	●		
6.2 - 6.7mm	1031	E3 1031.2/6.7	186-6172	●		
5.7 - 6.7mm	104	E3 104.2/6.7+B	186-6173	●		
6.7 - 7.7mm	104	E3 104.2/7.7+B	186-6174	●		
7.7 - 8.7mm	104	E3 104.2/8.7+B	186-6176	●		
6.7mm	104	E3 104.2/6.7+C	186-6177	●		
7.7mm	104	E3 104.2/7.7+C	186-6178	●		
8.7mm	104	E3 104.2/8.7+C	186-6179	●		

### Spacers for DEE, DEU and DKE Series

102 Series	102.550	186-6180	●			
103 Series	103.550	186-6181	●			
104 Series	104.550	186-6182	●			

# Push/Pull Connectors - continued

## Multipole Core Series - continued

### Accessories - continued

Cable Dia.				Price Each		
Range	Size	Mftrs. List No.	Order Code	1+	10+	25+
<b>Metal Caps - Natural Chrome finish</b>						
<b>For Plugs</b>						
102 Series		102.1948	186-6201	●		
103 Series		103.2274	186-6183	●		
1031 Series		1031.825	186-6184	●		
104 Series		104.715	186-6185	●		
<b>For Receptacles</b>						
102 Series		102.1947	811-5133	●		
103 Series		103.2273	186-6186	●		
1031 Series		1031.824	186-6188	●		
104 Series		104.714	186-6189	●		

### Protective Sleeves - IP68

#### S, SC and SOV Series

102 Series - Cable Dia. 1.8 to 4.5mm	102.785	965-376	●		
103 Series - Cable Dia. 3 to 6.5mm	103.861	965-388	●		
1031 Series - Cable Dia. 3 to 6.5mm	1031.855	186-6190	●		
104 Series - Cable Dia. 4 to 8.5mm	104.861	186-6191	●		

#### K and KE Series

102 Series - Cable Dia. 1.8 to 4.5mm	102.786	186-6192	●		
103 Series - Cable Dia. 3 to 6.5mm	103.886	186-6193	●		
1031 Series - Cable Dia. 3 to 6.5mm	1031.860	186-6194	●		
104 Series - Cable Dia. 4 to 8.5mm	104.862	186-6195	●		

## Miniature Circular '440' Series

### Push-Pull Locking



- Miniature connector with Push-Pull lock
- EMC shielded
- IP67

No. of Ways	3 DIN	4	5	6 DIN	7	8 DIN	12	14	19
Current rating:	7A	6A	6A	5A	5A	5A	3A	3A	3A
Rated voltage:	250V	250V	250V	125V	125V	60V	60V	60V	60V
Test Voltage:	1500V	1500V	1500V	800V	800V	500V	500V	500V	500V
Wire gauge max mm <sup>2</sup> :	0.75								
Wire gauge max AWG:	20 (3-8 Ways)								
Termination:	Solder								
Contact Resistance:	≤3mΩ								
Insulation Resistance:	≥MΩ								
Max Cable Dia mm:	8.0MΩ								
IP Rating:	IPIP67								
Mating Cycles:	≥1000								
Operating temperature range:	-25°C to +85°C								
Pin Contacts:	Brass Plated								
Socket Contacts:	Bronze Plated								

246865

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+
<b>Male Cable Connector, 4-8mm Cable Entry</b>					
3 DIN	99-4805-00-03	177-8817	●		
4	99-4809-00-04	177-8818	●		
5	99-4813-00-05	177-8819	●		
6 DIN	440 99 4817 00 06	112-2530	●		
7	99-4825-00-07	177-8820	●		
8 DIN	99-4829-00-08	177-8822	●		
12	440 99 4833 00 12	112-2531	●		
14	99-4837-00-14	177-8823	●		
19	99-4841-00-19	177-8824	●		
<b>Female Cable Connector, 4-8mm Cable Entry</b>					
8 DIN	99-4830-00-08	177-8830	●		
12	440 99 4834 00 12	112-2534	●		
14	99-4838-00-14	177-8831	●		
19	99-4842-00-19	177-8832	●		
<b>Male Panel Connector, Rear Fastening</b>					
3 DIN	09-4807-00-03	177-8834	●		
8 DIN	09-4831-00-08	177-8839	●		
12	440 09 4835 00 12	112-2537	●		
19	09-4843-00-19	177-8841	●		
<b>Male Panel Connector, Front Fastening</b>					
12	09-4835-81-12	177-8849	●		

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+
<b>Female Panel Connector, Rear Fastening</b>					
3 DIN	09-4808-00-03	177-8852	●		
4	09-4812-00-04	177-8853	●		
5	09-4816-00-05	177-8854	●		
6 DIN	440 09 4820 00 06	112-2542	●		
7	09-4828-00-07	177-8855	●		
8 DIN	09-4832-00-08	177-8856	●		
12	09-4836-00-12	177-8858	●		
14	09-4840-00-14	177-8859	●		
19	09-4844-00-19	177-8860	●		
<b>Female Panel Connector, Front Fastening</b>					
5	09-4816-81-05	177-8863	●		
19	09-4844-81-19	177-8871	●		

## Miniature Push Pull with Ground Function

### MXR



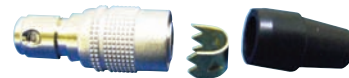
- Single action Push-Pull
- Audible click on latching
- Lightweight
- Integral cable clamp
- Small size
- Solder contacts

Shell Aluminium Alloy, Nickel plated Male Contacts Brass, Gold plated  
Insulation Black PBT (Polybutylene terephthalate) resin (UL94V-0) Female Contacts Brass, part Gold plated

No. of Mftrs. Ways List No.	Order Code	1+	25+	50+	100+	250+
<b>Free Plug</b>						
8	MXR-8P-8P(71)	107-7731	●			
<b>Chassis Socket</b>						
8	MXR-8RA-8S(71)	107-7732	●			

## Push Pull Connector

### HR10A Series



**NEW**

The HR10A series connectors are push-pull coupling type micro-connectors. They offer light weight and assure high reliability and durability.

- Space saving
- Crimp wire termination
- Current rating: 2A
- Contact plating: Gold

No. of Mftrs. Ways List No.	Order Code	1+	10+	20+	40+
<b>Shell size 7 - Plug with pin contacts</b>					
4	HR10A-7P-4P(73)	182-6966	●		
5	HR10A-7P-5P(73)	NEW 206-1621	●		
6	HR10A-7P-6P(73)	182-6969	●		
<b>Shell size 7 - Plug with socket contacts</b>					
4	HR10A-7P-4S(73)	182-6968	●		
6	HR10A-7P-6S(73)	182-6970	●		
<b>Shell size 7 - Receptacle with socket contacts</b>					
4	HR10A-7R-4S(73)	182-6971	●		
5	HR10A-7R-5S(73)	NEW 206-1622	●		
6	HR10A-7R-6S(73)	182-6973	●		
<b>Shell size 7 - Receptacle with pin contacts</b>					
4	HR10A-7R-4P(73)	182-6972	●		
6	HR10A-7R-6P(73)	182-6974	●		
<b>Shell size 10 - Plug with pin contacts</b>					
10	HR10A-10P-10P(73)	182-6981	●		
12	HR10A-10P-12P(73)	182-6975	●		
<b>Shell size 10 - Plug with socket contacts</b>					
10	HR10A-10P-10S(73)	182-6982	●		
12	HR10A-10P-12S(73)	182-6976	●		
<b>Shell size 10 - Receptacle with socket contacts</b>					
10	HR10A-10R-10S(71)	182-6983	●		
12	HR10A-10R-12S(71)	182-6977	●		
<b>Shell size 10 - Receptacle with pin contacts</b>					
10	HR10A-10R-10P(73)	182-6984	●		
12	HR10A-10R-12P(73)	182-6978	●		

618764

## Miniature Rugged Push Pull Connectors

Amphenol

### Terrapin Series



NEW

This is a miniature series of circular push-pull connectors. Within a rugged shell design Terrapin offers superior EMC performance and high environmental sealing to IP68.

- Working voltage: 400 VAC
- Mating durability: 2000 cycles min.
- Shell material: Brass
- Shell plating: Black silver

637290

No. of Ways	Shell Size	Mftrs. List No.	Order Code	1+	10+	25+	50+	Price Each
<b>Plug - Jam Nut - PC Tail</b>								
7	6	SCE2-B-76A06-07SN-001	186-3828	●				
14	7	SCE2-B-76A07-14SN-001	186-3829	●				
19	8	SCE2-B-76A08-19SN-001	186-3830	●				
<b>Plug - Jam Nut - Solder Buckets</b>								
7	6	SCE2-B-76A06-07SN-002	186-3831	●				
14	7	SCE2-B-76A07-14SN-002	186-3832	●				
19	8	SCE2-B-76A08-19SN-002	186-3833	●				
<b>Plug - In Line</b>								
7	6	SCE2-B-06K06-07SN	186-3841	●				
14	7	SCE2-B-06K07-14SN	186-3842	●				
19	8	SCE2-B-06K08-19SN	186-3843	●				
<b>Receptacle - Snatch</b>								
7	6	SCE2-B-01K06-07PN	186-3834	●				
14	7	SCE2-B-01K07-14PN	186-3835	●				
19	8	SCE2-B-01K08-19PN	186-3837	●				
<b>Receptacle - Latch</b>								
7	6	SCE2-B-L1K06-07PN	186-3838	●				
14	7	SCE2-B-L1K07-14PN	186-3839	●				
19	8	SCE2-B-L1K08-19PN	186-3840	●				
<b>Braid Retention Strap</b>								
		123GB-0799-0	186-3844	●				

## Industrial Circular Connectors

NEW

Amphenol

### ETCA 544 Series



- Push pull locking system
- IP67 rating
- Operating temperature range: -40°C to +125°C
- Mating operations machined contact: 1000 cycles
- Mating operations stamp rolled contacts: 250 cycles
- Shell and insulator material: Glass fibre thermoplastic
- Contact material: Copper Alloy
- Contact plating: Gold

The 544 series offers a range of plastic circular connectors for industrial applications including robotics, laboratory test equipment, transportation industry and tool interconnection.

637333

No. of Ways	Cable Diameter	Mftrs. List No.	Order Code	1+	10+	25+	Price Each
<b>Plug - Cable Mount</b>							
5	2mm to 6mm	5440 MDA 105 M	186-4715	●			
5	4mm to 8mm	5440 MDB 105 M	186-4716	●			
7	2mm to 6mm	5440 MDA 107 M	186-4717	●			
7	4mm to 8mm	5440 MDB 107 M	186-4718	●			
12	7mm to 12mm	5440 MDA 212 M	186-4719	●			
12	10mm to 14mm	5440 MDB 212 M	186-4720	●			
19	7mm to 12mm	5440 MDA 219 M	186-4721	●			
19	10mm to 14mm	5440 MDB 219 M	186-4722	●			
27	9mm to 16mm	5440 MDA 327 M	186-4723	●			
27	13mm to 18mm	5440 MDB 327 M	186-4724	●			
<b>Receptacle - Panel Mount</b>							
5		5440 E 105 F	186-4709	●			
7		5440 E 107 F	186-4710	●			
12		5440 E 212 F	186-4711	●			
19		5440 E 219 F	186-4712	●			
27		5440 E 327 F	186-4714	●			
<b>Shell Size</b>							
<b>Dust Cap - Receptacle</b>							
1		5440 1 BM	186-4726	●			
2		5440 2 BM	186-4727	●			
3		5440 3 BM	186-4728	●			

No. of Ways	Cable Diameter	Mftrs. List No.	Order Code	1+	10+	25+	Price Each
<b>Dust Cap - Plug</b>							
1		5440 1 BE	186-4729	●			
2		5440 2 BE	186-4730	●			
3		5440 3 BE	186-4731	●			
<b>O-Ring Seal</b>							
1		5440 1 JT	186-4732	●			
2		5440 2 JT	186-4733	●			
3		5440 3 JT	186-4734	●			

Gender	Max. Insulation Diameter	Mftrs. List No.	Order Code	1+	5+	10+	Price Each
<b>Machined Contacts - Pack of 100</b>							
Socket	2.6mm	5440 020 F100	186-4735	●			
Pin	2.6mm	5440 020 M100	186-4736	●			
<b>Stamped Contact - Pack of 100</b>							
Socket	1.52mm	5440 220 F100	186-4738	●			
Pin	1.52mm	5440 220 M100	186-4739	●			
Socket	1.02mm	5440 320 F100	186-4740	●			
Pin	1.02mm	5440 320 M100	186-4741	●			

## Sensor / Actuator Connectors

### Waterproof M12 Connectors and Cable Assemblies

multicomp

NEW



- Current Rating - 2A or 5A
- Corrosion - 48 Hrs Salt Spray Contact
- IP68 Panel Mount Sockets / IP67 PVC Cable Assemblies
- Durability - 500 cycles min.
- Contacts - Copper Alloy, Gold plated
- Connector Material - Nylon + GF
- Black PVC Cable
- Connector Temperature Range = -40°C to +100°C
- Cable Temperature Range = -20°C to +80°C

625790

Current Rating	No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	50+	Price Each
<b>Rear Panel Mount Sockets, IP68</b>								
5A	3		186-0758	●				
5A	4		186-0759	●				
5A	5		186-0760	●				
2A	8		186-0761	●				
<b>Front Panel Mount Sockets, IP68</b>								
5A	3		186-0762	●				
5A	4		186-0763	●				
5A	5		186-0764	●				
2A	8		186-0765	●				
<b>Cable Assemblies, M12 Plug - Free End, Length = 1M, IP67</b>								
5A	3		186-0766	●				
5A	4		186-0767	●				
5A	5		186-0769	●				
2A	8		186-0771	●				
<b>Cable Assemblies, R/A, M12 Plug - Free End, Length = 1M, IP67</b>								
5A	3		186-0772	●				
5A	4		186-0773	●				
5A	5		186-0774	●				
2A	8		186-0775	●				

### Series 713 / 763

#### M12

binder



- M12 x 1 Round, Sensor connectors
- Plugs and couplings are delivered as kits
- M12x0.5 attachment nut

Contact mount material:	PUR coupling part, PA built-in part	Rated voltage VDE:	60VAC/75VDC
Spring contact material:	CuSn	Test voltage:	500VAC
Pin contact material:	CuZn	Volume resistance:	≥5mΩ
Housing Ingress Protection class:	IP67 (inserted)	Isolation resistance:	≤10 Ω
Current load capacity:	4A	Capacitance in operation:	3pF

239328



No. of Ways	Cable Entry	Mftrs. List No.	Order Code	1+	5+	10+	Price Each
<b>Plug, PA Housing, Metal Threaded Locking Ring</b>							
3	4-6mm	99-0429-07-04	177-8723	●			
4	4-6mm	99-0429-14-04	112-2451	●			
5	4-6mm	9904371405	112-2452	●			
8	6-8mm	99-0487-12-08	177-8724	●			

Series 713 / 763 - continued

M12 - continued

No. of Ways	Cable Entry	Mftrs. List No.	Order Code	Price Each		
				1+	5+	10+
<b>Plug, Metal Housing, EMI Shielding, Metal Locking Ring</b>						
4	4-6mm	99-1429-814-04	177-8726			
5	4-6mm	99-1437-814-05	177-8727			
8	6-8mm	99-1487-812-08	177-8728			
12	6-8mm	99-1491-812-12	177-8731			
<b>Plug, Metal Housing, EMI Shielding, Stainless Steel Locking Ring</b>						
4	6-8mm	99-1429-992-04	177-8732			
<b>Plug, R/A, PBT Housing, Metal Threaded Locking Ring</b>						
4	4-6mm	99-0429-24-04	112-2453			
5	6-8mm	99-0437-52-05	177-8736			
<b>Socket, PA Housing, Metal Threaded Locking Ring</b>						
3	4-6mm	99-0430-07-04	177-8741			
4	4-6mm	9904301404	112-2449			
5	4-6mm	9904361405	112-2450			
8	6-8mm	99-0486-12-08	177-8743			
12	6-8mm	99-0492-12-12	177-8744			
<b>Socket, Metal Housing, EMI Shielding, Metal Threaded Locking Ring</b>						
4	4-6mm	99-1430-814-04	177-8745			
5	4-6mm	99-1436-814-05	177-8746			
8	6-8mm	99-1486-812-08	177-8747			
12	6-8mm	99-1492-812-12	177-8748			
<b>Socket, R/A, PBT Housing, Metal Threaded Locking Ring</b>						
4	4-6mm	99-0430-24-04	177-8752			
5	4-6mm	99-0436-24-05	177-8753			
<b>Socket, R/A, Metal Housing, EMI Shielding, Metal Threaded Locking Ring</b>						
5	4-6mm	99-1436-824-05	177-8757			
<b>Panel Plug, Stainless Steel, Front Mounted, with 0.25mm<sup>2</sup> Wire</b>						
8	PG9	09-3481-00-08	177-8761			
<b>Panel Plug, Metal, Front Mounted, without Wire, Solder Contacts</b>						
4	PG9	09-3431-77-04	177-8763			
5	PG9	09-3441-77-05	177-8764			
8	PG9	09-3481-77-08	177-8765			
<b>Panel Socket, Metal, Pigtailed, with 0.25mm<sup>2</sup> Wire</b>						
8	PG9	09-3482-00-08	177-8769			

M12 Sensor Cables A-coded - Shielded

**NEW**



- 4A Rated current
- 250V Rated voltage
- IP67 Protection class
- 0.34mm<sup>2</sup> Core cross section
- Gold plated contacts
- Halogen-free PUR
- Operating Temp. = -25°C to +85°C
- UL Recognised

No. of Poles	Cable Length	Mftrs. List No.	Order Code	Price Each			
				1+	10+	25+	50+
<b>M12 Single-ended Straight Connectors - Male</b>							
3	1.5m	1906470150	188-9379				
3	3m	1906470300	188-9380				
3	5m	1906470500	188-9381				
4	1.5m	1906480150	188-9386				
4	3m	1906480300	188-9387				
4	5m	1906480500	188-9388				
<b>M12 Single-ended Straight Connectors - Female</b>							
3	1.5m	1867410150	188-9383				
3	3m	1867410300	188-9384				
3	5m	1867410500	188-9385				
4	1.5m	1812540150	188-9389				
4	3m	1812540300	188-9390				
4	5m	1812540500	188-9391				
<b>Double-ended Straight Connectors - M12 Male / M12 Female</b>							
3	1.5m	1058490150	188-9399				
3	3m	1058490300	188-9401				
3	5m	1058490500	188-9402				
4	1.5m	1058500150	188-9403				
4	3m	1058500300	188-9404				
4	5m	1058500500	188-9405				

LED Sensor Cables A-coded - 2 LED's

**NEW**



**NEW**

- 4A Rated current
- 250V Rated voltage
- IP67 Protection class
- 0.34mm<sup>2</sup> Core cross section
- Gold plated contacts
- Operating Temp. = -25°C to +85°C
- UL Recognised

No. of Poles	Cable Length	Mftrs. List No.	Order Code	Price Each			
				1+	10+	25+	50+
<b>M12 Single-ended Straight Connectors - Male - PUR Cable</b>							
3	1.5m	9457800150	188-9375				
4	1.5m	9456380150	188-9377				
<b>M12 Single-ended Straight Connectors - Male - PVC Cable</b>							
3	1.5m	1925460150	188-9376				
4	1.5m	1925470150	188-9378				
<b>Double-ended, Straight M12 Male - 90° Angled M12 Female - PVC Cable</b>							
3	1.5m	1925410150	188-9392				
3	3m	1925410300	188-9393				
3	5m	1925410500	188-9395				
4	1.5m	1925420150	188-9396				
4	3m	1925420300	188-9397				
4	5m	1925420500	188-9398				
<b>Double-ended, Straight M12 Male - 90° Angled M8 Female - PUR Cable</b>							
3	1.5m	9457760150	188-9406				
3	3m	9457760300	188-9407				
3	5m	9457760500	188-9408				
4	1.5m	1906430150	188-9409				
4	3m	1906430300	188-9410				
4	5m	1906430500	188-9411				

M23 Signal Transmission Connectors








**NEW**

- Used in industrial automation
- High reliability, >1000 mating cycles
- Operating temperature: -40°C to +125°C
- Protection: IP67 / IP69K as per EN 60529 when mated

Insert - Contact Table									
Number of Positions	6	7	9	12	16	17	19		
Number of Contacts	6	7	8	1	12	16	17	16	3
Contact ∅ (mm)	2	2	1	2	1	1	1	1	1.5

Description	Mftrs. List No.	Order Code	Price Each		
			1+	10+	25+
<b>Cable Connector Housings, 7-12mm Cable Dia.</b>					
Cable Connector	SAI-M23-GS-7/12	196-1163			
Coupling Connector	SAI-M23-KS-7/12	196-1164			
Cable Connector, R/A	SAIL-M23-GS-S-7/12	196-1165			
Coupling Connector, R/A	SAIL-M23-KSW-7/12	196-1166			
<b>Panel Mount Connector Housings, 3.2mm Mounting Holes</b>					
Front Panel Mount	SAIE-M23-S-VW	196-1167			
Knurled Nut	SAIE-M23-S-RM	196-1168			
Single Hole Mount	SAIE-M23-S-EM	196-1169			
Angled Mount	SAIE-M23-S-W	196-1170			
Back Panel Mount	SAIE-M23-S-HW	196-1171			
<b>Pin Inserts</b>					
6	SAI-M23-SE-6	196-1173			
7	SAI-M23-SE-7	196-1175			
9	SAI-M23-SE-9	196-1177			
12	SAI-M23-SE-12	196-1179			
16	SAI-M23-SE-16	196-1181			
17	SAI-M23-SE-17	196-1183			
19	SAI-M23-SE-19	196-1186			
<b>Socket Inserts</b>					
6	SAI-M23-BE-6	196-1174			
7	SAI-M23-BE-7	196-1176			
9	SAI-M23-BE-9	196-1178			
12	SAI-M23-BE-12	196-1180			

Description	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
<b>Socket Inserts</b>					
16	SAI-M23-BE-16	196-1182			
17	SAI-M23-BE-17	196-1185			
19	SAI-M23-BE-19	196-1187			

#### Crimp Contacts

Wire Size (mm <sup>2</sup> )	Mfrs. List No.	Order Code	1+	10+	50+
<b>Crimp Pin, ∅ = 1mm</b>					
0.08 - 0.56	SAI-M23-KSC-0.08/0.56	196-1188			
0.14 - 1.0	SAI-M23-KSC-0.14/1.00	196-1189			
1.0 - 1.5	SAI-M23-KSC-1.00-1.5	196-1190			
<b>Crimp Socket, ∅ = 1mm</b>					
0.08 - 0.56	SAI-M23-KBC-0.08/0.56	196-1191			
0.14 - 1.0	SAI-M23-KBC-0.34/1.00	196-1192			
1.0 - 1.5	SAI-M23-KBC-1.00-1.5	196-1193			
<b>Crimp Pin, ∅ = 1.5mm</b>					
0.14 - 1.0	SAI-M23-KSC-1.5-0.14-1	196-1194			
<b>Crimp Socket, ∅ = 1.5mm</b>					
0.14 - 0.56	SAI-M23-KBC-1.5-14-.56	196-1195			
0.56 - 1.0	SAI-M23-KBC-1.5-.56-1.0	196-1197			
<b>Crimp Pin, ∅ = 2mm</b>					
0.75 - 2.0	SAI-M23-KSC-2-0.75-2.0	196-1198			
<b>Crimp Socket, ∅ = 2mm</b>					
0.75 - 2.0	SAI-M23-KBC-2-0.75-2.0	196-1199			

### M23 Power Connectors



- Used in industrial automation
- High reliability, >1000 mating cycles
- Operating temperature: -40°C to +125°C
- Protection: IP67 / IP69K as per EN 60529 when mated



Insert - Contact Table			
Number of Positions	5 + PE	4 / 4	
Number of Contacts	6	4	4
Contact ∅ (mm)	2	1	2

638156

Description	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
<b>Cable Connector Housings, 7-12mm Cable Dia.</b>					
Cable Connector	SAI-M23-GS-L-7/12	196-1200			
Coupling Connector	SAI-M23-KS-L-7/12	196-1201			
Cable Connector, R/A	SAIL-M23-GSW-L-7/12	196-1203			
Coupling Connector, R/A	SAIL-M23-KSW-L-7/12	196-1204			
<b>Panel Mount Connector Housings, 3.2mm Mounting Holes</b>					
Front Panel Mount	SAIE-M23-L-VW	196-1205			
Knurled Nut	SAIE-M23-L-RM	196-1206			
Single Hole Mount	SAIE-M23-L-EM	196-1207			
Angled Mount	SAIE-M23-L-W	196-1208			
Back Panel Mount	SAIE-M23-L-HW	196-1209			

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+
<b>Pin Inserts</b>					
5 + PE	SAI-M23-SE-L-6	196-1210			
4 / 4	SAI-M23-SE-L-4/4	196-1212			
<b>Socket Inserts</b>					
5 + PE	SAI-M23-BE-L-6	196-1211			
4 / 4	SAI-M23-BE-4/3/PE	196-1213			

#### Crimp Contacts

Wire Size (mm <sup>2</sup> )	Mfrs. List No.	Order Code	1+	10+	50+
<b>Crimp Pin, ∅ = 1mm</b>					
0.25 - 1.0	SAI-M23-KSC-0.25-1.0	196-1215			
<b>Crimp Socket, ∅ = 1mm</b>					
0.25 - 1.0	SAI-M23-KBC-0.25/1.00	196-1216			

Description	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
<b>Crimp Pin, ∅ = 2mm</b>					
0.75 - 2.5	SAI-M23-KSC-L-0.75-2.5	196-1217			
2.5 - 4	SAI-M23-KSC-L-2.5-4.0	196-1218			
<b>Crimp Socket, ∅ = 2mm</b>					
0.75 - 2.5	SAI-M23-KBC-L-0.75-2.5	196-1219			
2.5 - 4	SAI-M23-KBC-L-2.5-4.0	196-1220			

### Crimp Tools SAI M23 Series



209-5419 (0.14 - 2.5MM<sup>2</sup>)      209-5418 (0.14 - 4.0MM<sup>2</sup>)



- Four mandrel crimping action
- Adjustment mechanism for crimping depth
- Large easy grip handles

Crimp Contacts	Crimp Tools			
	209-5418		209-5419	
	196-1191	196-1192	196-1188	196-1189
196-1194	196-1215	196-1190	196-1193	
196-1216	196-1217	196-1195	196-1197	
196-1218	196-1219	196-1198	196-1199	
196-1220				

656158

Wire Size	Mfrs. List No.	Order Code	1+
0.14 - 4.0mm <sup>2</sup>	1203840000	209-5418	
0.14 - 2.5mm <sup>2</sup>	1203960000	209-5419	

### M23 Circular Connectors



The Hirschmann M23 circular connectors are designed for signal transmission in servo motors and servo harnessing, measurement and control technology, and plant engineering. Available in coupler, connector and panel mount configurations that satisfy simple cable-to-cable and cable-to-machine requirements.

661655

No. of Ways	Mfrs. Contact List No.	Order Code	1+	10+	25+	50+
<b>Plug, Straight</b>						
12	Pin RSC-F-120/13,5	206-9627				
19	Pin RSC 190/9	206-9628				
6	Pin 0906 UMC 201	206-9629				
<b>Socket, Straight</b>						
12	Socket RKC 120/13,5	206-9630				
19	Socket RKC 190/13,5	206-9631				
<b>Socket, Right Angle</b>						
12	Socket RKCW 120/13,5	206-9632				
19	Socket RKCW 190/13,5	206-9633				
<b>PUR Cables (M23 to Free End)</b>						
No of Pins Length						
<b>Inline connectors</b>						
12	5 M	RKU 12-256/5M	206-9634			
12	10 M	RKU 12-256/10M	206-9636			
19	5 M	RKU 19-242/5M	206-9639			
19	10 M	RKU 19-242/10M	206-9640			
<b>Right Angle connectors</b>						
12	5 M	RKWU 12-256/5M	206-9637			
12	10 M	RKWU 12-256/10M	206-9638			
19	5 M	RKWU 19-242/5M	206-9641			
19	10 M	RKWU 19-242/10M	206-9642			

## TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at [farnell.com](https://www.farnell.com)

EPIC Circon M23



The new Epic Circon M23 connector is a high quality circular connector ideal for signal transmission and servo drive encoder feedback applications in the plastics, printing, analytical instrument, robotic, and machine tool industries, and any other industrial or commercial application where a compact, rugged connector is required. The connectors guarantee an excellent EMC shielding, increased safety against intrusion of water and a clear visible and tangible action when mating.

- Complies to the requirements of **DIN EN 61984**
- Quick and easy to assemble
- Highest protection against vibration, corrosion and EMI
- Protection class **IP68**
- Solder cup contacts available in 7, 8+1, 12 and 17 ways
- Easy and fast labelling of the connector through integrated marking system
- **UL, CSA and VDE** approved

Contact Configuration	7	8+1	12	17
Contact Diameter	2mm	1 & 2mm	1mm	1mm
Rated Current A	18	20	7	7
Rated Voltage V AC	150	150	150	50
Rated Impulse Voltage kV AC	4.0	2.5	2.5	0.8
Contact Resistance mΩ	<4	<4	<4	<4
Temperature range	-25°C to 125°C		Mating cycles	100
Protection	IP68 when mated		Housing	Zinc die cast nickel plated
Termination	Solder		Contacts	Brass - Gold plated

230218

Description	Mfrs. List No.	Order Code	Price Each		
			1+	10+	50+
<b>Cable Sockets / Plugs - Suitable for cable-to-cable &amp; cable-to-machine applications</b>					
Cable Socket, 7 way	44420037 + 73002752	143-7366			
Cable Plug, 8+1 way	44420037 + 73002740	143-7368			
Cable Plug, 12 way	44420037 + 73002720	143-7370			
Cable Socket, 12 way	44420037 + 73002716	143-7371			
Cable Plug, 17 way	44420037 + 73028500	143-7372			
Cable Socket, 17 way	44420037 + 73018000	143-7373			
<b>Cable Coupler Sockets / Plugs - for cable-to-cable applications</b>					
Cable Coupler Plug, 12 way	44420040 + 73002720	143-7378			
Cable Coupler Socket, 12 way	44420040 + 73002716	143-7381			
Cable Coupler Plug, 17 way	44420040 + 73028500	143-7382			
Cable Coupler Socket, 17 way	44420040 + 73018000	143-7383			
<b>Panel Mount Plugs / Sockets - Inserts can be inserted from the front or rear</b>					
Panel Mount Plug, 7 way	72004000 + 73002756	143-7384			
Panel Mount Plug, 8+1 way	72004000 + 73002740	143-7386			
Panel Mount Socket, 8+1 way	72004000 + 73002744	143-7387			
Panel Mount Plug, 12 way	72004000 + 73002720	143-7388			
Panel Mount Socket, 12 way	72004000 + 73002716	143-7389			
Panel Mount Plug, 17 way	72004000 + 73028500	143-7390			
Panel Mount Socket, 17 way	72004000 + 73018000	143-7391			
<b>90° Panel Mount Plugs - Patented swivel mechanism</b>					
90° Panel Mount Plug, 8+1 way	24420055 + 73002740	208-1354			
90° Panel Mount Plug, 12 way	24420055 + 73002720	208-1352			
90° Panel Mount Socket, 12 way	24420055 + 73002716	208-1355			
90° Panel Mount Plug, 17 way	24420055 + 73028500	208-1353			
<b>Dust Caps</b>					
Metal Screw Cap for Panel Mount Bases	75018110	143-7401			
Metal Screw Cap for Cable Coupler	75018010	143-7402			
Plastic Protection Cap for Cable Plug / Socket	75007710	143-7363			
Plastic Protection Cap for Coupler / Panel mount Base	75007810	143-7364			

IMPROVED BACK ORDER DELIVERY

Receive email updates with the exact status, due date and despatch information of all your back order items [farnell.com](http://farnell.com)

A Series



NEW

Amphenol's MotionGrade™ M23 products are ideally suited for advanced servo drive encoder feedback applications, packaging, robotic, printing, machine tool, medical & automation environments.

- EMI/RFI shielding
- Zinc Die-cat housings
- Brass, Nickel plated coupling nut
- PA66, UL94/V0 Inserts
- IP67
- RockSolid™ contact technology
- Brass, Gold plated contacts
- Contact Rating = 10A (12 way) / 9A (17 way)
- Voltage Rating = 160V (12 way) / 125V (17 way)
- Temperature Range = -20°C to +130°C
- ISO 9001/2000

660145

No. of Ways	Mfrs. Orientation	List No.	Order Code	Price Each			
				1+	10+	25+	50+
<b>Plug, Straight</b>							
12	E	MA1CAE1200	210-0189				
12	P	MA1CAP1200	210-0190				
17	E	MA1CAE1700	210-0191				
17	P	MA1CAP1700	210-0192				
<b>Plug, R/A</b>							
12	E	MA1EAE1200	210-0193				
12	P	MA1EAP1200	210-0194				
17	E	MA1EAE1700	210-0195				
17	P	MA1EAP1700	210-0196				
<b>Extension Plug</b>							
12	E	MA1JAE1200	210-0197				
12	P	MA1JAP1200	210-0199				
17	E	MA1JAE1700	210-0200				
17	P	MA1JAP1700	210-0201				
<b>Receptacle, Panel Mount</b>							
12	E	MA1LAE1200	210-0202				
12	P	MA1LAP1200	210-0203				
17	E	MA1LAE1700	210-0205				
17	P	MA1LAP1700	210-0206				
<b>Receptacle, Panel Mount, R/A</b>							
12	E	MA1RAE1200	210-0207				
12	P	MA1RAP1200	210-0208				
17	E	MA1RAE1700	210-0209				
17	P	MA1RAP1700	210-0210				
<b>Cord Grips</b>							
Cable Ø 4.5-7.5mm	MA3CG-S1	210-0227					
Cable Ø 7.5-11mm	MA3CG-S2	210-0229					
Cable Ø 11-15mm	MA3CG-S3	210-0231					
<b>Crimp Contact, Socket</b>				1+	10+	50+	100+
RockSolid™, 1mm	SC000013	210-0235					
Slit Machined, 1mm	SC000044	210-0239					
<b>Crimp Contact, Pin</b>							
Machined, 1mm	SC000035	210-0237					

MotionGrade™ M23 Power Solutions

B Series



NEW

Recept., Panel Mnt      Recept., Panel Mnt, R/A

- EMI/RFI shielding
- Zinc Die-cat housings
- Brass, Nickel plated coupling nut
- PA66, UL94/V0 Inserts
- IP67
- RockSolid™ contact technology
- Brass, Gold plated contacts
- Contact Rating = 28A (6 way) / 30A (8 / 9 way)
- Voltage Rating = 630V (power contacts) / 250V (signal contacts)
- Temperature Range = -20°C to +130°C
- ISO 9001/2000

660790

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	50+
-------------	-----------------	------------	----	-----	-----	-----

**Plug, Straight, Socket Contacts**

6	MB1CKN0600	210-0211	●			
8	MB1CKN0800	210-0212	●			
9	MB1CKN0900	210-0213	●			

**Plug, R/A, Socket Contacts**

6	MB1EJN0600	210-0214	●			
8	MB1EJN0800	210-0215	●			
9	MB1EJN0900	210-0217	●			

**Extension Plug, Pin Contacts**

6	MB1JJN0600	210-0218	●			
8	MB1JJN0800	210-0219	●			
9	MB1JJN0900	210-0220	●			

**Receptacle, Panel Mount, Pin Contacts**

6	MB1LLN0600	210-0221	●			
8	MB1LLN0800	210-0222	●			
9	MB1LLN0900	210-0223	●			

**Receptacle, Panel Mount, R/A, Pin Contacts**

6	MB1RJN0600	210-0224	●			
8	MB1RJN0800	210-0225	●			
9	MB1RJN0900	210-0226	●			

**Cord Grips**

Cable Ø 7.5-11mm	MB3CG-S1	210-0232	●			
Cable Ø 11-14.5mm	MB3CG-S2	210-0233	●			
Cable Ø 14.5-17mm	MB3CG-S3	210-0234	●			

**Crimp Contact, Socket**

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
	RockSolid™, 1mm	SC000013	210-0235	●		
	RockSolid™, 2mm	SC000014	210-0236	●		
	Slit Machined, 1mm	SC000044	210-0239	●		
	Slit Machined, 2mm	SC000045	210-0240	●		

**Crimp Contact, Pin**

Machined, 1mm	SC000035	210-0237	●			
Machined, 2mm	SC000036	210-0238	●			

**MotionGrade™ M40 Power Solutions**

Amphenol

**C Series**

Plug

Extension Plug



Recept., Panel Mnt

Recept., Panel Mnt, R/A

- EMI/RFI shielding
- Zinc Die-cat housings
- Brass, Nickel plated coupling nut
- PA66 / PBT, UL94/V0 Inserts
- IP67
- RockSolid™ contact technology
- Brass, Gold plated contacts
- Contact Rating = 75A
- Voltage Rating = 630V
- Temperature Range = -20°C to +130°C
- ISO 9001/2000

NEW

660793

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	50+
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**Plug, Straight, Socket Contacts**

6	MC1CJN0600	210-0242	●			
8	MC1CJN0800	210-0243	●			

**Extension Plug, Pin Contacts**

6	MC1JJN0600	210-0244	●			
8	MC1JJN0800	210-0245	●			

**Receptacle, Panel Mount, Pin Contacts**

6	MC1LKN0600	210-0246	●			
8	MC1LKN0800	210-0247	●			

**Receptacle, Panel Mount, R/A, Pin Contacts**

6	MC1NJN0600	210-0248	●			
8	MC1NJN0800	210-0249	●			

**Cord Grips**

Cable Ø 9-12.5mm	MC3CG-S1	210-0250	●			
Cable Ø 12.5-14.5mm	MC3CG-S2	210-0251	●			
Cable Ø 14.5-17mm	MC3CG-S3	210-0252	●			
Cable Ø 17-19.5mm	MC3CG-S4	210-0254	●			
Cable Ø 19.5-21.5mm	MC3CG-S5	210-0255	●			
Cable Ø 21.5-24mm	MC3CG-S6	210-0256	●			
Cable Ø 23.5-26mm	MC3CG-S7	210-0257	●			

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	50+
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**Crimp Contact, Socket**

	RockSolid™, 2mm	SC000014	210-0236	●		
	RockSolid™, 3.6mm	SC000039	210-0258	●		
	Slit Machined, 2mm	SC000045	210-0240	●		
	Slit Machined, 3.6mm	SC000046	210-0261	●		

**Crimp Contact, Pin**

	Machined, 2mm	SC000040	210-0259	●		
	Machined, 3.6mm	SC000041	210-0260	●		

**MotionGrade™ Contact Tooling**

Amphenol



NEW

660797

Description	Mftrs. List No.	Order Code	1+
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**Extraction Tools**

For 1mm Contact	50-54931-1	210-2021	
For 2mm Contact	50-54931-2	210-2022	
For 3.6mm Contact	50-54931-3	210-2023	

**Crimp Tools**

20-32 AWG	AFM8	210-2024	
12-26 AWG	AF8	210-2025	

**Locators**

For AFM8 Crimp Tool	SK2/2	210-2026	
For AF8 Crimp Tool	UH2-5	210-2027	

**Circular Multipole****DC Power Connectors**

muticomp



Plug

Jack

- Snap and lock features helps to prevent accidental disconnects
- For signal and DC power applications

NEW

Contact Rating	3 way Pin 1 and 2 7.5A Pin 3 1A 4 way 7.5A for all pins	Suggested Wire AWG	18 for Power 24 for Signal Wire
Insulation Resistance	50 MΩ at 250V DC		

638258

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+	250+
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**Free Plug**

3	PM3490002-A05	187-6288	●			
4	PM4490002-A05	187-6289	●			

**PCB Jack - Right Angle**

3	2MJ-0401A110	187-6290	●			
4	2MJ-0402A110	187-6291	●			
3 Shielded	2MJ-0401A120	187-6292	●			
4 Shielded	2MJ-0402A120	187-6293	●			

**CLIFFCON Locking, Shielded, Miniature Connectors**

CLIFF

**ZC Series**

Plug

Right angle - Plug

Socket

- Intended for low voltage and signal applications
- Contacts are tin plated and other metal parts are brass or mazaac and nickel plated
- 90° versions of the plug

NEW

638191

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
-------------	-----------------	------------	----	-----	-----	------

**Plugs**

2	FC684212	190-8675	●			
3	FC684213	190-8676	●			
4	FC684214	190-8677	●			
5	FC684215	190-8678	●			
6	FC684216	190-8679	●			
7	FC684217	190-8680	●			
8	FC684218	190-8681	●			

**Plugs - Right Angle**

2	FC684222R	190-8682	●			
3	FC684223R	190-8683	●			
4	FC684224R	190-8684	●			

# Circular Multipole - continued

## CLIFFCON Locking, Shielded, Miniature Connectors - continued

### ZC Series - continued

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
<b>Plugs - Right Angle</b>						
5	FC684225R	190-8685				
6	FC684226R	190-8687				
7	FC684227R	190-8688				
8	FC684228R	190-8689				
<b>Sockets</b>						
2	FC684202	190-8690				
3	FC684203	190-8691				
4	FC684204	190-8692				
5	FC684205	190-8693				
6	FC684206	190-8694				
7	FC684207	190-8695				
8	FC684208	190-8696				

### 8STA - Circular miniature connector



- Compact design and light weight
- Aluminium body to ensure durability
- Positive locking mechanism with locked colour indicators
- Boot termination



484540

Description	No. of Ways	Price Each			
		Order Code	1+	10+	50+
<b>Plug, Shell Size 2</b>					
Plug, Socket contacts	3	143-8652			
Plug, Pin contacts	3	143-8653			
Plug, Socket contacts	5	143-8659			
Plug, Pin contacts	5	143-8660			
<b>Receptacle, Shell Size 2</b>					
Oval Receptacle, Socket contacts	3	143-8650			
In line Receptacle, Pin contacts	3	143-8655			
Oval Receptacle, Socket contacts	5	143-8656			
In line Receptacle, Socket contacts	5	143-8661			

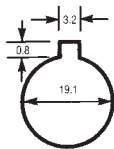
### 6 Pole 3A



P636 (P428)  
L=56, Dia=20.5



P635 (P427)  
L=34.1 Dia=23.5



Panel cut-out



A six pole mating pair of panel inlet connectors. The female plug has fully shrouded sockets keyway polarising, internal solder terminations and cable strain relief. A rear insulation boot is available for improved safety, Order Code 151-744.

Contact rating	3A @ (50V ac)*	Housing	Black phenolic resin
Temperature range	-20°C to 60°C	Contacts	Brass, Silver plated

\*Warning: P636 (50V rated) may be used for 250V ac operation but only when used in totally enclosed applications.

Mfrs. List No. PX0635=314-432, PX0636=314-420

219767

	Order Code	Price Each					
		1+	50+	100+	250+	500+	1K+
Free socket	314-420						
Panel plug	314-432						

### Series 620

#### M8



1437595



1437597



1437600



1437602

- Connector with snap-in locking
- Internal strain relief

- Easy Assembly
- IP67



#### Specifications:

Current Rating	3A (3 Way), 2.5A (4 Way) 2A (5 Way), 1A (8 Way)	Voltage Rating	125V (3, 4 Way) 63V (5, 8 Way)
Termination	Solder	Locking System	Snap In
Shell Size		Shell Material	PA
Mating Cycles	500	Cable Diameter	3-5 mm
Operating Temperature	-25°C to 85°C	Flammability Rating	UL94V-0
Contact Plating	Gold	Contact Material	Brass (Pin) Bronze (Socket)

493629

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	10+	50+
<b>Free Plug</b>					
3	99-9205-00-03	143-7595			
4	99-9209-00-04	143-7596			
5	99-9213-00-05	177-8690			
8	99-9225-00-08	177-8691			
<b>Free Socket</b>					
3	99-9206-00-03	143-7597			
4	99-9210-00-04	143-7599			
5	99-9214-00-05	177-8692			
8	99-9226-00-08	177-8693			
<b>Panel Plug</b>					
3	99-9207-00-03	143-7600			
4	99-9211-00-04	143-7601			
5	99-9215-00-05	177-8694			
8	99-9227-00-08	177-8695			
<b>Panel Socket</b>					
3	99-9208-00-03	143-7602			
4	99-9212-00-04	143-7603			
5	99-9216-00-05	177-8696			
8	99-9228-00-08	177-8697			
<b>Adapter for Socket</b>					
Rear mount	08-2636-000-001	143-7605			
Front mount	08-2629-000-001	143-7606			

### '678' Series



- Miniature circular connector
- Bayonet locking
- IP40 rating when mated
- Internal strain relief

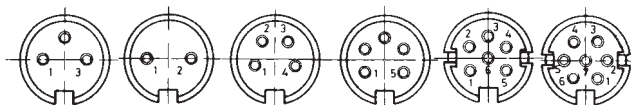


Housing	PBT (Polybutylene terephthalate) (PA66), UL94HB, Black	Current Rating	7A 2-3 Pole, 6A 4-6 Pole, 5A 7 Pole
Insulator	PBT (Polybutylene terephthalate) UL94V-0	Voltage Rating	250V 2-5 Pole, 125V 6-7 Pole
Female Contact	Bronze	Contact Resistance	≤5mΩ
Male Contact	Brass	Insulation Resistance	≥10 <sup>10</sup> Ω
IP Rating	IP40 When mated	Temperature Range	-40°C to +85°C

231738

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	10+	50+
<b>Free Plug</b>					
2	99 0601 00 02	112-2396			
3	99 0605 00 03	112-2397			
4	99 0609 00 04	112-2398			
5	99 0613 00 05	112-2399			
7	99 0621 00 07	112-2401			
<b>Free Socket</b>					
2	99 0602 00 02	112-2402			
3	99 0606 00 03	112-2403			
4	99 0610 00 04	112-2404			
5	99 0614 00 05	112-2405			
7	99 0622 00 07	112-2407			
<b>Panel Plug - Solder Bucket Contacts</b>					
2	99 0603 00 02	112-2408			
3	99 0607 00 03	112-2409			
4	99 0611 00 04	112-2410			
7	99 0623 00 07	112-2413			
<b>Panel Socket - Solder Bucket Contacts</b>					
2	99 0604 00 02	112-2414			
3	99 0608 00 03	112-2415			
4	99 0612 00 04	112-2416			
5	99 0616 00 05	112-2417			
7	99 0624 00 07	112-2418			





- Miniature round connector with threaded coupling
- Suitable for industrial electronics
- Low cost
- Screw cable clamp clip

Contact rating 5A@250V 2-8way 3A@250V 12+16way  
 Contact resistance  $\leq 3m\Omega$   
 Insulation resistance  $>^{10}\Omega$  (IEC512, part2)  
 Capacitance between adjacent contacts 2.5pF  
 Temperature range -40°C to +85°C  
 Housing Brass, nickel plating  
 Dielectric PETP  
 Contact (socket) Copper/tin alloy, silver plating  
 Contact (pins) Copper / Zinc Alloy, Silver plating  
 Maximum wire size 0.75mm<sup>2</sup> 2-8way 0.25mm<sup>2</sup> 12+16way  
 Cable gland outlet 4-6mm

209136

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	20+	50+	100+ 500+
<b>Free Plug</b>						
2	09 0301 00 02	112-2582				
3	09 0305 00 03	112-2583				
4	09 0309 00 04	112-2584				
5	09 0313 00 05	112-2585				
5	09 0317 00 05	112-2810				
6	09 0321 00 06	112-2586				
7	09 0325 00 07	112-2588				
8	09 0571 00 08	112-2811				
12	09 0329 00 12	112-2813				
16	09 0337 00 16	112-2814				
<b>Free Socket</b>						
2	09 0302 00 02	112-2589				
3	09 0306 00 03	112-2590				
4	09 0310 00 04	112-2591				
5	09 0314 00 05	112-2592				
5	09 0318 00 05	112-2815				
6	09 0322 00 06	112-2593				
7	09 0326 00 07	112-2594				
8	09 0572 00 08	112-2816				
12	09 0330 00 12	112-2817				
16	09 0338 00 16	112-2818				
<b>Panel Plug- Solder bucket contacts</b>						
2	09 0303 00 02	112-2595				
3	09 0307 00 03	112-2596				
4	09 0311 00 04	112-2597				
5	09 0315 00 05	112-2598				
6	09 0323 00 06	112-2600				
7	09 0327 00 07	112-2601				
8	09 0473 00 08	112-2825				
12	09 0331 00 12	112-2826				
16	09 0339 00 16	112-2827				
<b>Panel Socket- Solder bucket contacts</b>						
2	09 0304 00 02	112-2602				
3	09 0308 00 03	112-2603				
4	09 0312 00 04	112-2604				
5	09 0316 00 05	112-2606				
5	09 0320 00 05	112-2819				
6	09 0324 00 06	112-2607				
7	09 0328 00 07	112-2608				
8	09 0474 00 08	112-2820				
12	09 0332 00 12	112-2821				
16	09 0340 00 16	112-2822				



- Field-attachable cable connectors OD 29 mm
- Plastic shells with IP 67 rating
- 4 or 7 silver-plated contacts per connector
- Up to 16 A per contact
- Screw, crimp, or solder termination
- VDE, SEV, and UL approval

**Specifications:-**  
 Contact Material Brass  
 Housing Material PBT  
 Operating Temp. -40°C to 100°C  
 Current Rating 16A (3 Way + PE)  
 10A (6 Way + PE)  
 Contact Plating Silver  
 Flammability Rating UL94V-0  
 Mating Cycles 500  
 Voltage Rating 400V (3 Way + PE)  
 250V (6 Way + PE)

No. of Ways	Termination	Wire Gauge	Mfrs. List No.	Order Code	Price Each		
					1+	10+	50+

<b>Male Cable Connectors, PG9</b>							
3 + PE	Screw	0.5-2.5mm <sup>2</sup>	99-4221-00-04	177-8872			
6 + PE	Solder	0.75mm <sup>2</sup>	99-4225-00-07	177-8873			
6 + PE	Screw	0.34-1.5mm <sup>2</sup>	99-4217-00-07	177-8874			
6 + PE	Crimp	0.14-1.5mm <sup>2</sup>	99-4201-00-07	177-8875			

<b>Male Cable Connectors, PG11</b>							
3 + PE	Screw	0.5-2.5mm <sup>2</sup>	99-4221-110-04	177-8876			
6 + PE	Screw	0.34-1.5mm <sup>2</sup>	99-4217-110-07	177-8878			

<b>Male Cable Connectors, PG135</b>							
3 + PE	Screw	0.5-2.5mm <sup>2</sup>	99-4221-14-04	177-8880			
6 + PE	Solder	0.75mm <sup>2</sup>	99-4225-14-07	177-8881			
6 + PE	Screw	0.34-1.5mm <sup>2</sup>	99-4217-14-07	177-8883			

<b>Female Cable Connectors, PG9</b>							
3 + PE	Screw	0.5-2.5mm <sup>2</sup>	99-4222-00-04	177-8885			
6 + PE	Solder	0.75mm <sup>2</sup>	99-4226-00-07	177-8886			
6 + PE	Screw	0.34-1.5mm <sup>2</sup>	99-4218-00-07	177-8887			
6 + PE	Crimp	0.14-1.5mm <sup>2</sup>	99-4202-00-07	177-8888			

<b>Female Cable Connectors, PG11</b>							
3 + PE	Screw	0.5-2.5mm <sup>2</sup>	99-4222-110-04	177-8889			
6 + PE	Screw	0.34-1.5mm <sup>2</sup>	99-4218-110-07	177-8891			

<b>Female Cable Connectors, PG13.5</b>							
3 + PE	Screw	0.5-2.5mm <sup>2</sup>	99-4222-14-04	177-8893			
6 + PE	Solder	0.75mm <sup>2</sup>	99-4226-14-07	177-8895			
6 + PE	Screw	0.34-1.5mm <sup>2</sup>	99-4218-14-07	177-8896			

<b>Panel Plugs</b>							
3 + PE	Screw	0.5-2.5mm <sup>2</sup>	09-4223-00-04	177-8898			
6 + PE	Solder	0.75mm <sup>2</sup>	09-4227-00-07	177-8899			
6 + PE	Screw	0.75mm <sup>2</sup>	09-4219-00-07	177-8901			

<b>Panel Sockets</b>							
3 + PE	Screw	0.5-2.5mm <sup>2</sup>	09-4224-00-04	177-8903			
6 + PE	Solder	0.75mm <sup>2</sup>	09-4228-00-07	177-8904			
6 + PE	Screw	0.75mm <sup>2</sup>	09-4220-00-07	177-8905			
6 + PE	Crimp	0.75mm <sup>2</sup>	09-4204-00-07	177-8906			

<b>Accessories</b>							
<b>Protection Caps &amp; Cable Clamps</b>							
For Male Cable Connector			08-2299-000-000	177-8909			
For Female Cable Connector			08-2300-000-000	177-8910			
For Panel Plug			08-2301-000-000	177-8907			
For Panel Socket			08-2302-000-000	177-8908			
For Panel Plug, with Flat Seal			08-2672-000-000	177-8911			
For Panel Socket, with Flat Seal			08-2673-000-000	177-8913			
Flat Socket Seal			04-0722-000	177-8915			

<b>Protection Cap with Screw Termination Side for Socket</b>							
			16-0565-00-00	177-8916			

<b>Crimp Contacts</b>							
Pin, 18 AWG, 0.75-1mm <sup>2</sup>			61-0893-139	177-8919			
Pin, 16 AWG, 1.5mm <sup>2</sup>			61-0894-139	177-8920			
Socket, 18 AWG, 0.75-1mm <sup>2</sup>			61-0898-139	177-8923			
Socket, 16 AWG, 1.5mm <sup>2</sup>			61-0899-139	177-8925			

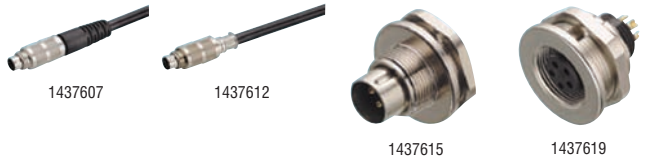
<b>Hand Tools</b>							
Crimp Tool			66-0003-001	177-8926		1+	3+
Contact Removal Tool			66-0004-001	177-8927			

## TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at [farnell.com](http://farnell.com)

# Circular Multipole - continued

## Series 702



- Connector moulded on PUR cable
- Connector and cable have 360° EMC protected shielding
- Compatible with connector series 712
- 2m cable with cable assembly
- IP67

Rated Voltage: 3 way 125V 4 way 60V  
 Current Rating: 3 way 3A 4 way 2A  
 Contact Plating: Gold

Locking System: Termination  
 Snap In: Solder

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+
-------------	-----------------	------------	----	-----	-----

Cable Assembly Plug					
2	79-1401-12-02	143-7607	●		
4	79-1409-12-04	143-7608	●		
5	79-1413-12-05	143-7609	●		
7	79-1421-12-07	143-7610	●		
8	79-1425-12-08	143-7611	●		

Cable Assembly Socket					
5	79-1414-12-05	143-7612	●		
8	79-1426-12-08	143-7614	●		

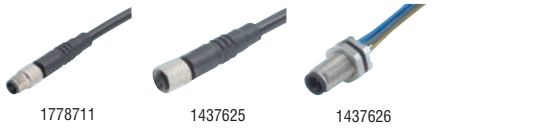
Panel Socket					
2	09-0404-00-02	143-7619	●		
4	09-0412-00-04	143-7620	●		
5	09-0416-00-05	143-7621	●		
7	09-0424-00-07	143-7622	●		
8	09-0428-00-08	143-7623	●		

Cable connector body: Polyamide. **UL94HB**  
 Socket body: Polyamide. **UL94V-0**  
 Insulator material: Glass filled polyester. **UL94V-0**  
 Max cable outlet: 3-4mm / 4-5mm  
 Panel mounting hole dia.: 10.1mm (M10)

No. of Ways	List No.	Order Code	1+	10+	50+
Free Plug					
2	99 0971 100 02	112-2358	●		
3	99 0975 100 03	112-2359	●		
4	99 0979 100 04	112-2360	●		
5	99 0995 100 05	112-2361	●		
7	99 9475 100 07	112-2362	●		
8	99 9479 100 08	112-2363	●		
Free Socket					
2	99 0972 100 02	112-2364	●		
3	99 0976 100 03	112-2365	●		
4	99-0980-100-04	112-2366	●		
5	99 0996 100 05	112-2367	●		
7	99 9476 100 07	112-2369	●		
8	99-9480-100-08	177-8698	●		
Panel Plug					
2	09 0973 00 02	112-2371	●		
3	09 0977 00 03	112-2372	●		
4	09 0981 00 04	112-2373	●		
8	09-9481-00-08	177-8700	●		
Panel Socket					
2	09 0974 00 02	112-2376	●		
3	09 0978 00 03	112-2377	●		
4	09 0982 00 04	112-2378	●		
5	09 0998 00 05	112-2379	●		
7	09 9478 00 07	112-2380	●		
8	09 9482 00 08	112-2382	●		

## Series 707

M5



- Circular connector with M5x0.5 screw locking
- Connector moulded on 2m of PUR cable or 0.2m wire
- Thread nut vibration resistant
- IP67 Protection

Specifications:-  
 Current Rating: 1A  
 Mating Cycles: 100  
 Contact Plating: Gold  
 Contact Material: Brass (Plug), Bronze (Socket)

Voltage Rating: 60V  
 Wire Gauge: 0.14mm<sup>2</sup> / 26AWG  
 Operating Temp.: -25°C to 80°C  
 Termination: Crimp (Cable Assemblies), Solder (Flying Leads)

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+
-------------	-----------------	------------	----	-----	-----

Cable Assembly, Length = 2m					
Plug, 3 way	79-3101-52-03	177-8711	●		
Plug, R/A, 4 way	79-3109-52-04	177-8713	●		
Socket, 3 way	79-3102-52-03	177-8714	●		
Socket, 4 way	79-3108-52-04	143-7625	●		
Socket, R/A, 3 way	79-3104-52-03	177-8715	●		
Socket, R/A, 4 way	79-3110-52-04	177-8716	●		

Flying Lead, Front Fastening, Length = 0.2m					
Panel Plug, 3 way	09-3105-86-03	177-8718	●		
Panel Plug, 4 way	09-3111-86-04	143-7626	●		

## Subminiature Connector '710' Series



- Subminiature bayonet style
- Cable housing with integrated strain relief
- 500+ mating cycles
- Solder bucket contacts
- IP40 rating (when mated)

Current rating: 4A(2,3 way) 3A(4,5 way) 1A(7,8 way)  
 Rated voltage: 125V  
 Wire gauge: 0.25mm<sup>2</sup>(2-5 way) 0.14mm<sup>2</sup>(7-8way)  
 Contact resistance: <= 3mΩ  
 Insulation resistance: >= 10<sup>10</sup>Ω  
 Operating temperature range: -40°C to +85°C  
 Contact material: Pins: Brass; Sockets: Bronze  
 Contact plating: Gold over nickel

## Subminiature Connector '711' Series



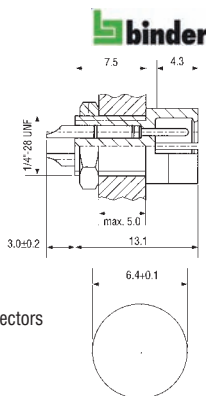
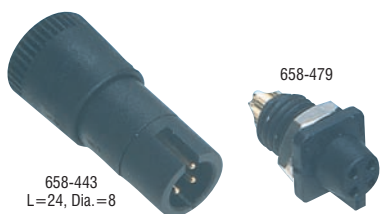
- Subminiature screw locking style
- Compatible with 702 and 712 Series
- Cable housing with integrated strain relief
- 500+ mating cycles
- Solder bucket contacts
- IP40 rating (when mated)

Current rating: 4A (2,3 way) 3A (4,5 way) 1A (7,8 way) 4A  
 Rated voltage: 125V  
 Wire gauge: 0.25mm<sup>2</sup>(2-5 way) 0.14mm<sup>2</sup>(7-8way)  
 Contact resistance: <= 3mΩ  
 Insulation resistance: >= 10<sup>10</sup>Ω  
 Operating temperature range: -40°C to +85°C  
 Contact material: Pins: Brass; Sockets: Bronze  
 Contact plating: Gold over nickel  
 Cable connector body: Polyamide. **UL94HB**  
 Socket body: Brass, nickel plated  
 Insulator material: Glass filled polyester. **UL94V-0**  
 Max cable outlet: 3-4mm  
 Panel mounting hole dia.: 9.1mm

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+
Free Plug					
2	99 0071 100 02	121-6757	●		
3	99 0075 100 03	112-2333	●		
4	99 0079 100 04	112-2334	●		
5	99 0095 100 05	112-2335	●		
7	99 0475 100 07	112-2336	●		
8	99 0479 100 08	112-2337	●		
Free Socket					
2	99 0072 100 02	112-2338	●		
3	99 0076 100 03	112-2339	●		
4	99 0080 100 04	112-2340	●		
5	99 0096 100 05	112-2341	●		
7	99 0476 100 07	112-2342	●		
8	99 0480 100 08	112-2343	●		
Panel Plug					
2	09 0073 00 02	112-2345	●		
3	09 0077 00 03	112-2346	●		
4	09 0081 00 04	112-2347	●		
5	09 0097 00 05	112-2348	●		
7	09 0477 00 07	112-2349	●		
8	09 0481 00 08	112-2350	●		

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	10+	50+
<b>Panel socket</b>					
2	09 0074 00 02	112-2351			
3	09 0078 00 03	112-2352			
4	09 0082 00 04	112-2353			
5	09 0098 00 05	112-2354			
7	09 0478 00 07	112-2355			
8	09 0482 00 08	112-2357			

### 3A, Subminiature Connector - 'Series 719'



- 3, 4 & 5 pole mating pairs of panel inlet subminiature connectors
- Single keyway polarisation
- Positive snap-in device
- Internal pinch ring cable clamp
- Very small size

Contact rating	3A @ 125V ac	Contacts	. Gold plating
Temperature range	-40°C to +85°C	Termination	Solder
Housing	Polyamide	Wire conductor size	0.25mm <sup>2</sup>

209001

No. of Ways	Mfrs. List No.	Order Code	Price Each				
			1+	20+	50+	100+	500+
<b>Free Plug</b>							
3	09 9747 70 03	112-2802					
4	09 9767 70 04	112-2545					
5	09 9789 71 05	112-2803					
<b>Free Socket</b>							
3	09 9748 70 03	112-2804					
4	09 9764 70 04	112-2546					
5	09-9790-70-05	112-2805					
<b>Panel Plug</b>							
3	09 9749 30 03	112-2806					
4	09 9765 30 04	112-2547					
5	09 9791 30 05	112-2807					
<b>Panel Socket</b>							
3	09 9750 30 03	112-2808					
4	09 9766 30 04	112-2548					
5	09 9792 30 05	112-2809					

### 720 Series



- Miniature circular connector
- Snap in locking, vibration proof
- Internal strain relief
- IP67 when mated

Termination	Solder	Insulation Resistance	10 <sup>9</sup> Ω
Wire Size	0.75mm <sup>2</sup> Max	Current Rating	3 pole 7A, 5 pole 5A, 8 and 12 pole 2A
Housing	Polyamid PA66 UL94V-0	Temperature Range	-40 °C to +80 °C
Contact Resistance	3mΩ	IP Rating	IP67 when mated

231709

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	50+	100+
<b>Free Plug, Black Cable Dia. 2.5-4mm</b>					
3	99 9105 03 03	112-2469			
5	99 9113 03 05	112-2474			
<b>Free Plug, Black, Cable Dia. 4-6mm</b>					
3	99 9105 00 03	112-2468			
5	99 9113 00 05	112-2473			
8	99 9125 00 08	112-2477			
<b>Free Plug, Red, Cable Dia. 4-6mm</b>					
3	99-9105-50-03	177-8774			
5	99-9113-50-05	177-8775			
8	99-9125-50-08	177-8776			
<b>Free Plug, Blue, Cable Dia. 4-6mm</b>					
3	99-9105-60-03	177-8777			
5	99-9113-60-05	177-8779			
8	99-9125-60-08	177-8781			

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	50+	100+
<b>Free Plug, Green, Cable Dia. 4-6mm</b>					
3	99-9105-70-03	177-8782			
5	99-9113-70-05	177-8783			
8	99-9125-70-08	177-8784			
<b>Free Plug, Black, Cable Dia. 6-8mm</b>					
12	99 9133 02 12	112-2479			
<b>Free Socket, Black, Cable Dia. 2.5-4mm</b>					
3	99 9106 03 03	112-2471			
<b>Free Socket, Black, Cable Dia. 4-6mm</b>					
3	99 9106 00 03	112-2470			
5	99 9114 00 05	112-2475			
8	99 9126 00 08	112-2478			
<b>Free Socket, Red, Cable Dia. 4-6mm</b>					
3	99-9106-50-03	177-8785			
5	99-9114-50-05	177-8786			
8	99-9126-50-08	177-8787			
<b>Free Socket, Blue, Cable Dia. 4-6mm</b>					
3	99-9106-60-03	177-8788			
5	99-9114-60-05	177-8789			
8	99-9126-60-08	177-8790			
<b>Free Socket, Green, Cable Dia. 4-6mm</b>					
3	99-9106-70-03	177-8792			
5	99-9114-70-05	177-8793			
8	99-9126-70-08	177-8794			
<b>Free Socket, Black, Cable Dia. 6-8mm</b>					
5	99 9114 02 05	112-2476			
12	99-9134-02-12	177-8773			
<b>Panel Plug, Black</b>					
3	99 9107 00 03	112-2480			
5	99 9115 00 05	112-2481			
8	99-9127-00-08	177-8771			
12	99-9135-00-12	177-8772			
<b>Panel Plug, Red</b>					
3	99-9107-50-03	177-8795			
5	99-9115-50-05	177-8796			
<b>Panel Plug, Blue</b>					
3	99-9107-60-03	177-8798			
<b>Panel Plug, Green</b>					
3	99-9107-70-03	177-8801			
<b>Panel Socket, Black</b>					
3	99 9108 00 03	112-2482			
5	99 9116 00 05	112-2483			
8	99 9128 00 08	112-2485			
12	99 9136 00 12	112-2486			
<b>Panel Socket, Red</b>					
3	99-9108-50-03	177-8804			
5	99-9116-50-05	177-8805			
8	99-9128-50-08	177-8806			
<b>Panel Socket, Blue</b>					
3	99-9108-60-03	177-8807			
5	99-9116-60-05	177-8809			
8	99-9128-60-08	177-8811			
<b>Panel Socket, Green</b>					
3	99-9108-70-03	177-8812			
8	99-9128-70-08	177-8814			
<b>Protection Caps for Panel Plugs &amp; Sockets</b>					
Plug	08-2559-000-000	177-8815			
Socket	08-2567-000-000	177-8816			
<b>Socket adaptor back assembly</b>					
	08 2433 000 001	112-2487			
<b>Socket adaptor front assembly</b>					
	08 2434 000 001	112-2488			

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# Circular Multipole - continued

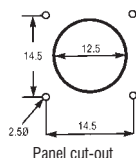
## 6 Pole Locking 5A



147-075  
L=55.5 Dia=15



147-078  
H=20.2, W=20.2, D=22.2



Low cost locking 6 pole inlet connectors. The female plug has fully shrouded sockets, a polarising/locking mechanism, solder termination and a cable clamp.

Contact rating	5A @ 150V ac	Housing Contacts	Black Polyacetal
		Pin Sockets	Phosphor Bronze, Silver plated
		Sockets	Phosphor Bronze, Silver plated
Mfrs. List Nos:	RPC1-12P-6S(73)	= 107-7724	RPC1-12RB-6P(71) = 107-7728

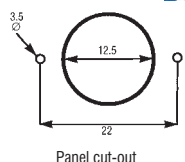
	Order Code	Price Each			
		1+	50+	150+	250+
Free socket	107-7724				
Panel Plug	107-7728				

## 7 Pole Latching 5A

107-7725  
L=35 Dia=15



107-7729  
H=19, W=29, D=22.5

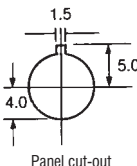


The female plug has fully shrouded sockets, solder terminations and cable clamping. The chassis plug has shrouded pins to avoid accidental damage.

Contact rating	5A @ 150V ac	Housing Contacts	Blue Polyamide
		Pin Sockets	Phosphor Bronze, Silver plated
		Sockets	Phosphor Bronze, Silver plated
RPC2-12P-7S(73)	= 107-7725	RPC2-12RB-7P(71)	= 107-7729
Contact rating	@ 150V ac 5A	Housing Contacts	Polyamide Blue
	5A	Pin Sockets	Phosphor Bronze, Silver plated
	Blue Polyamide	Sockets	Phosphor Bronze, Silver plated

	Order Code	Price Each			
		1+	50+	150+	250+
Free socket	107-7725				
Panel Plug	107-7729				

## HR10 Series Miniature Latching Connectors



Free socket mates with jack plug or fixed plug. Free plug mates with jack socket or fixed socket.

A range of subminiature push-pull latching connectors providing a robust mechanism in a very compact package.

Current rating	2A @ 100V ac 140V dc	Housing	Zinc alloy and brass matt finished, nickel plated
Withstand	500V ac for 4 way	Insulators	(Blue) Nylon 6.6
Operating voltage	300V ac for 6 way	Contacts	
Contact resistance	10mΩ max	Pin Sockets	Brass, gold plated.
Cable dia.	5.2mm max		Beryllium copper, gold plated

	No. of Ways	Mfrs. List No.	Order Code	Price Each		
				1+	50+	150+
<b>Free Plugs</b>						
	4	HR10-7P-4P(73)	107-7702			
	6	HR10-7P-6P(73)	107-7704			
	12	HR10-10P-12P(73)	NEW 206-1617			
<b>Jack Plugs</b>						
	4	HR10-7J-4P(73)	107-7711			
	6	HR10-7J-6P(73)	107-7712			
<b>Panel Plugs</b>						
	4	HR10-7R-4P(73)	107-7707			
	6	HR10-7R-6P(73)	107-7708			
	12	HR10-10R-12P(73)	NEW 206-1620			

	No. of Ways	Mfrs. List No.	Order Code	Price Each		
				1+	50+	150+
<b>Free Sockets</b>						
	4	HR10-7P-4S(73)	107-7700			
	6	HR10-7P-6S(73)	107-7701			
	12	HR10-10P-12S(73)	NEW 206-1618			
<b>Jack Sockets</b>						
	4	HR10-7J-4S(73)	107-7709			
	6	HR10-7J-6S(73)	107-7710			
<b>Panel Sockets</b>						
	4	HR10-7R-4S(73)	107-7705			
	6	HR10-7R-6S(73)	107-7706			
	12	HR10-10R-12S(73)	NEW 206-1619			

## RM12B Series Bayonet Connectors



Free plug  
107-7717



Jack plug  
147-051



Panel plug  
107-7722



Free socket  
107-7714



Jack socket  
147-049



Panel socket  
107-7719

Free socket mates with jack plug and fixed plug. Free plug mates with jack socket and fixed socket. A range of miniature bayonet locking circular multipole connectors available in both panel and inline configurations.

Contact rating	5A	Housing	Diecast zinc matt finish, nickel plated
Operating voltage	3 pin (500Vac) 6 pin (350V ac)	Insulators	Diallyl phthalate. <b>UL94V-0</b>
Contact resistance	4mΩ	Contacts	Pin Brass, silver plated
		Socket	CDA alloy, silver plated

	No. of Ways	Mfrs. List No.	Order Code	Price Each			
				1+	50+	150+	250+
<b>Free Plugs</b>							
	3	RM12BPE-3PH(71)	107-7716				
	4	RM12BPE-4PH(71)	NEW 206-1615				
	6	RM12BPE-6PH(71)	107-7717				
<b>Jack Plugs</b>							
	3	RM12BJB-3PH	147-050				
	6	RM12BJB-6PH	147-051				
<b>Panel Plugs</b>							
	3	RM12BRD-3PH(71)	107-7720				
	6	RM12BRD-6PH(71)	107-7722				
<b>Free Sockets</b>							
	3	RM12BPE-3S(71)	107-7713				
	6	RM12BPE-6S(71)	107-7714				
<b>Jack Sockets</b>							
	3	RM12BJB-3S07	147-048				
	6	RM12BJB-6S07	147-049				
<b>Panel Sockets</b>							
	3	RM12BRD-3S(71)	107-7718				
	4	RM12BRD-4S(71)	NEW 206-1616				
	6	RM12BRD-6S(71)	107-7719				

## HS Series



**NEW**

The HS series is mechanically and electrically stable, sturdy and simple in construction.

Withstanding Voltage	1000V ac	Insulation Resistance	1000MΩ min.
Current Rating	Shell Size 12 & 16: 7A Shell Size 21: 10A	Contact Resistance	5mΩ max.

645848

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
<b>Shell Size 12 - Plug</b>					
2	HS12P-2(71)	206-1597			
<b>Shell Size 12 - Receptacle</b>					
2	HS12R-2(71)	206-1598			
<b>Shell Size 16 - Plug</b>					
2	HS16P-2(71)	206-1599			
3	HS16P-3(71)	206-1601			
4	HS16P-4(71)	206-1602			
<b>Shell Size 16 - Receptacle</b>					
2	HS16R-2(71)	206-1603			
3	HS16R-3(71)	206-1604			
4	HS16R-4(71)	206-1605			
<b>Shell Size 21 - Plug</b>					
2	HS21P-2(71)	206-1606			
3	HS21P-3(71)	206-1607			
4	HS21P-4(71)	206-1608			
5	HS21P-5(71)	206-1609			
<b>Shell Size 21 - Receptacle</b>					
2	HS21R-2(71)	206-1610			
3	HS21R-3(71)	206-1611			
4	HS21R-4(71)	206-1613			
5	HS21R-5(71)	206-1614			

### Bayonet Lock Connector For Power Supply EM Series

**NEW** HRS



- IP67 rating
- Number of ways: 4
- Current rating: 50A per contact
- Cable size: 8mm<sup>2</sup>

620040

Gender	Mfrs. List No.	Order Code	Price Each			
			1+	5+	25+	50+
<b>Pin Contacts</b>						
Plug	EM35WBP-4PC	182-6926				
Receptacle	EM35WBR-4PC	182-6929				
<b>Socket Contacts</b>						
Plug	EM35WBP-4SC	182-6928				
Receptacle	EM35WBR-4SC	182-6930				
<b>Contacts</b>						
Receptacle	EM-SC-133	182-6933				
Plug	EM-PC-133	182-6934				
<b>Accessories</b>						
Strain Relief	EM35WCC-23	182-6927				
Extraction Tool	EM-8-TP	182-6932				

### Waterproof Heavy Duty Connectors JRW Series

**NEW** HRS



- JRW connector is suitable for outdoor applications such as base stations and wireless equipments with IP67 waterproof protection
- IP67 rating
  - Contact material: Copper alloy
  - Contact plating: Silver

626087

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
<b>Plug - Pin Contacts</b>					
3	JR13WP-3P(71)	187-4355			
5	JR13WP-5P(71)	187-4356			
7	JR16WP-7P(71)	187-4357			
16	JR25WP-16P(71)	190-7011			
24	JR25WP-24P(71)	190-7012			
<b>Plug - Socket Contacts</b>					
3	JR13WP-3S(71)	187-4358			
5	JR13WP-5S(71)	187-4359			
7	JR16WP-7S(71)	187-4360			
16	JR25WP-16S(71)	190-7014			
24	JR25WP-24S(71)	190-7015			

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
<b>Receptacle - Pin Contacts</b>					
3	JR13WR-3P(71)	187-4361			
5	JR13WR-5P(71)	187-4362			
7	JR16WR-7P(71)	187-4363			
16	JR25WR-16P(71)	190-7016			
24	JR25WR-24P(71)	190-7017			
<b>Receptacle - Socket Contacts</b>					
3	JR13WR-3S(71)	187-4364			
5	JR13WR-5S(71)	187-4365			
7	JR16WR-7S(71)	187-4367			
16	JR25WR-16S(71)	190-7018			
24	JR25WR-24S(71)	190-7019			
<b>Dust Caps</b>					
Size					
13	JR13WRC3	187-4372			
16	JR16WRC3	187-4373			
<b>Cable Clamps</b>					
Cable radius    Clamp Size					
4 mm	13	JR13WCC-4(71)	190-7020		
6 mm	13	JR13WCC-6(71)	190-7021		
8 mm	13	JR13WCC-8(71)	190-7022		
4 mm	16	JR16WCC-4(71)	190-7023		
6 mm	16	JR16WCC-6(71)	190-7024		
8 mm	16	JR16WCC-8(71)	190-7026		
8 mm	25	JR25WCC-8(72)	187-4368		
10 mm	25	JR25WCC-10(72)	187-4369		
12 mm	25	JR25WCC-12(72)	187-4370		
14 mm	25	JR25WCC-14(72)	187-4371		

### Push On Bayonet Lock Miniature IP67 Connector HR34B Series

**NEW** HRS



- The plugs have socket contacts and the sockets have pin contacts
- Current rating 4 way: 5A
- Current rating 10 way: 3A
- IP67 rating
- Colour: Black
- Durability: 500 mating cycles

626251

No. of Cable Ways	Cable Diameter	Mfrs. List No.	Order Code	Price Each		
				1+	10+	25+
<b>Plug - Plastic</b>						
4	5.7mm to 7.3mm	HR34B-12WPD-4S	187-4376			
10	5.7mm to 7.3mm	HR34B-12WPD-10S	187-4374			
4	6.5mm to 8mm	HR34B-12WPE-4S	187-4379			
10	6.5mm to 8mm	HR34B-12WPE-10S	187-4375			
<b>Plug - Plastic - Alternate Keying</b>						
4	5.7mm to 7.3mm	HR34B-12WPD-4S-X	187-4377			
4	6.5mm to 8mm	HR34B-12WPE-4S-X	187-4381			
<b>Plug - Plastic - Right Angle</b>						
4	5.7mm to 7.3mm	HR34B-12WLDP-4S	187-4387			
10	5.7mm to 7.3mm	HR34B-12WLDP-10S	187-4385			
4	6.5mm to 8mm	HR34B-12WLPE-4S	187-4389			
10	6.5mm to 8mm	HR34B-12WLPE-10S	187-4386			
<b>Plug - Plastic - Right Angle - Alternative Keying</b>						
4	5.7mm to 7.3mm	HR34B-12WLDP-4S-X	187-4388			
4	6.5mm to 8mm	HR34B-12WLPE-4S-X	187-4390			
<b>Plug - Metal - Right Angle</b>						
10	5.3mm to 7.3mm	HR34B-12WLPA-10S(71)	187-4392			
10	6.5mm to 8mm	HR34B-12WLPA-10S(71)	187-4393			
10	8mm to 9mm	HR34B-12WLPA-10S	187-4394			
<b>Socket - Panel mounted</b>						
4		HR34B-12WRB-4P	187-4396			
10		HR34B-12WRA-10P	187-4395			
<b>Socket - Panel mounted - Alternative Keying</b>						
4		HR34B-12WRB-4P-X	187-4397			
<b>Socket - Through Hole Mounted</b>						
10		HR34B-12WR-10PD(71)	187-4398			

# Circular Multipole - continued

## Circular Connectors

### Series 03



- Robust circular connector with screw fastener.
- Metal
- 360° Shielded:
- Solid metal sleeve and ring to take braided screen
- For use in Measurement, Control and medical equipment
- IP67.

Type	Description
0322	Socket 360°Shielded
0322	Plug 360°Shielded
0304	Socket, Front mounting, Screwed from rear, Solder terminals
0305	Socket Rear/side mounting, screwed from front, Solder terminals
0314	Plug, Front mounting, Screwed from rear, Solder terminals
0315	Plug, Rear/side mounting, screwed from front, Solder terminals.

239693

No of Ways	Mftrs. List No.	Order Code	1+	10+	50+
<b>Plug 360° Shielded</b>					
3	0332 03	121-2128	●		
4	0332 04	121-2130	●		
6	0332 06	121-2131	●		
7 DIN 45329	0332 07-1	121-2132	●		
8	0332 08	121-2133	●		
8 DIN 45326	0332 08-1	121-2134	●		
12	0332 12	121-2135	●		
<b>Socket 360°Shielded</b>					
3	0322 03	121-2136	●		
4	0322 04	121-2137	●		
6	0322 06	121-2139	●		
7 DIN 45321	0322 07-1	121-6973	●		
8	0322 08	121-2141	●		
8 DIN 45326	0322 08-1	121-2142	●		
12	0322 12	121-2143	●		
<b>Socket Front mounted</b>					
3	0304 03	121-2127	●		
4	0304 04	119-6462	●		
7 DIN 45329	0304 07-1	119-6463	●		
12	0304 12	119-6468	●		
<b>Plug, Front mounting</b>					
3	0314 03	117-7880	●		
12	0315 12	117-7879	●		

## 03 SWUM™ Circular Connectors



- For use with 3G/4G Mobile Radio Networks
- Compliant with AISG and IEC 60130-9
- With threaded joint & solder terminals
- Sealed when unmated (SWUM™)
- Operating Temp. = -40°C to +85°C
- IP68/67 rating

**NEW**

618751

No of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+	250+
<b>Socket, Front Panel Mount</b>							
6	0304-2 06-1	183-1895	●				
8	0304-2 08-1	183-1897	●				
<b>Socket, Rear Panel Mount</b>							
6	0305-2 06-1	183-1898	●				
8	0305-2 08-1	183-1899	●				
<b>Socket, PCB, Front Mount</b>							
6	0306-2 06-1	183-1900	●				
8	0306-2 08-1	183-1901	●				
<b>Socket, PCB, Rear Mount</b>							
6	0307-2 06-1	183-1903	●				
8	0307-2 08-1	183-1904	●				
<b>Socket, Flange Chassis, Front Mount</b>							
6	0308-2 06-1	183-1905	●				
8	0308-2 08-1	183-1906	●				
<b>Plug, Front Panel Mount</b>							
6	0314-2 06-1	183-1907	●				
8	0314-2 08-1	183-1908	●				
<b>Plug, Rear Panel Mount</b>							
6	0315-2 06-1	183-1909	●				
8	0315-2 08-1	183-1910	●				
<b>Plug, PCB, Front Mount</b>							
6	0316-2 06-1	183-1911	●				
8	0316-2 08-1	183-1912	●				

No of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+	250+
<b>Plug, PCB, Rear Mount</b>							
6	0317-2 06-1	183-1913	●				
8	0317-2 08-1	183-1915	●				
<b>Plug, Flange Chassis, Front Mount</b>							
6	0318-2 06-1	183-1916	●				
8	0318-2 08-1	183-1917	●				
<b>Dust Caps, IP68</b>							
For Plugs	0388	189-1436	●				
For Sockets	0387	189-1437	●				

## 03 Flange Circular Connectors



- With threaded joint & solder terminals
- IEC 60130-9
- Option for AISG version (5, 7 & 8 Contacts)
- Operating Temp. = -40°C to +85°C
- IP68 rating

No of Ways	Mftrs. List No.	Order Code	1+	50+	100+	250+
<b>Socket, Flange Chassis</b>						
3	0308 03	183-1871	●			
4	0308 04	183-1873	●			
5	0308 05	183-1874	●			
6	0308 06	183-1876	●			
7	0308 07	183-1877	●			
8	0308 08	183-1879	●			
12	0308 12	183-1881	●			
14	0308 14	183-1882	●			
<b>Plug, Flange Chassis</b>						
3	0318 03	183-1883	●			
4	0318 04	183-1885	●			
5	0318 05	183-1886	●			
6	0318 06	183-1888	●			
7	0318 07	183-1889	●			
8	0318 08	183-1891	●			
12	0318 12	183-1893	●			
14	0318 14	183-1894	●			
<b>Socket, Flange Chassis, AISG</b>						
5	0308 05-1	183-1875	●			
7	0308 07-1	183-1878	●			
8	0308 08-1	183-1880	●			
<b>Plug, Flange Chassis, AISG</b>						
5	0318 05-1	183-1887	●			
7	0318 07-1	183-1890	●			
8	0318 08-1	183-1892	●			
<b>Dust Caps, IP68</b>						
For Plugs	0388	189-1436	●			
For Sockets	0387	189-1437	●			

## 'R15' Series Plastic Housings



Pushing Performance



Free housing with socket insert and cable seal  
L=70, Dia=28



Panel housing with pin insert and locknut  
D(front panel)=36, L=28,  
Panel thickness=2 max  
Panel cut-out=21  
Thread=Pg13.5



Right angle panel housing and locknut  
D(front panel)=35, L=51,  
Panel thickness=3 max  
Panel cut-out=21  
Thread=Pg13.5

FOR SUITABLE CONTACTS AND TOOLING SEE WEBSITE

219702

Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
<b>Housings</b>						
Free	09 15 000 0401	<b>462-408</b>				
<b>Right angle</b>						
Panel	09 15 000 0102	<b>462-421</b>				
Bulkhead	09 15 000 0301	<b>462-433</b>				
<b>Inserts</b>						
Pin	09 15 007 3001	<b>462-445</b>				
Socket	09 15 007 3101	<b>462-457</b>				
<b>Cable Seal</b>	09 00 000 5164	<b>151-865</b>				

### 'R15' Series Metal Housings



Free housing with socket insert and cable seal  
L=71, Dia=28



Panel housing and locknut  
D(front panel)=36, L=42,  
Panel thickness=4 max  
Panel cut-out=21  
Thread=Pg13.5



Pushing Performance

209091

Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
<b>Housings</b>						
Free	09 15 000 0421	<b>462-470</b>				
Panel	09 15 000 0121	<b>462-482</b>				
<b>Right angle</b>						
<b>Inserts</b>						
Pin	09 15 007 3021	<b>462-500</b>				
Socket	09 15 007 3121	<b>462-512</b>				

### Contacts for 'R15' Series



Pin contact

Socket contact

Wire size=0.75-1.00mm<sup>2</sup>, 18AWG  
Wire dia=1.45  
Strip length =8



Pushing Performance

209092

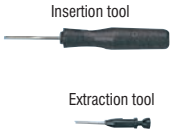
Turned contacts manufactured in copper alloy with hard silver plating.

10 per pack		Price Per Pack				
Mfrs. List No.	Order Code	1+	25+	50+	100+	
Pin	09 15 000 6102	<b>151-853</b>				
Socket	09 15 000 6202	<b>151-854</b>				

### Tooling for 'R15' Series



Crimp tool



Insertion tool

Extraction tool



Pushing Performance

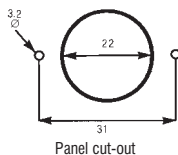
209093

Mfrs. List No.	Order Code	1+
Crimp Tool	09 99 000 0110	<b>728-380</b>
Locator	09 99 000 0111	<b>151-856</b>
Insertion Tool	09 99 000 0059	<b>151-857</b>
Extraction Tool	0999 000 0052	<b>151-858</b>

### 'CA' Series Screwlocking 3, 6 Way + Earth



- Plastic screwlocking, suitable for process control and industrial application
- Sealed to **IP67**
- Approvals, **DIN, VDE, SEV** and **UL** Recognised



Panel cut-out

Contact Rating	16A @ 400Vac/450V dc	(3 way)
	16A @ 250Vac/300V dc	(6 way)
Contact Resistance	3mΩ	(3 way)
	3mΩ	(6 way)
Temperature range	-40°C to +90°C	
Housing	Glass-fibre reinforced Polyamide, <b>UL94V-1</b>	
Contact Bearer	Glass-fibre reinforced Polyamide, <b>UL94V-1</b>	
Contacts	Copper Alloy, Silver Plated	
Protection	IP67 (DIN 40 050)	
Wire conductor size	1.5mm <sup>2</sup> /18 AWG	(3 Way)
	0.75mm <sup>2</sup> /18 AWG	(6 Way)
Cable Glands	PG9 (Cable=6-8mm max)	
Terminations	Screw (3 Ways)	
	Solder (6 Ways)	

209100

Mfrs.	List No.	Order Code	1+	10+	25+	50+	100+
<b>Free Plug</b>							
3 + Earth	CA3LS	<b>361-1851</b>					
6 + Earth	CA6LS	<b>361-1899</b>					
<b>Free Socket</b>							
3 + Earth	CA3LD	<b>361-1863</b>					
6 + Earth	CA6LD	<b>361-1905</b>					
<b>Panel Plug</b>							
3 + Earth	CA3GS	<b>494-665</b>					
6 + Earth	CA6GS	<b>494-677</b>					
<b>Panel Socket</b>							
3 + Earth	CA3GD	<b>494-689</b>					
6 + Earth	CA6GD	<b>494-690</b>					
<b>Protective Cap</b>							
<b>Cover for</b>							
panel plug	CA00SD2	<b>494-707</b>					
<b>Cover for</b>							
panel socket	CA00SD4	<b>494-719</b>					

### ecomate™ IP67 Circular Connectors

Amphenol



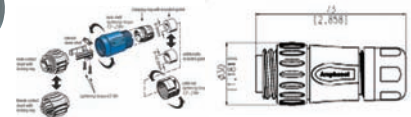
- **IP67** protection when mated
- Quick and easy assembly
- Pre-loaded ground contact
- Compatible and interchangeable with C16-1 series
- Ergonomically designed product range for safe handling under harsh working conditions
- Strain relief and mounted gasket all in one component
- Approvals: **UL, CSA, VDE, SEV**

No. of Ways	3+PE Screw Term.	6+PE Solder Term.	6+PE Crimp Term.
Rated Insulation Voltage	400V	250V	250V
Withstand Voltage	6000V	4000V	4000V
Current Rating	16A	10A	13A
Insulation Resistance	10MΩ	10MΩ	10MΩ
Contact Resistance	5mΩ	5mΩ	5mΩ
Operating Temperature	-40 to +100°C	-40 to +125°C	-40 to +125°C
IP Rating	IP67	IP67	IP67
Mating & Unmating Force	15N	30N	30N
Mating Cycles	500	500	500
Housing Material	Polyamide 6.6 / PA6	Polyamide 6.6 / PA6	Polyamide 6.6 / PA6
Contact Plating	Silver / Gold	Silver / Gold	Silver / Gold
Wire Size, Max	2.5mm <sup>2</sup> , 14AWG	0.75, 20AWG	0.14 - 1.5mm <sup>2</sup> , 26 - 16AWG
Flammability	UL94V-0	UL94V-0	UL94V-0

435493

### Free Plug, 3 & 6 Way + Earth

Amphenol



### Strain Relief with Clamping Ring

435520

Ways	Colour	Mfrs. List No.	Order Code	1+	10+	25+	50+
<b>Solder Termination - Silver Plated Contacts</b>							
6+E	Blue	C016 30H006 100 10	<b>118-8939</b>				
6+E	Black	C016 30H006 100 12	<b>184-9662</b>				
<b>Solder Termination - Gold Plated Contacts</b>							
6+E	Blue	C016 30H006 200 10	<b>118-8949</b>				
<b>Crimp Termination - Contacts sold separately</b>							
6+E	Blue	C016 10H006 000 10	<b>118-8953</b>				
6+E	Black	C016 10H006 000 12	<b>184-9660</b>				

# Circular Multipole - continued

## Free Plug, 3 & 6 Way + Earth - continued

### Strain Relief with Clamping Ring - continued

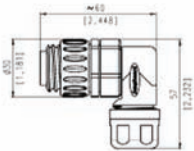
No. of Ways	Backshell		Mfrs. List No.	Order Code	Price Each			
	Colour				1+	10+	25+	50+
<b>Screw Termination - Silver Plated Contacts</b>								
3+PE	Blue		C016 20H003 100 10	118-8972				
3+E	Black		C016 20H003 100 12	184-9656				
<b>Screw Termination - Gold Plated Contacts</b>								
3+E	Blue		C016 20H003 200 10	118-8974				

### Internal Strain Relief and Clamping Ring

No. of Ways	Backshell		Mfrs. List No.	Order Code	Price Each			
	Colour				1+	10+	25+	50+
<b>Solder Termination - Silver Plated Contacts</b>								
6+PE	Blue		C016 30H006 110 10	118-8948				
6+E	Black		C016 30H006 110 12	184-9663				
<b>Solder Termination - Gold Plated Contacts</b>								
6+E	Blue		C016 30H006 210 10	118-8950				
<b>Crimp Termination - Contacts sold separately</b>								
6+E	Blue		C016 10H006 010 10	118-8954				
6+E	Black		C016 10H006 010 12	184-9661				
<b>Screw Termination - Silver Plated Contacts</b>								
3+PE	Blue		C016 20H003 110 10	118-8973				
3+E	Black		C016 20H003 110 12	184-9658				
<b>Screw Termination - Gold Plated Contacts</b>								
3+E	Blue		C016 20H003 210 10	118-8976				

## 90° Free Plug, 3 & 6 Way + Earth

Amphenol



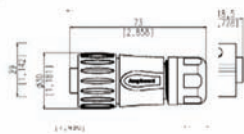
435547

### Strain Relief with Clamping Ring

No. of Ways	Backshell		Mfrs. List No.	Order Code	Price Each			
	Colour				1+	10+	25+	50+
<b>Solder Termination - Silver Plated Contacts</b>								
6+E	Blue		C016 30H006 210 10	118-8952				
6+E	Black		C016 30K006 100 12	184-9664				
<b>Crimp Termination - Contacts sold separately</b>								
6+E	Blue		C016 30H006 210 10	118-8955				
<b>Screw Termination - Silver Plated Contacts</b>								
3+E	Blue		C016 20K003 100 10	118-8977				
3+E	Black		C016 20K003 100 12	184-9659				

## Free Socket, 3 & 6 Way + Earth

Amphenol



### Strain Relief with Clamping Ring

No. of Ways	Backshell		Mfrs. List No.	Order Code	Price Each			
	Colour				1+	10+	25+	50+
<b>Solder Termination - Silver Plated Contacts</b>								
6+E	Blue		C016 30D006 100 10	118-8956				
6+E	Black		C016 30D006 100 12	184-9653				
<b>Solder Termination - Gold Plated Contacts</b>								
6+E	Blue		C016 30D006 200 10	118-8958				
<b>Crimp Termination - Contacts sold separately</b>								
6+E	Blue		C016 10D006 000 10	118-8961				
6+E	Black		C016 10D006 000 12	184-9651				
<b>Screw Termination - Silver Plated Contacts</b>								
3+PE	Blue		C016 20D003 100 10	118-8979				
3+E	Black		C016 20D003 100 12	184-9648				
<b>Screw Termination - Gold Plated Contacts</b>								
3+E	Blue		C016 20D003 200 10	118-8981				

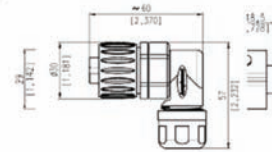
## Internal Strain Relief and Clamping Ring

435705

No. of Ways	Backshell		Mfrs. List No.	Order Code	Price Each			
	Colour				1+	10+	25+	50+
<b>Solder Termination - Silver Plated Contacts</b>								
6+E	Blue		C016 30D006 110 10	118-8957				
6+E	Black		C016 30D006 110 12	184-9654				
<b>Solder Termination - Gold Plated Contacts</b>								
6+E	Blue		C016 30D006 210 10	118-8959				
<b>Crimp Termination - Contacts sold separately</b>								
6+E	Black		C016 10D006 010 12	184-9652				
<b>Screw Termination - Silver Plated Contacts</b>								
3+PE	Blue		C016 20D003 110 10	118-8980				
3+E	Black		C016 20D003 110 12	184-9649				
<b>Screw Termination - Gold Plated Contacts</b>								
3+E	Blue		C016 20D003 210 10	118-8982				

## 90° Free Socket, 3 & 6 Way + Earth

Amphenol



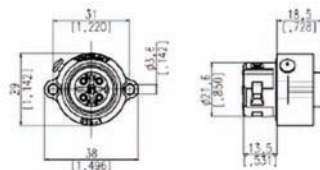
435709

### Strain Relief with Clamping Ring

No. of Ways	Backshell		Mfrs. List No.	Order Code	Price Each			
	Colour				1+	10+	25+	50+
<b>Solder Termination - Silver Plated Contacts</b>								
6+E	Blue		C016 30F006 100 10	118-8960				
6+E	Black		C016 30F006 100 12	184-9655				
<b>Crimp Termination - Contacts sold Separately</b>								
6+E	Blue		C016 10F006 000 10	118-8964				
<b>Screw Termination - Silver Plated Contacts</b>								
3+E	Blue		C016 20F003 100 10	118-8983				
3+E	Black		C016 20F003 100 12	184-9650				

## Panel Plug, 3 & 6 Way + Earth

Amphenol

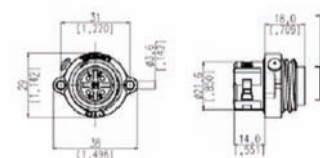


435695

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Solder Termination - Silver Plated Contacts</b>						
6+PE	C016 30C006 100 12	118-8965				
<b>Solder Termination - Gold Plated Contacts</b>						
6+E	C016 30C006 200 12	118-8966				
<b>Crimp Termination - Contacts sold separately</b>						
6+E	C016 10C006 000 12	118-8967				
<b>Screw Termination - Silver Plated Contacts</b>						
3+PE	C016 20C003 100 12	118-8984				
<b>Screw Termination - Gold Plated Contacts</b>						
3+E	C016 20C003 200 12	118-8985				

## Panel Socket, 3 & 6 Way + Earth

Amphenol



435712



No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Solder Termination - Silver Plated Contacts</b>						
6+PE	C016 30G006 100 12	118-8969				
<b>Solder Termination - Gold Plated Contacts</b>						
6+E	C016 30G006 200 12	118-8970				
<b>Crimp Termination - Contacts sold separately</b>						
6+E	C016 10G006 000 12	118-8971				
<b>Screw Termination - Silver Plated Contacts</b>						
3+PE	C016 20G003 100 12	118-8986				
<b>Screw Termination - Gold Plated Contacts</b>						
3+E	C016 20G003 200 12	118-8988				

## Accessories

### Protective Caps

	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
Panel plug	C016 00U000 000 12	122-8715				
Panel socket	C016 00V000 000 12	122-8718				
Free plug	C016 00U000 010 12	122-8714				
Free socket	C016 00V000 010 12	122-8716				

### Contacts

Contact Dia.	Wire mm <sup>2</sup>	Order Code	Price Per Pack of 10	
			1+	10+
<b>Pin Contacts - Silver Plated</b>				
1.6	0.14-0.5	180-8274		
1.6	0.5-1.5	180-8275		
<b>Socket Contacts - Silver Plated</b>				
	0.14-0.5	379-0988		
1.6	0.5-1.5	112-3500		
<b>Tooling</b>				
Crimp Tool		112-3502		1+
Einsetzwerkz.		379-1002		

## Ecomate High Voltage



- Higher rated voltage - up to 600V
- Easy and quick assembly
- One cable housing for all cable diameters (6-12.5mm)
- Ergonomically shaped for a better grip and safer handling in harsh working conditions
- Less logistics
- IP65
- Operating Temp = -40°C to +125°C

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Female Cable Connectors</b>						
3+PE	C016 10D003 806 12	184-9643				
6+PE	C016 10D006 806 12	184-9644				
<b>Male Receptacle</b>						
3+PE	C016 10P003 806 12	184-9641				
6+PE	C016 10P006 806 12	184-9642				
<b>Crimp Pins</b>						
AWG	Mfrs. List No.	Order Code	1+	5+	10+	
16-20	VN01 016 0002 (1)	184-9646				
20-26	VN01 016 0003 (1)	184-9647				

## C16-3 Series Plastic Circular



- Robust, lightweight plastic circular connectors
- Bayonet locking
- Supplied with strain relief and PG cable for conduit fixing
- Sealed to IP65
- Pre-leading earth contact (PE)
- Suitable for use where power and control is required through one connection
- Applications include machine tools, measurement and control, process technology, medical equipment
- VDE and CSA approved, UL Recognised

Contact plating	Silver
Mating cycles	>500
Operating temperature	-40°C to 125°C
Protection	IP65
Housing	Polyamide 6.6

## Amphenol

## Amphenol

**NEW**

## Amphenol

	Shell Size 1		Shell Size 2	
	8 + PE	14 + PE	5 + PE	12 + PE
Current rating	12A	11 x 6A, 4 x 18A	12A	12A
Voltage rating	400V	400V	400V	400V
Termination	Crimp	Crimp	Crimp	Crimp
Contact diameter	1.6	1.5 & 2.5	1.5 & 1.6	1.5
Conductor size (mm <sup>2</sup> )	0.14 -1.5	0.5 -1.5	0.5 -1.5	0.14 -1.0

	Shell Size 1		Shell Size 2	
	5 + PE	12 + PE	14 + PE	19 + PE
Current rating	21A	12A	12A	12A
Voltage rating	400V	400V	400V	400V
Termination	Screw	Crimp	Crimp	Crimp
Contact diameter	n/a	1.6 & 2.5	1.5 & 1.6	1.5
Conductor size (mm <sup>2</sup> )	4 max.	0.14 -2.5	0.5 -1.5	0.14 -1.0

No. of Ways	Shell Size	Order Code	Price Each		
			1+	25+	100+
<b>Free Plug</b>					
8+1	1	112-3455			
14+1	1	112-3456			
17+1	1	112-3459			
5+1	2	112-3461			
<b>Free Socket</b>					
8+1	1	112-3463			
14+1	1	112-3465			
17+1	1	112-3466			
5+1	2	112-3467			
12+1	2	112-3468			
<b>Panel Plug</b>					
8+1	1	112-3472			
5+1	2	112-3475			
<b>Panel Socket</b>					
8+1	1	112-3479			
14+1	1	112-3480			
17+1	1	112-3481			
5+1	2	112-3482			
12+1	2	112-3483			
<b>Protective Cap</b>					
<b>Free Plug</b>					
	1	112-3484			
	2	112-3485			
<b>Free Socket</b>					
	1	112-3487			
<b>Panel Plug</b>					
	1	112-3489			
	2	112-3492			
<b>Panel Socket</b>					
	1	112-3493			
	2	112-3495			
<b>Tooling</b>					
<b>Ratchet Crimp Tool</b>					
		379-0988			
<b>Insertion/Extraction Tools</b>					
<b>Contact Dia.</b>					
1.6		112-3500			
2.5		379-0976			

Contact Dia.	Wire mm <sup>2</sup>	Order Code	Price Per Pack of 10	
			1+	10+
<b>Pin Contacts</b>				
1.5	0.14-0.5	112-3497		
1.6	0.14-0.5	112-3499		
2.5	0.5-1.5	112-3503		
1.6	0.5-1.5	112-3501		
<b>Socket Contacts</b>				
1.5	0.14-0.5	991-2525		
1.6	0.14-0.5	112-3502		
	0.5-1.5	379-1002		
2.5	0.5-1.5	112-3504		

# Circular Multipole - continued

## C16-3 High Current

Amphenol



NEW

- Higher current carrying capacity - up to 41A
- Vibration safe connection by solid bayonet coupling with lock-in position
- No special tools required - screw termination
- Lightweight, economic plastic housing
- IP65
- Wire gauge 2.5-6mm<sup>2</sup>. Cable dia. 11-20mm
- Operating Temp = -25°C to +100°C
- Applications - PV systems, machine tools, general high current applications

618774

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	50+
<b>Female Cable Connector, Standard Bayonet Lock</b>						
4+PE	C016 20E004 8002	184-9639				
<b>Female Cable Connector, Secured Bayonet Lock (DIN VDE 0126-3)</b>						
4+PE	C016 20E004 80 12	189-1149				
<b>Male Receptacle, Standard Bayonet Lock</b>						
4+PE	C016 20P004 8002	184-9640				
<b>Male Cable Connector, Secured Bayonet Lock (DIN VDE 0126-3)</b>						
4+PE	C016 20P004 80 12	189-1150				

## RT360 Series

Amphenol



NEW

- Shell material: Zinc alloy
- Operating temperature: -40°C to +105°C
- Inserts: Glass filled thermoplast **UL94-V0**
- Waterproof (IP67) when mated with sealed backshell
- Vibration Resistance - MIL-STD202 method 204
- Thermal Shock - MIL-STD202 method 207

637880

No. of Ways	Shell Size	Mftrs. List No.	Order Code	1+	10+	25+	50+	100+
<b>Plug, Cable Mount, Pin Contacts</b>								
4 VDE	10	RT0610-2PNH	190-1306					
4	10	RT0610-4PNH	190-1307					
6	10	RT0610-6PNH	190-1309					
3	12	RT0612-3PNH	190-1311					
8	12	RT0612-8PNH	190-1312					
10	12	RT0612-10PNH	190-1313					
4 VDE	14	RT0614-2PNH	190-1314					
4	14	RT0614-4PNH	190-1315					
12	14	RT0614-12PNH	190-1316					
19	14	RT0614-19PNH	190-1317					
4 VDE	16	RT0616-4PNH	190-1318					
19	16	RT0616-19PNH	190-1319					
26	16	RT0616-26PNH	190-1320					
8	18	RT0618-8PNH	190-1322					
23	18	RT0618-23PNH	190-1323					
32	18	RT0618-32PNH	190-1324					
<b>Plug, Cable Mount, Socket Contacts</b>								
4 VDE	10	RT0610-2SNH	190-1325					
4	10	RT0610-4SNH	190-1326					
6	10	RT0610-6SNH	190-1327					
3	12	RT0612-3SNH	190-1328					
8	12	RT0612-8SNH	190-1329					
10	12	RT0612-10SNH	190-1330					
4 VDE	14	RT0614-2SNH	190-1331					
4	14	RT0614-4SNH	190-1332					
12	14	RT0614-12SNH	190-1334					
19	14	RT0614-19SNH	190-1335					
4 VDE	16	RT0616-4SNH	190-1336					
19	16	RT0616-19SNH	190-1337					
26	16	RT0616-26SNH	190-1338					
8	18	RT0618-8SNH	190-1339					
23	18	RT0618-23SNH	190-1340					
32	18	RT0618-32SNH	190-1341					
<b>Receptacles, Panel Mount, Pin Contacts</b>								
4 VDE	10	RT0010-2PNH	190-1342					
4	10	RT0010-4PNH	190-1343					
6	10	RT0010-6PNH	190-1344					
3	12	RT0012-3PNH	190-1346					
8	12	RT0012-8PNH	190-1347					
10	12	RT0012-10PNH	190-1348					
4 VDE	14	RT0014-2PNH	190-1349					
4	14	RT0014-4PNH	190-1350					
12	14	RT0014-12PNH	190-1351					
19	14	RT0014-19PNH	190-1352					

No. of Ways	Shell Size	Mftrs. List No.	Order Code	1+	10+	25+	50+	100+
<b>Receptacles, Panel Mount, Pin Contacts</b>								
4 VDE	16	RT0016-4PNH	190-1353					
19	16	RT0016-19PNH	190-1354					
26	16	RT0016-26PNH	190-1355					
8	18	RT0018-8PNH	190-1356					
23	18	RT0018-23PNH	190-1358					
32	18	RT0018-32PNH	190-1359					
<b>Receptacles, Panel Mount, Socket Contacts</b>								
4 VDE	10	RT0010-2SNH	190-1360					
4	10	RT0010-4SNH	190-1361					
6	10	RT0010-6SNH	190-1362					
3	12	RT0012-3SNH	190-1363					
8	12	RT0012-8SNH	190-1364					
10	12	RT0012-10SNH	190-1365					
4 VDE	14	RT0014-2SNH	190-1366					
4	14	RT0014-4SNH	190-1367					
12	14	RT0014-12SNH	190-1368					
19	14	RT0014-19SNH	190-1371					
4 VDE	16	RT0016-4SNH	190-1372					
19	16	RT0016-19SNH	190-1373					
26	16	RT0016-26SNH	190-1374					
8	18	RT0018-8SNH	190-1375					
23	18	RT0018-23SNH	190-1376					
32	18	RT0018-32SNH	190-1377					

No. of Ways	Shell Size	Mftrs. List No.	Order Code	1+	10+	25+	50+	100+
<b>Receptacle, Jam Nut, Pin Contacts</b>								
4 VDE	10	RT0710-2PNH	190-1378					
4	10	RT0710-4PNH	190-1379					
6	10	RT0710-6PNH	190-1380					
3	12	RT0712-3PNH	190-1381					
8	12	RT0712-8PNH	190-1383					
10	12	RT0712-10PNH	190-1384					
4 VDE	14	RT0714-2PNH	190-1385					
4	14	RT0714-4PNH	190-1386					
12	14	RT0714-12PNH	190-1387					
19	14	RT0714-19PNH	190-1388					
4 VDE	16	RT0716-4PNH	190-1389					
19	16	RT0716-19PNH	190-1390					
26	16	RT0716-26PNH	190-1391					
8	18	RT0718-8PNH	190-1392					
23	18	RT0718-23PNH	190-1393					
32	18	RT0718-32PNH	190-1395					
<b>Receptacle, Jam Nut, Socket Contacts</b>								
4 VDE	10	RT0710-2SNH	190-1396					
4	10	RT0710-4SNH	190-1397					
6	10	RT0710-6SNH	190-1398					
3	12	RT0712-3SNH	190-1399					
8	12	RT0712-8SNH	190-1401					
10	12	RT0712-10SNH	190-1402					
4 VDE	14	RT0714-2SNH	190-1403					
4	14	RT0714-4SNH	190-1404					
12	14	RT0714-12SNH	190-1405					
19	14	RT0714-19SNH	190-1406					
4 VDE	16	RT0716-4SNH	190-1407					
19	16	RT0716-19SNH	190-1408					
26	16	RT0716-26SNH	190-1409					
8	18	RT0718-8SNH	190-1410					
23	18	RT0718-23SNH	190-1411					
32	18	RT0718-32SNH	190-1413					

## RT360 Series Accessories

Amphenol



Gasket



Contact



Cord Grip

NEW

637881

Shell Size	Mftrs. List No.	Order Code	1+	10+	25+	50+	100+
<b>Gaskets</b>							
10		RTFD10B	190-1414				
12		RTFD12B	190-1415				
14		RTFD14B	190-1416				
16		RTFD16B	190-1417				
18		RTFD18B	190-1418				
<b>Sealing Plug</b>							
20	CA-4020-59	190-1419					
16	CA-4016-59	190-1420					

Shell Size	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
<b>Cord Grips</b>							
10	RTOL-10CG-S1	190-1421					
10	RTOL-10CG-S2	190-1422					
12	RTOL-12CG-S1	190-1423					
12	RTOL-12CG-S2	190-1425					
14	RTOL-14CG-S1	190-1426					
14	RTOL-14CG-S2	190-1427					
16	RTOL-16CG-S1	190-1428					
16	RTOL-16CG-S2	190-1429					
18	RTOL-18CG-S1	190-1430					
18	RTOL-18CG-S2	190-1431					
10	RT0B-10CG-S1	190-1432					
10	RT0B-10CG-S2	190-1433					
12	RT0B-12CG-S1	190-1434					
12	RT0B-12CG-S2	190-1435					
14	RT0B-14CG-S1	190-1437					
14	RT0B-14CG-S2	190-1438					
16	RT0B-16CG-S1	190-1439					
16	RT0B-16CG-S2	190-1440					
18	RT0B-18CG-S1	190-1441					
18	RT0B-18CG-S2	190-1442					
<b>Dust Caps</b>							
10	RT010DCG	190-1443					
12	RT012DCG	190-1444					
14	RT014DCG	190-1445					
16	RT016DCG	190-1446					
18	RT018DCG	190-1447					
<b>Stamped &amp; Formed Contacts</b>							
Size	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
<b>Pin Contacts</b>							
2.5mm	SP12A1T	190-1457					
#16 / 24-26 AWG	SP24M1F	190-1459					
#16 / 20-22 AWG	SP20M1F	190-1462					
#16 / 16-18 AWG	SP16M1F	190-1464					
#16 / 14 AWG	SP14M1F	190-1466					
#20 / 20-22 AWG	SP20W1F	190-1468					
#20 / 28-30 AWG	SP28W1F	190-1470					
<b>Socket Contacts</b>							
2.5mm	SS12A1T	190-1458					
#16 / 24-26 AWG	SS24M1F	190-1460					
#16 / 20-22 AWG	SS20M1F	190-1463					
#16 / 16-18 AWG	SS16M1F	190-1465					
#16 / 14 AWG	SS14M1F	190-1467					
#20 / 20-22 AWG	SS20W1F	190-1469					
#20 / 28-30 AWG	SS28W1F	190-1471					
<b>Extraction Tools</b>							
16AWG	QXRT16	190-1451		1+	5+		
20AWG	QXRT20	190-1449					
2.5mm	QXRT12	190-1452					
<b>Crimp Tool - Stamped and Formed Contacts</b>							
16AWG	MF3-3954	190-1453					
20AWG	MF3-3958	190-1454					
2.5mm	MF3-3962	190-1455					
<b>Hand Crimp Tool - Machined Contacts</b>							
-	MF3-3959	190-1456					

## Barracuda

Environmentally Sealed Connectors - IP68



The Barracuda range of environmental IP68 sealed connectors is specifically designed for harsh applications where water, dust, oil or spray is present. These moulded connectors feature enhanced ergonomics and ruggedised mouldings.

- Sealed to IP68 when mated
- Overall diameter 38mm
- Free socket mates with in-line or panel plugs
- Free plug mates with in-line or panel sockets

- Screw termination 3, 4, 6 and 7 way
- Interchangeable plug or socket inserts
- Housing resistant to dust, oil and salt water
- Leading earth contact for 3 pole socket version
- UL approved materials

Amphenol

## Specification

Ratings	5A, 50V AC/DC	Body mouldings	Glass Filled Nylon
3 way	6A, 250V AC/DC	Flammability Ratings	UL94HB (Gehäuse), UL94V-0 (Einsätze)
4 way	3A, 250V AC/DC	Contacts	Screw terminal, Brass Nickel plated
6,7 way		Cable Acceptance	6 - 8mm
Contact Resistance	5mohm		
Insulation Resistance	≥10000Mohm (@50V ac)		
Operating temp. range	-20°C to 70°C		

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
<b>Free Plug</b>						
3	BAR0731P-IP68	130-8080				
4	BAR0748P-IP68	130-8081				
<b>Free Socket</b>						
3	BAR0731S-IP68	130-8084				
6	BAR0739S-IP68	130-8086				
<b>In-Line Plug</b>						
3	BAR0732P-IP68	130-8089				
<b>In-Line Socket</b>						
3	BAR0732S-IP68	130-8093				
4	BAR0749S-IP68	130-8094				
6	BAR0740S-IP68	130-8095				
<b>Jam Nut Panel Socket</b>						
6	BAR0738S-IP68	130-8104				
<b>Cap Kit</b>						
Panel & In-	BAR0733-IP68					
Line		130-8107				
Free	BAR0734-IP68	130-8108				

## Industrial Micro Connector

### Crimp 2 to 12 way

- A cost effective micro connector range
- For use in harsh environment
- 2 Shell sizes, 3 contact sizes
- Positive twist lock, bayonet type
- Sealing IP67
- Approval UL Recognised, CSA and VDE pending

Contact rating	See contact specs	Temperature range	-55°C to +175°C
Operating voltage	750-1000Vrms	Housing	Ultem 10UL94V-0
Insulation resistance	1000mΩ2min		

### Series 100



- Contact size 20 (2 & 3 way), 22 (4 way)

No. of Ways	Mfrs. List No.	Order Code	1+	25+	100+	250+
<b>Inline Plug</b>						
2	IMC16-2002X	101-9226				
3	IMC16-2003X	101-9227				
4	IMC16-2204X	101-9228				
<b>Inline Receptacle</b>						
2	IMC11-2002X	101-9229				
3	IMC11-2003X	101-9230				
4	IMC11-2204X	101-9231				
<b>Flange Receptacle</b>						
2	IMC14-2002X-961D	101-9232				
3	IMC14-2003X	101-9233				
4	IMC14-2204X	101-9234				
<b>Accessories</b>						
Pro-cap, plug	IMC 18	101-9255				
Pro-cap, recep.	IMC 19	101-9256				
Adaptor	IMC 1AD	101-9258				

### TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at [farnell.com](http://farnell.com)

# Circular Multipole - continued

209182

## Series 200



- Contact size 16 (2 way), 20 (5 & 7 way), 22 (12 way)

219728

No. of Ways	Mfrs. List No.	Order Code	1+	25+	100+	250+	Price Each
<b>Inline Plug</b>							
2	IMC26-1602X	101-9236					
5	IMC26-2005X	101-9237					
7	IMC26-2007X	101-9238					
12	IMC26-2212X	101-9239					
<b>Inline Receptacle</b>							
5	IMC21-2005X	101-9240					
7	IMC21-2007X	101-9241					
12	IMC21-2212X	101-9242					
<b>Flange Receptacle</b>							
2	IMC24-1602X	101-9243					
5	IMC24-2005X	101-9244					
7	IMC24-2007X	101-9245					
12	IMC24-2212X	101-9246					
<b>Accessories</b>							
Boot, PVC							
4.19mm	681020012165961D	207-2426					
6.35mm	681020012250961D	207-2428					
Pro-cap, receptacle	IMC29	101-9257					
Adaptor	IMC 2AD	101-9261					

## Contacts & Crimp Tools for 'IMC' Series



- Machined contacts, copper alloy with gold over nickel plating

Socket Contact L=13.36 max  
Pin Contact L=13.64 max

Contact rating	1000 750 Vrms, (size 22)	20-24AWG (Size 20)	Material	Copper Alloy, Gold over Nickel plating
	1000 1000 Vrms, (Size 20)	16-20AWG (Size 16)		
	1000 1000 Vrms (Size 16)			
Wire gauge	20-24AWG (Size 22)			

209181

Order Multiple=10			Price Each			
Contact Size	Mfrs. List No.	Order Code	10+	100+	250+	
<b>Machined Contacts</b>						
<b>Pin Crimps</b>						
16	6860-201-16278	101-9248				
20	6860-201-20278	101-9249				
22	6860-201-22278	101-9250				
<b>Socket Crimps</b>						
16	6862-201-16278	101-9251				
20	6862-201-20278	101-9252				
22	6862-201-22278	101-9253				
<b>Crimp Tools</b>						
16	AMSC16/A/1	214-2392				
20	AMSC20/1	214-2391				
22	AMSC22/1	214-2393				

## IMC Tooling



Crimp tool 890-376

Extraction tool

Contact Size	Mfrs. List No.	Order Code	Price Each
<b>Crimp Tools</b>			
16,20	AF8	890-376	1+
22	MH860	105-992	
<b>Positioners</b>			
16,20	TH163	890-388	
22	86-5	314-2978	
<b>Insertion/Extraction Tools</b>			
16	6757-201-1601	890-340	
20	6757-201-2001	890-352	
22	6757-201-2201	890-364	

## Quick Connect



- Quick latch mechanism
- Universal mounting
- Standard sealing O-ring
- Constructed with Ultem®, a high temperature resistant composite material
- Ideal for most rigorous applications

Quick connect series of 2,7 and 12 way composite connectors are chemical resistant and environmentally sealed to IP68.

Current Rating 2 Way = 13 A 7 Way = 3 and 7 A 12 way = 5 A Insulation resistance >MΩ

Operating Temperature	-55 to 150	
Mfrs. List No.	QC26-1602X = 152-0332	QC205P = 152-0338
QC24-1602X = 152-0329	QC26-2007X = 152-0333	0413-204-2005. = 152-0348
QC24-2007X = 152-0330	QC210N-L = 152-0336	600300-22 = 152-0351
QC24-2212X = 152-0331		

Uses IMC Series contacts

495591

Description	Order Code	1+	10+	50+	100+	Price Each
<b>Receptacles</b>						
2 Way Receptacle	152-0329					
7 Way Receptacle	152-0330					
12 Way Receptacle	152-0331					
<b>Plugs</b>						
2 Way Plug	152-0332					
7 Way Plug	152-0333					
Backshell	152-0336					
Panel nut and Washer	152-0338					
<b>Wire Seal</b>						
7 Way Wire Seal Filler Plug	152-0348					
12 Way Wire Seal Filler Plug	152-0351					

## 400 Series Micro Buccaneer Cable Connector



- Mates with flex in-line or chassis mounting versions (PX0411, PX0412 and PX0413)
- Contacts supplied separately

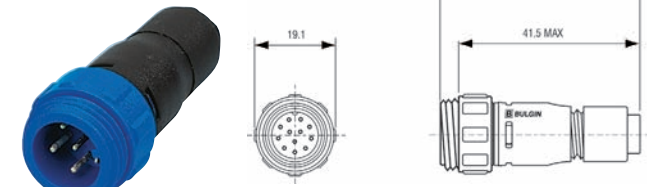
No. Ways	Current Rating (A)	Cable OD	No. Ways	Current Rating (A)	Cable OD
2	8	5.5mm to 6.0mm	8	5	6.0mm to 6.5mm
3	8	5.5mm to 6.0mm	10	1	6.0mm to 6.5mm
4	5	4.5mm to 5.0mm	12	1	6.0mm to 6.5mm
6	5	4.5mm to 5.0mm			

231711

No. of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+	Price Each
<b>Cable Plugs</b>								
2	PX0410/02P/5560	384-0918						
3	PX0410/03P/5560	384-0920						
4	PX0410/04P/4550	384-0931						
6	PX0410/06P/4550	384-0943						
8	PX0410/08P/6065	384-0955						
10	PX0410/10P/6065	384-0967						
12	PX0410/12P/6065	384-0979						

No. of Ways	Mfrs. List No.	Order Code	Price Each				
			1+	25+	50+	100+	250+
<b>Cable Sockets</b>							
2	PX0410/02S/5560	384-0840					
3	PX0410/03S/5560	384-0852					
4	PX0410/04S/4550	384-0864					
6	PX0410/06S/4550	384-0876					
8	PX0410/08S/6065	384-0888					
10	PX0410/10S/6065	384-0890					
12	PX0410/12S/6065	384-0906					

### 400 Series Micro Buccaneer In-Line Cable Connector



- Mates with PX0410
- Contacts supplied separately

No. Ways	Current Rating (A)	Cable OD	No. Ways	Current Rating (A)	Cable OD
2	8	5.5mm to 6.0mm	8	5	6.0mm to 6.5mm
3	8	5.5mm to 6.0mm	10	1	6.0mm to 6.5mm
4	5	4.5mm to 5.0mm	12	1	6.0mm to 6.5mm
6	5	4.5mm to 5.0mm			

No. Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
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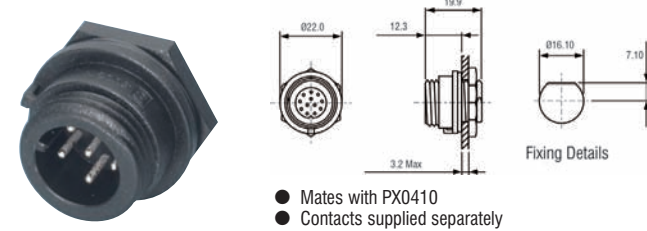
#### In-Line Cable Plugs

2	PX0411/02P/5560	384-0980					
3	PX0411/03P/5560	384-0992					
4	PX0411/04P/4550	384-1005					
6	PX0411/06P/4550	384-1017					
8	PX0411/08P/6065	384-1029					
10	PX0411/10P/6065	384-1030					
12	PX0411/12P/6065	384-1042					

#### In-Line Cable Sockets

2	PX0411/02S/5560	384-1054					
3	PX0411/03S/5560	384-1066					
4	PX0411/04S/4550	384-1078					
6	PX0411/06S/4550	384-1080					
8	PX0411/08S/6065	384-1091					
10	PX0411/10S/6065	384-1108					
12	PX0411/12S/6065	384-1110					

### 400 Series Micro Buccaneer Front Panel Mount



- Mates with PX0410
- Contacts supplied separately

No. Ways	Current Rating (A)	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
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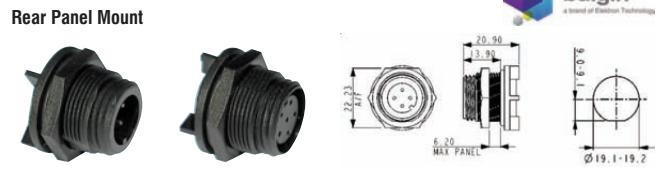
#### Chassis Mounting Plugs

2	8	PX0412/02P	384-1121					
3	8	PX0412/03P	384-1133					
4	5	PX0412/04P	384-1145					
6	5	PX0412/06P	384-1157					
8	5	PX0412/08P	384-1169					
10	1	PX0412/10P	384-1170					
12	1	PX0412/12P	384-1182					

#### Chassis Mounting Sockets

2	8	PX0412/02S	384-1194					
3	8	PX0412/03S	384-1200					
4	5	PX0412/04S	384-1212					
6	5	PX0412/06S	384-1224					
8	5	PX0412/08S	384-1236					
10	1	PX0412/10S	384-1248					
12	1	PX0412/12S	384-1250					

### 400 Series Micro Buccaneer Rear Panel Mount



- Mates with PX0410
- Contacts supplied separately

No. Ways	Current Rating (A)	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
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#### Chassis Mounting Plugs

2	8	PX0413/02P	134-7626					
3	8	PX0413/03P	134-7628					
4	5	PX0413/04P	134-7629					
6	5	PX0413/06P	134-7630					
8	5	PX0413/08P	134-7631					
10	1	PX0413/10P	134-7632					
12	1	PX0413/12P	134-7633					

#### Chassis Mounting Sockets

2	8	PX0413/02S	134-7634					
3	8	PX0413/03S	134-7635					
4	5	PX0413/04S	134-7636					
6	5	PX0413/06S	134-7637					
8	5	PX0413/08S	134-7638					
10	1	PX0413/10S	134-7641					
12	1	PX0413/12S	134-7642					

### 400 Series Micro Buccaneer Rear PCB Chassis Mount



- Mates with PX0410
- Straight PC spills
- Supplied with contacts

Mfrs. List No.	No. of Ways	Current Rating (A)	Order Code	1+	25+	50+	100+	250+
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#### Plugs

PX0413/02P/PC	2	8	110-2875					
PX0413/03P/PC	3	8	110-2877					
PX0413/04P/PC	4	5	840-6588					
PX0413/06P/PC	6	5	840-6600					
PX0413/08P/PC	8	5	840-6626					
PX0413/10P/PC	10	1	110-2879					
PX0413/12P/PC	12	1	110-2881					

#### Sockets

PX0413/02S/PC	2	8	110-2876					
PX0413/03S/PC	3	8	110-2878					
PX0413/04S/PC	4	5	840-6596					
PX0413/06S/PC	6	5	840-6618					
PX0413/08S/PC	8	5	840-6634					
PX0413/10S/PC	10	1	110-2880					
PX0413/12S/PC	12	1	110-2882					

### 400 Series Micro Buccaneer Contacts

- Gold plated contacts
- Supplied in packs of 10

Contacts	AWG	Mfrs. List No.	Order Code	1+	10+	50+	100+
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#### Crimp Contacts (pk 10)

8A Socket	20 - 24AWG	SA3349	384-1315				
8A Pin	20 - 24AWG	SA3350	384-1327				
5A Socket	22 - 26AWG	SA3347	384-1339				
5A Pin	22 - 26AWG	SA3348	384-1340				
1A Socket	24 - 28AWG	SA3179	560-911				
1A Pin	24 - 28AWG	SA3180	560-900				

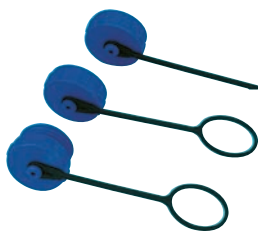
#### Solder Contacts (pk 10)

8A Socket	20 - 24AWG	SA3349/1	384-1376				
8A Pin	20 - 24AWG	SA3350/1	384-1388				
5A Socket	22 - 26AWG	SA3347/1.	384-1390				
5A Pin	22 - 26AWG	SA3348/1.	384-1406				
1A Socket	24 - 28AWG	SA3179/1	561-290				
1A Pin	24 - 28AWG	SA3180/1	561-289				

# Circular Multipole - continued

## 400 Series Micro Buccaneer

### Accessories and Tooling



- Sealing caps maintain IP68 rating of unmated connectors
- Each gland pack contains four colour coded glands:

PX0482	Colour	PX0483	Colour
Size 3.0-3.5mm	Light Grey	Size 5.0mm -5.5mm	Yellow
3.5-4.0mm	Grey	5.5-6.0mm	Blue
4.0-4.5mm	Green	6.0-6.5mm	White
4.5-5.0mm	Red	6.5-7.0mm	Black

231728/406562

Mfrs. List No.	Order Code	1+	25+	50+	100+
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#### Sealing Caps

Sealing cap for PX0410	PX0481	384-1261			
Sealing cap for PX0411	PX0480/1	384-1273			
Sealing cap for PX0412	PX0480	384-1285			
Sealing cap for PX0413	PX0484	840-6642			

#### Gland Packs

Gland pack, 3.0 to 5.0mm O/D PX0482	384-1297				
Gland pack, 5.0 to 7.0mm O/D PX0483	384-1303				

Mfrs. List No.	Order Code	1+	Price Each
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#### Contact Insertion Tools

For 1A contacts, 24-28AWG	13027	384-1431	
For 5A contacts, 22-26AWG	13027/1	384-1443	
For 8A contacts, 20-24AWG	13027/2	384-1455	

#### Crimp Tooling

Crimp Tool	14025	384-1492	
Positioner for 1A crimp contacts	14025/1AMP	208-2887	
Positioner for 5A crimp contacts	14025/5AMP	384-1479	
Positioner for 8A crimp contacts	14025/8AMP	384-1480	

## 'Mini Buccaneer' Threaded Coupling 5A

### IP68



Free body with 8 way pin carrier  
L=57.1, Dia=25.5

In line body with 3 way socket carrier  
L=49.7, Dia=25.5

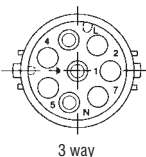
Sealing cap  
241-283



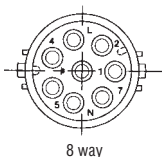
Slimline chassis body with 8 way socket carrier  
D (front panel)=23.5, Dia=26.9 max,

Chassis body with 3 way socket carrier  
D (front panel)=23.5, W=40.5 max.

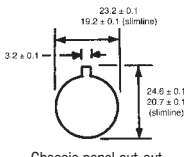
Right angle chassis body with 8 way socket carrier  
D (front panel)=37.8, L=44.0



3 way Socket configuration rear view



8 way



Chassis panel cut-out Panel Thickness=1.5 to 6.0

- Sealed to IP68
- Free body mates with either in-line or chassis bodies
- Gold plated machined contacts, solder bucket termination
- Five bodies which accepts 3 or 8 way pin or socket carriers, snap-fit
- 3 way screw terminals (pre-loaded) insert
- Polarising blanking pin for socket carriers

**Note:** Always wire socket carrier to power source and pin carrier to load. For correct sealing ensure all surfaces are free from contamination (dust, grease, etc.)

Contact rating: Solder Terminal	5A @ 380V	6 way screw terminal	3A @ 150V
3 & 8 way solder / crimp terminal	10A @ 250V	Contact resistance	5mohm max.
2 & 3 way screw terminal	6A @ 250V	Insulation resistance	min.
4 way screw terminal		Breakdown voltage	2000V ac

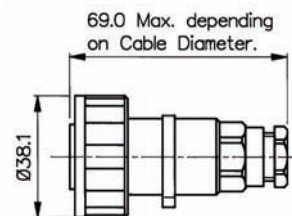
Temperature range -20°C to +70°C  
Cable Dia 5-7mm  
Housing Black NylonUL94V-0  
Contacts: Solder: Copper alloy, gold on nickel plating

Screw: Brass, nickel plated  
Wire size: 1mm<sup>2</sup>  
Screw 1mm<sup>2</sup>  
Solder 0.2-1mm<sup>2</sup>

209039

Order Code	Price Each						
	1+	10+	50+	100+	250+	500+	
<b>Bodies</b>							
Free	225-770						
In-line	225-782						
Chassis (slimline)	240-321						
Chassis	225-794						
Right angle chassis	225-800						
<b>Carrier Inserts</b>							
3 way pin	225-812						
8 way pin	225-824						
3 way socket	225-836						
8 way socket	225-848						
BNC 50Ω Plug	384-9200						
BNC 50Ω Socket	384-9211						
<b>Screw Terminal Inserts</b>							
2 way plug	384-4699						
2 way socket	384-4687						
3 way plug	978-073						
3 way socket	978-061						
4 way plug	307-3210						
4 way socket	307-3221						
6 way plug	307-3233						
6 way socket	307-3245						
<b>Sealing Cap</b>							
To fit free body	241-271						
To fit other bodies	241-283						
<b>Contact Insertion Tool</b>							
	225-873						
<b>Price Per Pack</b>							
		1+	10+	50+	100+	250+	500+
Pin	225-885						
Sockets	225-897						
<b>Polarising/Blanking Pin</b>							
	225-903						

## 'Buccaneer' Free Connectors

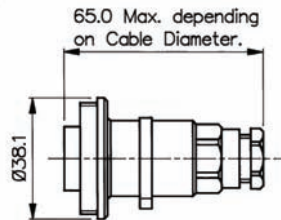


- Free Cable Connector
- Mates with In-Line Connector or Panel Mounting versions
- Screw locking ring

381523

Mfrs. List No.	Current	Ways Rating (A)	Order Code	1+	10+	50+	100+	250+	500+
<b>Plugs</b>									
PX0736/P	2	10	314-183						
PX0731/P	3	10	314-195						
PX0748/P	4	6	626-284						
PX0739/P	6	3	314-201						
PX0745/P	7	10	626-030						
PX0728/P	9	5	469-683						
PX0794/P	12	5	840-6766						
PX0820/P	25	1	560-844						
<b>Sockets</b>									
PX0736/S	2	10	314-213						
PX0731/S	3	10	314-225						
PX0748/S	4	6	626-375						
PX0739/S	6	3	314-237						
PX0745/S	7	3	626-090						
PX0728/S	9	5	469-695						
PX0794/S	12	5	840-6774						
PX0820/S	25	1	560-856						

### 'Buccaneer' In-Line Connector - IP68



- In-line Cable Connector
- Mates with Free Connector
- Pin or socket versions

381540

Mfrs. List No.	No. of Ways	Current Rating (A)	Order Code	Price Each					
				1+	10+	50+	100+	250+	500+

#### In-Line Connectors

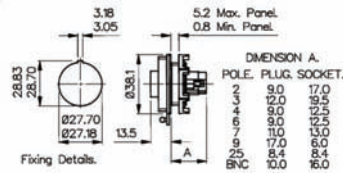
##### Plugs

PX0737/P	2	10	314-304						
PX0732/P	3	10	314-316						
PX0749/P	4	6	626-417						
PX0740/P	6	3	314-328						
PX0746/P	7	3	626-120						
PX0729P	9	5	469-725						
PX0795/P	12	5	840-6782						
PX0821/P	25	1	560-881						

##### Sockets

PX0737/S	2	10	314-330						
PX0732/S	3	10	314-341						
PX0749/S	4	6	626-508						
PX0740/S	6	3	314-353						
PX0746/S	7	3	626-132						
PX0729S	9	5	469-737						
PX0795/S	12	5	840-6790						
PX0821/S	25	1	560-893						

### 'Buccaneer' Panel Connector - IP68



- Panel Mounting Connector
- Mates with Free Connector
- Single nut fixing
- Supplied with sealing gasket

381547

Mfrs. List No.	No. of Ways	Current Rating (A)	Order Code	Price Each					
				1+	10+	50+	100+	250+	500+

#### Panel (A)

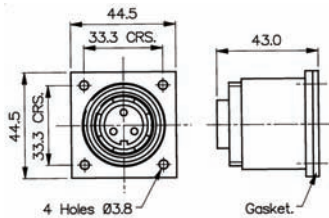
##### Plugs

PX0735/P	2	10	314-249						
PX0730/P	3	10	314-250						
PX0747/P	4	6	626-170						
PX0738/P	6	3	314-262						
PX0744/P	7	3	624-652						
PX0727/P	9	5	469-701						
PX0796/P	12	5	840-6804						
PX0822/P	25	1	560-868						

##### Sockets

PX0735/S	2	10	314-274						
PX0730/S	3	10	314-286						
PX0747/S	4	6	626-181						
PX0738/S	6	3	314-298						
PX0744/S	7	3	626-028						
PX0727/S	9	5	469-713						
PX0796/S	12	5	840-6812						
PX0822/S	25	1	560-870						

### 'Buccaneer' Bulkhead Connector - IP68



- Bulkhead Mounting
- Mates with Free Connector

- Screw fixing flange
- Supplied with neoprene gasket

381553

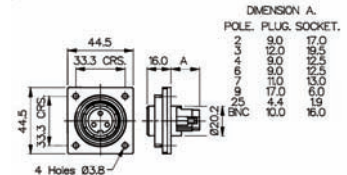
Mfrs. List No.	No. of Ways	Current Rating (A)	Order Code	Price Each			
				1+	10+	50+	100+

#### Bulkhead

##### Sockets

PX0757/S	2	10	314-365				
PX0756/S	3	10	314-377				
PX0758/S	6	3	314-389				

### 'Buccaneer' Flange Connector - IP68



- Low Profile Flange Mounting
- Mates with Free Connector

- Screw flange fixing
- Supplied with neoprene gasket

381557

Mfrs. List No.	No. of Ways	Current Rating (A)	Order Code	Price Each			
				1+	10+	50+	100+

#### Flange Mounting

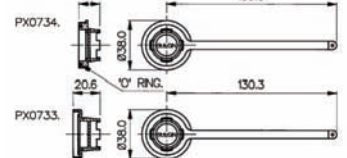
##### Plugs

PX0764/P	2	10	977-986				
PX0765/P	3	10	978-000				
PX0767/P	6	3	978-024				
PX0769/P	9	5	978-048				

##### Sockets

PX0764/S	2	10	977-998				
PX0765/S	3	10	978-012				
PX0767/S	6	3	978-036				
PX0769/S	9	5	978-050				

### 'Buccaneer' Sealing Caps - IP68



- Sealing Cap to maintain IP68 rating of un-mated connectors
- Three styles, one for Free, one for In-Line and Panel styles and one for PCB style
- Doubles as assembly tool to fit inserts

381570

Mfrs. List No.	Order Code	1+	10+	50+	100+	250+	500+
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#### To Fit Free Connector

PX0734	314-407						
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#### To Fit Free In-Line And Panel Connectors

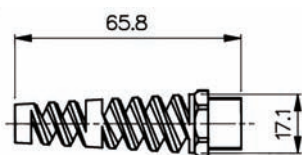
PX0733	314-390						
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#### To Fit PCB Connector

PX0711	840-6758						
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## Circular Multipole - continued

### 'Buccaneer' Cable Support - IP68



- Cable Support accessory
- Suitable for 5-7mm and 7-9mm cable diameters
- Gives extra support to the cable

381572

Mftrs.	Order Code	1+	25+	50+	100+	250+	500+
List No.							

#### Cable Support Accessory

12237	314-419						
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### 'Buccaneer' 12 and 25 Way Contacts



- Gold plated contacts for 12 & 25 way inserts
- Crimp or Solder termination
- Pins or Sockets
- Contacts sold in packs of 10

381573

Mftrs.	Connector	Order Code	1+	10+	50+	100+	250+	500+
List No.	Type							

#### Crimp Pins (10 PK)

SA3348	12 way	384-1340						
SA3180	25 way	560-900						

#### Solder Pins (10 PK)

SA3348/1	12 way	384-1406						
SA3180/1	25 way	561-289						

#### Crimp Sockets (10 PK)

SA3347	12 way	384-1339						
SA3179	25 way	560-911						

#### Solder Sockets (10 PK)

SA3347/1	12 way	384-1390						
SA3179/1	25 way	561-290						

### Standard Buccaneer® Gland Packs



Pack of cable glands to suit cables from 3.5mm to 9mm diameter.

Grey: 3.5 - 5mm Yellow: 7 - 9mm  
White: 5 - 7mm

528341

Mftrs.	Order Code	1+	25+	50+	100+	500+
List No.						
SA3253	165-4772					

### IP68 Standard Buccaneer® Backshell



- Provides environmental seal to rear of panel up to IP68
- Standard cable acceptance of 6 - 8mm, 3.5 - 9mm with alternative glands
- For use on front panel mounting Standard Buccaneer® connectors

528476

Mftrs.	Order Code	1+	25+	50+	100+	250+	500+
List No.							
PX0799	168-7576						

### 900 Series Buccaneer - IP68 32A 600V



A range of 2, 3, 4, 5, 7 and 10 pole heavy duty, rugged connectors, suitable for single and three phase applications in a variety of harsh environments such as:- sewerage and water works, construction sites, underwater equipment, external lighting, refrigeration, HVAC equipment and general industrial uses.

#### Features and Benefits

- Water and dust-proof to IP68, EN60529
- Cost-effective solution for many
- 32A, 600V ac/dc
- Single and three phase applications
- Leading earth contact for 3, 4, 5 and 7 pole versions
- 'Scoop proof' contacts
- Flex, flex in-line, chassis, flange and bulkhead body styles each with outlet or inlet styles

- Easy assembly - no special tools required
- Field serviceable - screw terminals
- Versatile configuration - interchangeable plug and socket carriers
- Sealing caps available to maintain IP68 rating
- UL, CSA and VDE approvals
- Cable and acceptance 13-15mm, additional gland pack for 7-13mm
- Bulkhead moulding available for use with flange mounting body for 45° or 90° mounting (order each separately)
- 2, 3, 4, 5, 7 and 10 pole
- Positive locating keyways - cannot be mis-connected

#### Specification

##### Electrical:

Contact rating	2, 3 way - 30(32)A 4, 5 way - 25(32)A 7 way - 25(32)A 10 way - 10A
Voltage rating	2, 3 way - 600Vac/dc 4, 5 way - 600Vac/dc 7 way - 430Vac/dc 10 way - 250Vac/dc
Contact resistance	<10mohm max.
Insulation resistance	>MΩ min.
Dielectric strength	2000V min.
Operating temp. range	-40°C to +85°C
Approvals	UL / VDE

##### Material:

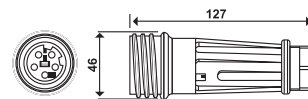
Body mouldings	PolyamideUL94V-0
Flammability rating	UL94V-0
Contacts	Machined Solid Brass, Nickel plated
O Rings	Nitrile
Chassis sealing gasket	Silicon Rubber

##### Mechanical:

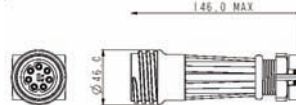
Sealing	IP68, EN60529
Cable acceptance	PX0 series 13 - 15mm O/D as standard, 7-13mm with gland pack PXA series 20 - 22mm O/D as standard, 14 - 20mm with gland pack
Wire size	2-7 pole - 2.5 to 4mm <sup>2</sup> single or multi stranded 10 pole - 0.75 to 2mm <sup>2</sup> single or multi stranded
Termination	Screw
Vibration test	To EN60068-2-6:1995
Impact resistance	To EN50021:1996
Drop test	To EN50021:1996
Cable retention force	22mm dia, 150N 15mm dia, 150N 7mm dia, 80N

209299

### 900 Series Buccaneer



2 - 5 Way Connectors



7 Way Connectors

- In-line flex cable connector
- Mates with PX0911 connectors
- 13-15mm cable diameter as standard, 20-22mm diameter with additional gland pack

Mftrs. List Nos:

2 - 5 Way Connectors	Plug = PX0921/xx/P, Socket = PX0921/xx/S,	where xx = no. of ways
7 - 10 Way Connectors	Plug = PXA921/xx/P, Socket = PXA921/xx/S,	

209296

No. of Ways	Order Code	1+	25+	50+	100+	250+	500+
<b>Plug</b>							
3	313-5883						
4	313-5895						
5	313-5901						
7	384-4614						
10	168-7570						
<b>Socket</b>							
2	313-5913						
3	313-5925						
4	313-5937						
5	313-5949						
7	384-4626						
10	168-7571						

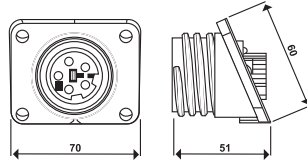


## TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at [farnell.com](http://farnell.com)



## 900 Series Buccaneer



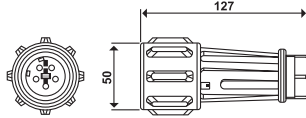
- Flange mounting connector
- Supplied with high grade sealing gasket

Mfrs. List Nos: Plug=PX0941/xx/P, Socket=PX0941/xx/S, where xx=no. of ways

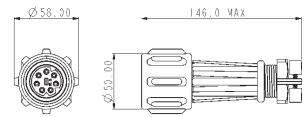
209298

No. of Ways	Order Code	Price Each					
		1+	25+	50+	100+	250+	500+
<b>Plug</b>							
3	313-6048						
4	313-6050						
5	313-6061						
7	384-4651						
<b>Socket</b>							
2	313-6073						
3	313-6085						
4	313-6097						
5	313-6103						
7	384-4663						
10	168-7575						

## 900 Series Buccaneer 32A 600V



2 - 5 Way Connectors



7 Way Connectors

- Flex cable connector
- Positive, fast acting locking ring - can be turned with a gloved hand
- Mates with panel or cable mounting connectors
- 13-15mm cable diameter as standard, 20-22mm diameter with additional gland pack

Mfrs. List Nos:  
2 - 5 Way Connectors Plug=PX0911/xx/P, Socket=PX0911/xx/S, where xx=no. of ways  
7 - 10 Way Connectors Plug=PX0911/xx/P, Socket=PX0911/xx/S, where xx=no. of ways

209301

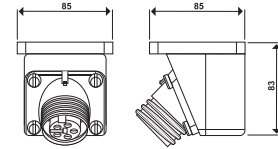
No. of Ways	Order Code	Price Each					
		1+	25+	50+	100+	250+	500+
<b>Plug</b>							
2	313-5792						
3	313-5809						
4	313-5810						
5	313-5822						
7	384-4596						
10	168-7568						
<b>Socket</b>							
2	313-5834						
3	313-5846						
4	313-5858						
5	313-5860						
7	384-4602						
10	168-7569						

### IMPROVED BACK ORDER DELIVERY

Receive email updates with the exact status, due date and despatch information of all your back order items **farnell.com**

## 900 Series Buccaneer

### Accessories



- Additional bulkhead adaptor moulding
- For use with PX0941 to give 45° or 90° angle
- Supplied with high grade sealing gasket and screws for fixing PX0941

PX0950 Bulkhead adaptor moulding with gasket and screws

PX0960 Sealing cap for use with PX091/xx/xx

PX0970 Sealing cap for use with all other styles

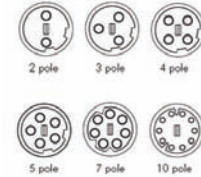
PX0980 Gland pack for 7-13mm diameter cables

PXA980 Gland pack for 14-20mm diameter cables

209300

List No.	Order Code	Price Each					
		1+	25+	50+	100+	250+	500+
PX0950	313-6115						
PX0960	313-6127						
PX0970	313-6139						
PX0980	313-6140						
PXA980	384-4675						

## EXPLora ATEX Zone 2 Connectors



Contact Arrangement

A range of plastic circular connectors designed to meet the rigours of hazardous area environments. Independently tested to comply with the requirements of IEC60079-0:2007 & IEC60079-15:2005 for equipment's installed in ATEX zone 2 and zone 22 classified areas.

- ATEX approved for Zone 2 and Zone 22 applications
- Independently tested
- Up to 18A, 600Vac/dc rating
- 2, 3, 4, 5, & 7 pole versions
- Trailing Neutral on 5 pole
- Plug or socket connection in each body style
- Water and dustproof to IP68 when mated
- 'Scoop proof' contacts
- Field termination - screw terminations
- Positive locating keyways - cannot be mis-connected
- Sealing caps available to maintain IP68 rating of unmated connectors
- Compact design
- Easy assembly - no special tools required
- Single or 3 phase applications
- Cost effective solution
- Cable acceptance from 13-15mm O/D as standard, 7-13mm with addition gland pack

**Specifications:-**  
ATEX Approval Zone 2 & Zone 22 II 3 GD  
ATEX Coding Ex nA IIC T6 Gc  
ATEX Classification Ex tc IIIC T85.°C Dc

**Electrical Ratings:**  
Current Rating 18A (2, 3, 4, 5, Pole)  
16A (7 Pole)  
10A (10 Pole)  
Voltage Rating 600V (2, 3, 4, 5, Pole)  
430V (7 Pole)  
250V (10 Pole)  
Ambient Temp. Range -20°C to +55°C  
UV Resistance To EN50021:1999

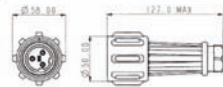
555445



### INTELLIGENT ONLINE BUYING SYSTEM PROVIDING

Complete cost control, reduced administration time, visibility of your spend, flexibility and personalised to your company's needs.  
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**EXPlora Cable Connector - ATEX Zone 2**

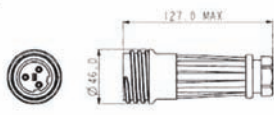


- Mates with EXP-0921, EXP-0931 & EXP-0941 connectors
- Plug or socket versions
- 13-15mm cable dia. acceptance as standard, 7-13mm with additional gland pack

555492

No. of Ways	Mftrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Cable Plugs</b>						
2	EXP-0911/02/P	176-4827				
3	EXP-0911/03/P	176-4828				
4	EXP-0911/04/P	176-4829				
5	EXP-0911/05/P	176-4830				
7	EXP-0911/07/P	176-4831				
10	EXP-0911/10/P	176-4832				
<b>Cable Sockets</b>						
2	EXP-0911/02/S	176-4853				
3	EXP-0911/03/S	176-4854				
4	EXP-0911/04/S	176-4855				
5	EXP-0911/05/S	176-4856				
7	EXP-0911/07/S	176-4857				

**EXPlora In-line Connector - ATEX Zone 2**



- Mates with EXP-0911 connector
- 13-15mm cable dia. acceptance as standard, 7-13mm with additional gland pack
- Plug or socket versions

555493

No. of Ways	Mftrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>In-Line Plugs</b>						
3	EXP-0921/03/P	176-4862				
4	EXP-0921/04/P	176-4863				
7	EXP-0921/07/P	176-4865				
<b>In-Line Sockets</b>						
3	EXP-0921/03/S	176-4835				
4	EXP-0921/04/S	176-4836				
5	EXP-0921/05/S	176-4837				
7	EXP-0921/07/S	176-4838				
10	EXP-0921/10/S	176-4839				

**EXPlora Accessories - ATEX Zone 2**



- Heavy duty sealing caps to maintain IP68 rating of unmated connectors, with stainless steel straps
- Gland Pack - 3 additional glands for EXP-0911 & EXP-0921 to suit cable sizes 11-13mm, 9-11 and 7-9mm dia.

555496

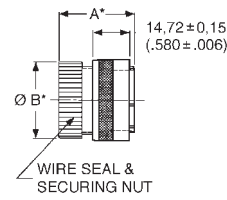
Description	Mftrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Sealing Caps</b>						
For EXP-0911	EXP-0990	176-4880				
For EXP-0921	EXP-0991	176-4881				
For EXP-0931&EXP-0941	EXP-0992	176-4882				
<b>Gland Pack</b>						
	EXP-0980	176-4884				

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**Standard Plugs (Pin Contacts) with Wire Seal**



- Mates with standard receptacles
- Accepts pin contacts
- Contacts to be ordered separately
- Sealed to IP67 when mated

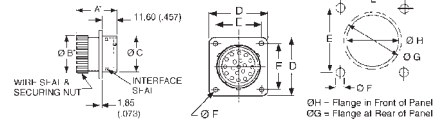
Mftrs. List No.	No. of Ways	Shell Size	Dimensions		
			A	∅B	∅C
TNM6S10-0004P1L	4	10	42.5	17.5	21.6
TNM6S12-0008P1L	8	12	42.5	20.6	24.8
TNM6S14-0304P1L	3+4	14	42.5	24.3	28.0
TNM6S14-0012P1L	12	14	42.5	24.3	28.0
TNM6S16-0019P1L	19	16	42.5	27.0	31.2

No. of Ways	Shell Size	Order Code	Price Each			
			1+	25+	50+	100+ 250+
<b>Standard Plugs - Accept Pin Contacts</b>						
4	10	118-6731				
8	12	118-6732				
3+4	14	118-6733				
12	14	118-6734				
19	16	118-6736				

**Standard Receptacles (Socket Contacts) with Wire Seal**



- Mates with standard plugs
- Accepts socket contacts
- Contacts to be ordered separately
- Sealed to IP67 when mated



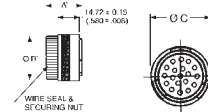
Mftrs. List No.	No. of Ways	Shell Size	Dimensions							
			A	∅B	∅C	D	E	∅F	∅G	∅H
TNMOS12-0008S1L	8	12	34.7	20.6	18.98	26.15	20.62	3.2	21.8	18.2
TNMOS14-0012S1L	12	14	34.7	24.3	22.16	28.54	22.8	3.5	25.0	21.4
TNMOS16-0019S1L	19	16	34.7	27.0	25.33	30.89	24.61	3.5	28.1	24.6

No. of Ways	Shell Size	Order Code	Price Each				
			1+	25+	50+	100+ 250+	
<b>Standard Receptacles - Accept Socket Contacts</b>							
8	12	118-6738					
12	14	118-6740					
19	16	118-6741					

**Reversed Plugs (Socket Contacts) with Wire Seal**



- Mates with reversed receptacles
- Accepts socket contacts
- Contacts to be ordered separately
- Sealed to IP67 when mated



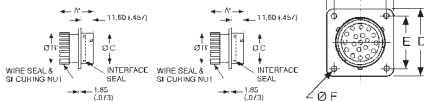
Mftrs. List No.	No. of Ways	Shell Size	Dimensions		
			A	∅B	∅C
TNM6S10-0004S1L	4	10	34.2	17.5	21.6
TNM6S12-0008S1L	8	12	34.2	20.6	24.8
TNM6S14-0304-S1L	3+4	14	34.2	24.3	28.0
TNM6S14-0012S1L	12	14	34.2	24.3	28.0
TNM6S16-0019S1L	19	16	42.5	27.0	31.2

No. of Ways	Shell Size	Order Code	Price Each				
			1+	25+	50+	100+ 250+	
<b>Reversed Plugs - Accept Socket Contacts</b>							
4	10	118-6742					
8	12	118-6743					
3+4	14	169-6616					
12	14	118-6744					
19	16	118-6745					

## Reversed Receptacles (Pin Contacts) with Wire Seal



- Mates with reversed plugs
- Accepts pin contacts
- Contacts to be ordered separately
- Sealed to IP67 when mated



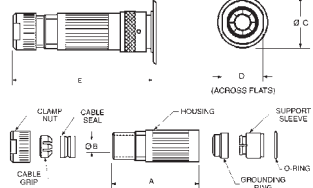
Mftrs. List No.	No. of Ways	Shell Size	A	∅B	∅C	D	E	∅F	∅G
TNMOS10-0004P1L	4	10	43.0	17.5	14.92	23.79	18.26	3.2	17.3
TNMOS12-0008P1L	8	12	43.0	20.6	18.98	26.15	20.62	3.2	21.8
TNMOS14-0304P1L	7	14	43.0	24.3	22.16	28.54	22.8	3.5	25.0
TNMOS14-0012P1L	12	14	43.0	24.3	22.16	28.54	22.8	3.5	25.0
TNMOS16-0019P1L	19	16	34.7	27.0	25.33	30.89	24.61	3.5	28.1

Note: Standard and Reversed connectors are not interchangeable

230944

No. of Ways	Shell Size	Order Code	1+	25+	50+	100+	250+
4	10	118-6746					
8	12	118-6748					
12	14	118-6749					
19	16	118-6750					

## Universal Shielded Endbell



- Use with shielded jacketed cables to meet EMC requirements
- Ensures full 360° EMC shielding

- IP67 rated
- Suitable for standard and reversed plugs

Housing	Aluminium / Nickel
Grounding ring	Aluminium / Nickel
Clamp nut	Aluminium / Nickel
Cable grip	Nylon UL94V-0
Support sleeve	Nylon UL94V-0
O-ring	Rubber
Cable seal	Rubber

Mftrs. List No.	TNA10CCSE00L=118-6763
	TNA12CCSE00L=118-6764
	TNA14CCSE00L=118-6765
	TNA16CCSE00L=118-6766

Shell Size	Cable Dia. Range	Dimensions				Reversed Format
		A	∅B	∅C	D	
10	4.4 - 7.3	18.1	5	10	19	70.0
12	6.4 - 9.5	21.2	6	12	21	72.0
14	6.9 - 10.2	24.2	7	14	23	78.0
16	7.9 - 12.6	27.6	8	16	25	82.5

230989

Shell Size	Order Code	1+	25+	50+	100+	250+
10	118-6763					
12	118-6764					
14	118-6765					
16	118-6766					

## Shielded Endbell



- For use with jacketed cables
- Suitable for standard and reversed plugs
- Metal body with plastic cable clamp



Shell Size	Cable Dia. Range	Dimensions				D max.
		∅A max.	∅B min.	∅B max.	∅C	
10	5 - 10	18.1	5	10	19	70.0
12	6 - 12	21.2	6	12	21	72.0
14	7 - 14	24.2	7	14	23	78.0
16	8 - 16	27.6	8	16	25	82.5

Mftrs. List No.	TNA10CC-SE01L=118-6753	TNA14CC-SE01L=118-6755
	TNA12CC-SE01L=118-6754	TNA16CC-SE01L=118-6756

230980

Shell Size	Order Code	1+	25+	50+	100+	250+
10	118-6753					
12	118-6754					
14	118-6755					
16	118-6756					

## Trident 'Ring Lock' Series



Circular plastic connectors with 5-bayonet metal locking ring mechanism. Rated at up to 13A and 250V ac they provide quick and reliable connections for industrial applications.

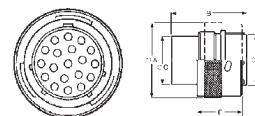


- Available in nine shell sizes and insert arrangements
- Shell to shell keying
- Unsealed and sealed options
- Integral moulded body and insulator
- Accept all Trident contacts
- UL and CSA recognised
- 7 way meets VDE 0110 requirements

Operating voltage	250VAC	Temperature range	-55°C to 105°C
Maximum current	13A	Locking ring	Copper Alloy

230681

## Standard Plugs (Pin Contacts)



- Mate with standard receptacles
- Accept pin contacts
- Contacts to be ordered separately
- IP65 protection using sealed cable clamp with round jacketed cable and mated with a sealed receptacle

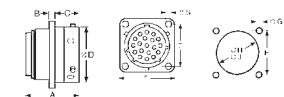
No. of Ways	Shell Size	Dimensions				Accessory Thread
		A	B	C	D	
4	10	21.6	31.8	10.9	12.2	19.1±0.2
7	18	34.3	33	22.5	24	19.1±0.2
8	12	24.8	31.8	13.8	15.1	19.1±0.2
12	14	28	31.8	17	18.3	19.1±0.2
19	16	31.2	31.8	19.9	21.4	19.1±0.2
23	18	34.3	31.8	22.4	24	19.1±0.2
48	24	43.9	31.8	31.7	33.5	14.72±0.15

Mftrs. List No.	TR1004PMS1NB=118-6705	TR1619PMS1NB=118-6709
	TR1807PMS1NBE=118-6706	TR1823PMS1NB=118-6710
	TR1208PMS1NB=118-6707	TR2448PMS1NB=118-6712
	TR1412PMS1NB=118-6708	

230685

No. of Ways	Shell Size	Order Code	1+	25+	50+	100+	250+
4	10	118-6705					
7	18	118-6706					
8	12	118-6707					
12	14	118-6708					
19	16	118-6709					
23	18	118-6710					
28	20	118-6783					
35	22	118-6785					
48	24	118-6712					

## Standard Receptacles (Socket Contacts)



- Mates with standard plugs
- Accept socket contacts
- Contacts to be ordered separately
- Available in unsealed or sealed options
- Sealed to IP65 when mated with standard plug using sealed cable clamp and round jacketed cable

No. of Ways	Shell Size	Dimensions									Accessory Thread
		A	B	C	D	E	F	∅G	∅H	∅J	
4	10	25.8	2.3	11.15	15	18	23.5	3.25	17.3	15.1	9/16-24UNEF
7	18	32.5	2.3	18.2	28.5	27	33.3	3.25	31.3	27.8	1 1/16-18UNEF
8	12	25.8	2.3	11.35	19	20.5	26.2	3.25	21.8	18.2	11/16-24UNEF
12	14	25.8	2.3	11.35	22.2	22.6	28.15	3.25	25	21.4	13/16-20UNEF
19	16	25.8	2.3	11.35	25.4	24.2	30.5	3.25	28.1	24.6	15/16-20UNEF
23	18	25.8	2.5	11.35	28.5	26.9	33.3	3.25	31.3	27.8	1 1/16-18UNEF
28	20	33.3	2.5	14.5	31.7	29.2	36.5	3.25	34.5	30.9	1 3/16-18UNEF
35	22	33.3	3.5	14.5	34.9	31.6	39.7	3.25	37.7	34.1	1 5/16-18UNEF
48	24	33.3	3.5	15.3	38.05	34.45	42.9	3.9	40.9	37.3	1 7/16-18UNEF

Mftrs. List No.	TR1004RFS1NB=118-8245	TR2028RFS1NB=118-8251
	TR1208RFS1NB=118-8247	TR2235RFS1NB=118-8253
	TR1412RFS1NB=118-8248	TR2448RFS1NB=118-8254
	TR1619RFS1NB=118-8249	TR1004RFH1NB=118-8234
	TR1823RFS1NB=118-8250	TR1807RFH1NB=118-8235

# Circular Multipole - continued

## Standard Receptacles (Socket Contacts) - continued

TR1208RFH1NB=118-8236	TR2028RFH1NB=118-8242
TR1412RFH1NB=118-8237	TR2235RFH1NB=118-8243
TR1619RFH1NB=118-8238	TR2448RFH1NB=118-8244
TR1823RFH1NB=118-8241	

230691

No. of Ways	Shell Size	Order Code	1+	25+	50+	100+	250+
-------------	------------	------------	----	-----	-----	------	------

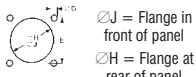
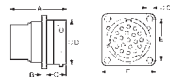
### Unsealed - Accept Socket Contacts

4	10	118-8245					
8	12	118-8247					
12	14	118-8248					
19	16	118-8249					
23	18	118-8250					
28	20	118-8251					
35	22	118-8253					
48	24	118-8254					

### Sealed - Accept Socket Contacts

4	10	118-8234					
7	18	118-8235					
8	12	118-8236					
12	14	118-8237					
19	16	118-8238					
23	18	118-8241					
28	20	118-8242					
35	22	118-8243					
48	24	118-8244					

## Reversed Receptacles (Pin Contacts)



Engineered for life

∅J = Flange in front of panel  
∅H = Flange at rear of panel

- Mates with reversed plugs
- Accept pin contacts
- Contacts to be ordered separately
- Available in unsealed or sealed options
- Sealed to **IP65** when mated with reversed plug using sealed cable clamp and round jacketed cable

No. of Ways	Shell Size	A		B		C		D		E		F		G		H		J		K	
		max.	±0.15	±0.2	±0.15	±0.2	±0.15	±0.2	±0.15	±0.2	±0.15	±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1
4	10	31.5	2.3	11.35	15	18	23.5	3.25	17.3	15.1											
12	14	31.5	2.3	11.35	22.2	22.6	28.15	3.25	25	21.4											
19	16	31.5	2.3	11.35	25.4	24.2	30.5	3.25	28.1	24.6											
23	18	31.5	2.5	11.35	28.5	26.9	33.3	3.25	31.3	27.8											
28	20	33	2.5	14.55	31.7	29.2	36.5	3.25	34.5	30.9											
35	22	33	3.5	14.55	34.9	31.6	39.7	3.25	37.7	34.1											
48	24	34.8	3.5	15.3	38.05	34.45	42.9	3.9	40.9	37.3											

Mfrs. List No.	TR1004RMS1NB=118-8263	TR2235RMS1NB=118-8271
	TR1208RMS1NB=118-8266	TR2448RMS1NB=118-8272
	TR1412RMS1NB=118-8267	TR1004RMH1NB=118-8255
	TR1619RMS1NB=118-8268	TR1619RMH1NB=118-8258
	TR1823RMS1NB=118-8269	TR1823RMH1NB=118-8259
	TR2028RMS1NB=118-8270	TR2028RMH1NB=118-8260

Note: Standard and Reversed connectors are not interchangeable

230696

No. of Ways	Shell Size	Order Code	1+	25+	50+	100+	250+
-------------	------------	------------	----	-----	-----	------	------

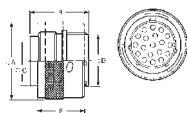
### Unsealed - Accept Pin Contacts

4	10	118-8263					
8	12	118-8266					
12	14	118-8267					
19	16	118-8268					
23	18	118-8269					
28	20	118-8270					
35	22	118-8271					
48	24	118-8272					

### Sealed - Accept Pin Contacts

4	10	118-8255					
8	12	118-8256					
12	14	118-8257					
19	16	118-8258					
23	18	118-8259					
28	20	118-8260					

## Reversed Plugs (Socket Contacts)



- Mates with reversed receptacles
- Accept socket contacts
- Contacts to be ordered separately
- **IP65** protection using sealed cable clamp with round jacketed cable and mated with a sealed reversed receptacle

### Dimensions

No. of Ways	Shell Size	A ±0.2	B max.	C ±0.15	D ±0.15	E	Accessory Thread
4	10	21.6	26.1	11	12.2	19.1±0.2	9/16-24UNEF
8	12	24.8	25.6	13.9	15.1	19.1±0.2	11/16-24UNEF
12	14	28	26.8	17.1	18.3	19.1±0.2	13/16-20UNEF
19	16	31.2	27.6	20	21.4	19.1±0.2	15/16-18UNEF
23	18	34.3	25.6	22.5	24	19.1±0.2	1 1/16-18UNEF
28	20	37.5	31.3	25.7	27.1	19.1±0.2	1 3/16-20UNEF
35	22	40.7	31.3	28.6	30.4	19.1±0.2	1 5/16-18UNEF
48	24	43.9	31.3	31.8	33.5	14.72±0.15	1 7/16-18UNEF

Mfrs. List No.	TR1004PFS1NB=118-6713	TR1823PFS1NB=118-6718
	TR1208PFS1NB=118-6715	TR2028PFS1NB=118-6719
	TR1412PFS1NB=118-6716	TR2448PFS1NB=118-6721
	TR1619PFS1NB=118-6717	TR2235PFS1NB=118-6720

Note: Standard and Reversed connectors are not interchangeable

230692

No. of Ways	Shell Size	Order Code	1+	25+	50+	100+	250+
-------------	------------	------------	----	-----	-----	------	------

4	10	118-6713					
8	12	118-6715					
12	14	118-6716					
19	16	118-6717					
23	18	118-6718					
28	20	118-6719					
35	22	118-6720					
48	24	118-6721					

## High Voltage Trident Connectors



The Trident Nickel plated Zinc alloy housing connectors have an orange Nylon insulator body designed for high voltage applications. This connector series is VDE Certified.



Engineered for life

**NEW**

- Rated up to 34A for wire size 4.0mm<sup>2</sup> at 20°C
- Operating Voltage: Up to 500V DC and AC
- Contact Current Rating 34A Max, Wire size 4mm<sup>2</sup>
- Contact Resistance: 5mΩ Max
- Operating Temperature: -40 to +125°C
- Protection: IP67
- Resists Salt spray for 48 Hours
- Flammability Rating UL 94 V-0

663454

Mfrs. List No.	Order Code	1+	5+	10+	25+	50+
----------------	------------	----	----	-----	-----	-----

Gender	Standard 4 Way					
Plug	THV6U14-0400P1L-02	214-3640				
Socket	THV0U14-0400S1L-02	214-3642				
Gender	Reversed, 4 Way					
Plug	THV6U14-0400S1L-02	214-3643				
Socket	THV0U14-0400P1L-02	214-3644				
Size (mm <sup>2</sup> )						

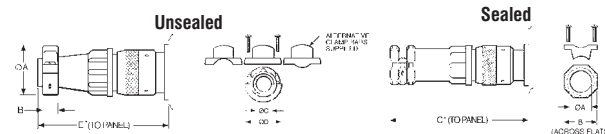
## Cable Clamps



- Provide strain relief and wire protection
- Suitable for standard and reversed plugs
- Sealed clamps provide **IP65** protection for plugs using round jacketed cable when mated with receptacles



Engineered for life



### Unsealed

Mfrs. List No.	Shell Size	∅A max.	B ±0.15	∅C max.	D ±0.15	E* max.
TR10ASR1N	10	15.5	17	15.5	15.5	15.5
TR12ASR1N	12	19	17	19	19	19
TR14ASR1N	14	24	17	24	24	24
TR16ASR1N	16	19	22	19	19	19
TR20ASR1N	20	49.5	32	49.5	49.5	49.5
TR22ASR1N	22	19	32	19	19	19
TR18ASR1N	18	24	42	24	24	24
TR24ASR1N	24					49.5

\*For disassembly add 9.0 for shell sizes 10-16 and 10.6 for shell sizes 18-24

### Sealed

Mfrs. List No.	Shell Size	ØA** max.	Dimensions B ±0.2	C* max.
TR10AHC1N	10	11.1	18.8	76.5
TR12AHC1N	12	13.6	20.8	77.8
TR14AHC1N	14	14.6	22.8	85.5
TR16AHC1N	16	16.6	24.7	89.8
TR18AHC1N	18	16.6	24.7	93
TR20AHC1N	20	22.1	31.8	107.5
TR22AHC1N	22	22.1	31.8	114.5
TR24AHC1N	24	29.6	41.8	49.5

\*For disassembly add 9.0 for shell sizes 10-16 and 10.6 for shell sizes 18-24  
 \*\*Assumes a uniformly round jacketed cable. Diameter variations could affect sealing

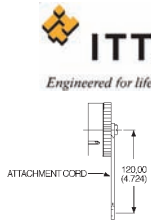
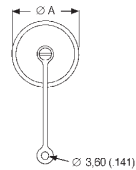
230705

Shell Size	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
<b>Unsealed</b>							
10	TR10ASR1N	118-8282					
12	TR12ASR1N	118-8283					
14	TR14ASR1N	118-8284					
16	TR16ASR1N	118-8285					
20	TR20ASR1N	118-8286					
22	TR22ASR1N	118-8287					
18	TR18ASR1N	118-8289					
24	TR24ASR1N	118-8291					
<b>Sealed</b>							
10	TR10AHC1N	118-6722					
12	TR12AHC1N	118-6724					
14	TR14AHC1N	118-6725					
16	TR16AHC1N	118-6726					
18	TR18AHC1N	118-6727					
20	TR20AHC1N	118-6728					
22	TR22AHC1N	118-6729					
24	TR24AHC1N	118-6730					

### Dust Caps



- Plastic dust caps to protect unmated receptacles
- Durable construction for long-term
- Suitable for standard and reversed options



230700

Shell Size	Dimension ØA max.	Shell Size	Dimension ØA max.	Shell Size	Dimension ØA max.
14	28.6	16	31.7		

Shell Size	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+
14	TR14ADCR	118-8275					
16	TR16ADCR	118-8277					

### Trident Connector Crimp Contacts

#### Solid Machined



Socket contact Pin contact

- Gold plated one-piece machined construction
- 13A standard brass material
- High performance and durability
- Fit all Trident connectors

Current rating 13A  
 Contact resistance 5mΩ  
 Body material Brass  
 Mating cycles 500

231029

Wire Size	Colour	Order Code	10+	50+	100+	500+	1K+
<b>Pins</b>							
26AWG	Black	118-6768					
24AWG	Blue	118-6769					
22AWG	Red	118-6770					
20AWG	Green	118-6771					
AWG16	Black	118-6773					
<b>Sockets</b>							
26AWG	Black	118-6774					
24AWG	Blue	118-6775					
22AWG	Red	118-6776					
20AWG	Green	118-6777					
16AWG	Black	118-6778					

### Trident Connector Solder Cup Contacts

- Tin or gold flash plating options
- 13A standard brass material
- Ideal for low volume and prototype applications
- Fit all Trident connectors

Current rating	13A	Body material	Brass
Contact resistance	5mohm	Mating cycles	500
Mfrs. List Nos:	192900-0632=118-6780 192900-0634=118-6779	192900-0635=118-6781 192900-0633=118-6782	

231031

Order Multiple=10	Price Each
Order Code	10+ 50+ 100+ 500+ 1K+
<b>Tin Plated Pins</b>	
192900-0632	118-6780
<b>Tin Plated Sockets</b>	
192900-0634	118-6779
<b>Gold Plated Pins</b>	
192900-0633	118-6782
<b>Gold Plated Sockets</b>	
192900-0635	118-6781

### Trident TNM Connector Power Contacts



- 30A crimp power contacts for TNM combined signal and power connectors
- Tin plated copper alloy material

Socket contact	Pin contact	Current rating	13A	Body material	Copper Alloy
Contact resistance	2.5mΩ	Mating cycles	200		
Mfrs. List Nos:	192990-9610 192990-9640	118-8308 118-8309	192990-9620 192990-9650	118-8310 118-8311	

231033

Order Multiple=10	Price Each	
Wire Size	Order Code	10+ 50+ 100+ 500+ 1K+
<b>Pins</b>		
14 - 12AWG	118-8310	
<b>Sockets</b>		
16 - 14AWG	118-8309	
14 - 12AWG	118-8311	

### Trident Connector Tooling

- Ratchet crimp tools for stamped and formed signal and power contacts
- Hand crimp tool for machined contacts
- Machined contact tool requires calibrated locator, supplied separately

Mfrs. List Nos:	121586-5238 121586-5237 121586-5236	174-0791 174-0792 174-0793	112108-0012 192990-7600	380-6923 380-6947	192922-1450 192900-0176	380-6959 380-6960
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231035

Contact Type	Wire Size	Order Code	Price Each
<b>1+</b>			
Power	14-16 AWG	174-0791	
Signal	16-18 AWG	174-0792	
Signal	20-26 AWG	174-0793	
Signal	14-20 AWG	380-6923	
Crimp Tool		890-376	
Locator (calibrated)		380-6947	
<b>Extractor Tool</b>			
Signal		380-6959	
Power		380-6960	

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## ITT Cannon Connectors

### JC Series



NEW

The JC Series connectors are rugged, light-weight, low cost general purpose circular connectors. A threaded coupling design permits full engagement of the contacts even when the coupling nut is disengaged, this feature is useful for bench testing applications.

656173

Mfrs List No.	Insert Arrangement	Number of Contacts	Order Code	Price Each			
				1+	10+	25+	50+
<b>Plug, Cable, Pin Contacts</b>							
JC6A13-3P	13-3	3	208-3487				
JC6A13-5P	13-5	5	208-3489				
JC6A16-7P	16-7	7	208-3491				
JC6A16-10P	16-10	10	208-3493				
JC6A21-10P	21-10	10	208-3495				
JC6A21-16P	21-16	16	208-3497				
JC6A25-16P	25-16	16	208-3500				
JC6A25-24P	25-24	24	208-3502				

Mfrs List No.	Insert Arrangement	Number of Contacts	Order Code	Price Each			
				1+	10+	25+	50+
<b>Plug, Cable, Socket Contacts</b>							
JC6A13-3S	13-3	3	208-3488				
JC6A13-5S	13-5	5	208-3490				
JC6A16-7S	16-7	7	208-3492				
JC6A16-10S	16-10	10	208-3494				
JC6A21-10S	21-10	10	208-3496				
JC6A21-16S	21-16	16	208-3499				
JC6A25-16S	25-16	16	208-3501				
JC6A25-24S	25-24	24	208-3503				

Mfrs List No.	Insert Arrangement	Number of Contacts	Order Code	Price Each			
				1+	10+	25+	50+
<b>Receptacle, Cable, Pin Contacts</b>							
JC1A13-3P	13-3	3	208-3505				
JC1A13-5P	13-5	5	208-3507				
JC1A16-7P	16-7	7	208-3509				
JC1A16-10P	16-10	10	208-3511				
JC1A21-10P	21-10	10	208-3513				
JC1A21-16P	21-16	16	208-3515				
JC1A25-16P	25-16	16	208-3518				
JC1A25-24P	25-24	24	208-3520				

Mfrs List No.	Insert Arrangement	Number of Contacts	Order Code	Price Each			
				1+	10+	25+	50+
<b>Receptacle, Cable, Socket Contacts</b>							
JC1A13-3S	13-3	3	208-3506				
JC1A13-5S	13-5	5	208-3508				
JC1A16-7S	16-7	7	208-3510				
JC1A16-10S	16-10	10	208-3512				
JC1A21-10S	21-10	10	208-3514				
JC1A21-16S	21-16	16	208-3517				
JC1A25-16S	25-16	16	208-3519				
JC1A25-24S	25-24	24	208-3521				

Mfrs List No.	Insert Arrangement	Number of Contacts	Order Code	Price Each			
				1+	10+	25+	50+
<b>Receptacle, Panel Mount, Pin Contacts</b>							
JC2A13-3P	13-3	3	208-3522				
JC2A13-5P	13-5	5	208-3524				
JC2A16-7P	16-7	7	208-3526				
JC2A16-10P	16-10	10	208-3529				
JC2A21-10P	21-10	10	208-3532				
JC2A21-16P	21-16	16	208-3534				
JC2A25-16P	25-16	16	208-3536				
JC2A25-24P	25-24	24	208-3538				

Mfrs List No.	Insert Arrangement	Number of Contacts	Order Code	Price Each			
				1+	10+	25+	50+
<b>Receptacle, Panel Mount, Socket Contacts</b>							
JC2A13-3S	13-3	3	208-3523				
JC2A13-5S	13-5	5	208-3525				
JC2A16-7S	16-7	7	208-3527				
JC2A16-10S	16-10	10	208-3531				
JC2A21-10S	21-10	10	208-3533				
JC2A21-16S	21-16	16	208-3535				
JC2A25-16S	25-16	16	208-3537				
JC2A25-24S	25-24	24	208-3539				

## Veam VSC 19 Pin Connectors



164-9938

164-9939

164-9936

164-9937

ITT's Veam VSC is a threaded coupling multi-pin cylindrical connector series for lighting applications.

Product Features:-

- Sealed to IP67 when mated
- Socapex compatible
- Machined aluminum shells
- Black, hard anodized (non-conductive) finish for scratch and wear resistant surface
- Heavy duty ribbed coupling ring to provide easy manual coupling and uncoupling
- Six circuit identification on front and rear of inserts
- Recessed area in back of Female insert to accept grounding disk
- Seven forward contacts for 'First make, last break' grounding
- Insulating sleeve

Contact Plating	Contact Material	Current Rating	Voltage Rating	No. of Ways	Operating Temperature
Gold	Copper Alloy	41A max., 25A rated	700 VDC, 500 VAC	19	-55 to 125°C

525624

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
Free Plug	VSC06P-S-M40S	164-9936				
Free Socket	VSC01S-S-M40S	164-9937				
Panel Mount Plug	VSC26P-S	164-9938				
Panel Mount Socket	VSC02S-S	164-9939				

## SRCN Series

### Miniature Circulars



Plug

Receptacle

- Miniature, Lightweight and solid construction
- General purpose applications
- Approval UL File no. E-67741
- Highly reliable contact finish
- 500 mating cycles

NEW

### Specifications:

Contact Plating	Body Material	Voltage Rating	Contact Material	Mating Cycles	Operating Temperature
Silver	Aluminium	250 VAC / 350 VDC	Copper	500	-25°C to +85°C

637882

No. of Contacts	Shell Size	Mfrs. List No.	Order Code	Price Each				
				1+	10+	25+	50+	100+
<b>Receptacle, Panel Mount, Pin Contacts</b>								
3	13	SRCN2A13-3P	189-3984					
5	13	SRCN2A13-5P	189-3986					
7	16	SRCN2A16-7P	189-3988					
10	16	SRCN2A16-10P	189-3990					
10	21	SRCN2A21-10P	189-3992					
16	21	SRCN2A21-16P	189-3995					
16	25	SRCN2A25-16P	189-3997					
24	25	SRCN2A25-24P	189-3999					
<b>Receptacle, Panel Mount, Socket Contacts</b>								
3	13	SRCN2A13-3S	189-3985					
5	13	SRCN2A13-5S	189-3987					
7	16	SRCN2A16-7S	189-3989					
10	16	SRCN2A16-10S	189-3991					
10	21	SRCN2A21-10S	189-3994					
16	21	SRCN2A21-16S	189-3996					
16	25	SRCN2A25-16S	189-3998					
24	25	SRCN2A25-24S	189-4000					
<b>Plug, Cable Mount, with Coupling Nut, Pin Contacts</b>								
3	13	SRCN6A13-3P	189-4001					
5	13	SRCN6A13-5P	189-4003					
7	16	SRCN6A16-7P	189-4005					
10	16	SRCN6A16-10P	189-4008					
10	21	SRCN6A21-10P	189-4010					
16	21	SRCN6A21-16P	189-4012					
16	25	SRCN6A25-16P	189-4014					
24	25	SRCN6A25-24P	189-4016					
<b>Plug, Cable Mount, with Coupling Nut, Socket Contacts</b>								
3	13	SRCN6A13-3S	189-4002					
5	13	SRCN6A13-5S	189-4004					
7	16	SRCN6A16-7S	189-4007					
10	16	SRCN6A16-10S	189-4009					
10	21	SRCN6A21-10S	189-4011					

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No. of Contacts	Shell Size	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
<b>Plug, Cable Mount, with Coupling Nut, Socket Contacts</b>								
16	21	SRCN6A21-16S	189-4013					
16	25	SRCN6A25-16S	189-4015					
24	25	SRCN6A25-24S	189-4017					
<b>Plug, Cable Mount, Pin Contacts</b>								
3	13	SRCN1A13-3P	189-4019					
5	13	SRCN1A13-5P	189-4022					
7	16	SRCN1A16-7P	189-4024					
10	16	SRCN1A16-10P	189-4026					
10	21	SRCN1A21-10P	189-4028					
16	21	SRCN1A21-16P	189-4030					
16	25	SRCN1A25-16P	189-4033					
24	25	SRCN1A25-24P	189-4035					
<b>Plug, Cable Mount, Socket Contacts</b>								
3	13	SRCN1A13-3S	189-4021					
5	13	SRCN1A13-5S	189-4023					
7	16	SRCN1A16-7S	189-4025					
10	16	SRCN1A16-10S	189-4027					
10	21	SRCN1A21-10S	189-4029					
16	21	SRCN1A21-16S	189-4032					
16	25	SRCN1A25-16S	189-4034					
24	25	SRCN1A25-24S	189-4036					

### JN1/JN2 Series - IP67



Receptacle

Plug

Waterproof (IP67) connectors with one lock mechanism developed as an interface for industrial devices. It is available in a lightweight plastic shell (JN1) or with a partially reinforced metal-plastic shell (JN2). JN1 & JN2 are compatible with each other.



**NEW**

#### Specifications:-

- Voltage Rating - 200 VAC
- Current Rating - 4 Way = 5A per contact / 10 Way = 3A per contact
- 500 mating cycles
- Operating Temp. - JN1 = -20°C to +125°C / JN2 = -20°C to +100°C

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
<b>JN1 Receptacle, Panel Mount, Solder Pin Contacts</b>							
4	JN1AS04MK1	189-4037					
10	JN1AS10ML2-R	189-4038					
<b>JN1 Receptacle, Panel Mount, Through Hole Pin Contacts</b>							
10	JN1AS10UL1	189-4039					
<b>JN2 Receptacle, Panel Mount, Solder Pin Contacts</b>							
4	JN2AS04MK2-R	189-4040					
10	JN2AS10ML2-R	189-4041					
<b>JN2 Receptacle, Panel Mount, Through Hole Pin Contacts</b>							
10	JN2AS10UL1-R	189-4042					
<b>JN1 Receptacle, Cable Mount, Solder Pin Contacts, Cable Dia. 5.7-7.3mm</b>							
4	JN1HS04MK1-R	189-4044					
<b>JN1 Receptacle, Cable Mount, Solder Pin Contacts, Cable Dia. 6.5-8mm</b>							
4	JN1HS04MK2-R	189-4045					
<b>JN1 Receptacle, Cable Mount, Crimp Pin Contacts, Cable Dia. 5.7-7.3mm</b>							
10	JN1HS10PL1	189-4046					
<b>JN1 Receptacle, Cable Mount, Crimp Pin Contacts, Cable Dia. 6.5-8mm</b>							
10	JN1HS10PL2	189-4047					
<b>JN1 Plug, Straight, Solder Socket Contacts, Cable Dia. 5.7-7.3mm</b>							
4	JN1DS04FK1	189-4048					
<b>JN1 Plug, Straight, Solder Socket Contacts, Cable Dia. 6.5-8mm</b>							
4	JN1DS04FK2	189-4049					
<b>JN1 Plug, Straight, Crimp Socket Contacts, Cable Dia. 5.7-7.3mm</b>							
10	JN1DS10SL1	189-4050					
<b>JN1 Plug, Straight, Crimp Socket Contacts, Cable Dia. 6.5-8mm</b>							
10	JN1DS10SL2	189-4051					
<b>JN2 Plug, Straight, Solder Socket Contacts, Cable Dia. 5.7-7.3mm</b>							
4	JN2DS04FK1-R	189-4056					
<b>JN2 Plug, Straight, Crimp Socket Contacts, Cable Dia. 5.7-7.3mm</b>							
10	JN2DS10SL1-R	189-4057					
<b>JN2 Plug, Straight, Crimp Socket Contacts, Cable Dia. 6.5-8mm</b>							
10	JN2DS10SL2-R	189-4058					
<b>JN1 Plug, R/A, Solder Socket Contacts, Cable Dia. 5.7-7.3mm</b>							
4	JN1FS04FK1	189-4052					
<b>JN1 Plug, R/A, Solder Socket Contacts, Cable Dia. 6.5-8mm</b>							
4	JN1FS04FK2	189-4053					
<b>JN1 Plug, R/A, Crimp Socket Contacts, Cable Dia. 6.5-8mm</b>							
10	JN1FS10SL2	189-4054					

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
<b>JN2 Plug, R/A, Solder Socket Contacts, Cable Dia. 6.5-8mm</b>							
4	JN2FS04FK2-R	189-4059					
<b>JN2 Plug, R/A, Crimp Socket Contacts, Cable Dia. 5.7-7.3mm</b>							
10	JN2FS10SL1-R	189-4060					
<b>JN2 Plug, R/A, Crimp Socket Contacts, Cable Dia. 6.5-8mm</b>							
10	JN2FS10SL2-R	189-4061					

### Clipper - High Seal Connectors



- IP67 for sealed plug with O-Ring and mated seal
- IP68 for enhanced sealed plug with O-Ring and special mating seal
- Seal Resistant to Oil, Petrol & Lubricants
- Salt Spray Resistance - 48hr minimum
- Thermoplastic material - UL94V-0
- 250 mating cycles
- Operating Temperature = -40°C to +125°C
- UL & CSA approved

Mfrs. List No.	Order Code	Mfrs. List No.	Order Code	Mfrs. List No.	Order Code
CL1M1101	190-2656	CL1C1201	190-2669	CL1F4101	190-2681
CL1M1201	190-2657	CL1C2101	190-2670	CL1F4103	190-2682
CL1M2101	190-2658	CL1C2201	190-2671	CL1F1201	190-2683
CL1C3101	190-2673	CL1C3101	190-2673	CL1F1203	190-2685
CL1C3201	190-2674	CL1C3201	190-2674	CL1F2201	190-2686
CL1F1101	190-2675	CL1F1101	190-2675	CL1F2203	190-2687
CL1F1103	190-2676	CL1F1103	190-2676	CL1F3201	190-2688
CL1F2101	190-2677	CL1F2101	190-2677	CL1F3203	190-2689
CL1F2103	190-2678	CL1F2103	190-2678	CL1P1101	190-2690
CL1F3101	190-2679	CL1F3101	190-2679	CL1P2101	190-2691
CL1F3103	190-2680	CL1F3103	190-2680	CL1P3101	190-2692

No. of Ways	Shell Size	Contact Size	Order Code	1+	10+	25+	50+	100+
<b>Receptacle, Panel Mount, Pin Contacts</b>								
4	1	16	190-2656					
9	1	20	190-2657					
9	2	16	190-2658					
14	2	20	190-2661					
18	3	16	190-2662					
31	3	20	190-2663					
26	4	16	190-2664					
<b>Receptacle, Panel Mount, Socket Contacts</b>								
4	1	16	190-2665					
9	2	16	190-2666					
18	3	16	190-2667					
<b>Receptacle, Free-Hanging, Pin Contacts</b>								
4	1	16	190-2668					
9	1	20	190-2669					
9	2	16	190-2670					
14	2	20	190-2671					
18	3	16	190-2673					
31	3	20	190-2674					
<b>Plug, Free, Socket Contacts, IP67</b>								
4	1	16	190-2675					
9	2	16	190-2677					
18	3	16	190-2679					
26	4	16	190-2681					
9	1	20	190-2683					
14	2	20	190-2686					
31	3	20	190-2688					
<b>Plug, Free, Socket Contacts, IP68</b>								
4	1	16	190-2676					
9	2	16	190-2678					
18	3	16	190-2680					
26	4	16	190-2682					
9	1	20	190-2685					
14	2	20	190-2687					
31	3	20	190-2689					

# Circular Multipole - continued

## Clipper - High Seal Connectors - continued

No. of Ways	Shell Size	Contact Size	Order Code	1+	10+	25+	50+	100+
<b>Plug, Free, Pin Contacts</b>								
4	1	20	190-2690					
9	2	20	190-2691					
18	3	20	190-2692					

<b>Accessories</b>								
Thread	Shell Size	Order Code	1+	10+	25+	50+	100+	

<b>Cable Clamps, IP40</b>								
PG 13.5	1	190-2693						
PG 16	2	190-2694						
PG 21	3	190-2695						
PG 36	4	179-5742						

<b>Backshell, Straight, with Sealing Gland</b>								
PG 13.5	1	190-2698						
PG 16	2	190-2699						
PG 21	3	190-2700						
PG 36	4	190-2701						

<b>Backshell, R/A, with Sealing Gland</b>								
PG 13.5	1	190-2703						
PG 16	2	190-2704						
PG 21	3	190-2705						
PG 36	4	190-2706						

<b>Sealed Backnut, for Plugs with Size 16 Socket Contacts</b>								
1	190-2707							
2	190-2708							
3	190-2709							
4	190-2710							

<b>Sealed Backnut, for Plugs with Size 16 Pin Contacts</b>								
1	190-2711							

<b>Sealed Gaskets, for Panel Mount Receptacles</b>								
1	190-2712							
2	190-2713							
3	190-2715							
4	190-2716							

<b>Dust Caps, for Receptacles, IP67</b>								
1	190-2717							
2	190-2718							
3	190-2719							
4	190-2720							

<b>Crimp Contacts</b>								
Gender	AWG	Size	Order Code	1+	10+	50+	100+	250+
Pin	16-18	16	190-2721					
Socket	16-18	16	190-2722					
Pin	20-22	20	190-2723					
Socket	20-22	20	190-2724					

<b>Crimp Tool</b>								
			749-620					

## Connectors UTL Series



- Durability: 1000 cycles
- Vibration resistance: Sinusoidal vibrations per IEC 60512-4 - from 10 to 2000 Hz
- Connector Body, Backshell and Insert material: Thermoplastic
- Working voltage: 277VAC per UL 1977 277/480VAC per UL 1977
- Rated current: 16A
- Operating temperature from -40°C to +105°C
- Flammability rating of UL 94 5VA
- Resists Salt spray for 1000 hours
- UV resistant: F1 material UL 746C
- Sealing to IP68/69K - IP6X mated & un-mated IPX8 mated
- Latching retention System
- Compliant with Luminaires Standard UL1598 and IEC 60598
- Fire and Smoke: UL 945VA

No. of Ways	Contact Gender	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
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<b>Plug, In-Line</b>								
4	Pin	UTL6103G1P	210-2359					
4	Socket	UTL6103G1S	210-2360					

<b>Receptacles, Panel Mount</b>								
4	Pin	UTL0103G1P	210-2361					
4	Socket	UTL0103G1S	210-2362					

No. of Ways	Contact Gender	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
<b>Receptacle, Jam Nut</b>								
4	Pin	UTL7103G1P	210-2363					
4	Socket	UTL7103G1S	210-2364					
<b>Receptacle, In-Line</b>								
4	Pin	UTL1103G1P	210-2366					
4	Socket	UTL1103G1S	210-2367					
<b>Dust Cap</b>								
			UTL10DCG	210-2368				
<b>Machined Crimp Contacts, Size 16</b>								
16-20 AWG Pin	RM16M25K	210-2369		1+	10+	50+	100+	250+
14-16 AWG Pin	RM14M25K	210-2371						
16-20 AWG Socket	RC16M25K	210-2370						
14-16 AWG Socket	RC14M25K	210-2372						

## Trim Trio™ Waterproof Connectors

UTS Series, Plastic - IP68/IP69K



Contact size	# of pins, 180 deg	# of pins, 180 deg	# of pins, 180 deg
Shell size	10	12	16
Number of contacts	3, 4, 7, 8, 12	6, 10, 19	6, 10, 19
Shell size	10	12	16
Number of contacts	3, 4, 7, 8, 12	6, 10, 19	6, 10, 19
Shell size	10	12	16
Number of contacts	3, 4, 7, 8, 12	6, 10, 19	6, 10, 19

- 1/3 turn mating with audible click
- Available in 3 shell sizes - 9 contact arrangements
- 3, 4, 7, 8, 12, way use size 16 contacts (ordered separately) see UTO range for size 16 contacts
- 6, 10, 19 way uses size 20 contacts (ordered separately) see UTOW range for size 20 contacts
- IP69K per DIN40050
- IP68 - 10m under water for 1 week per IEC605289
- salt spray 500h
- 250 mating cycles
- RoHS compliant

Contact rating	See contact specs	Operating temperature	-40°C to +105°C
Test Voltage	2000V	Flammability Rating	UL94V-0 & NFF16101 Level 2
Insulation resistance	mΩ min.	Material	Thermoplastic

442603

## Free Plug with Backshell

UTS Series



- 3, 4, 7, 8, 12, way use size 16 contacts (ordered separately) see UTO range for size 16 contacts
- 6, 10, 19 way uses size 20 contacts (ordered separately) see UTOW range for size 20 contacts

442755

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+
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<b>Pin Housing - Accepts Pin Contacts</b>							
3 (2+G)	10	UTS6JC103P	120-8031				
4	10	UTS6JC104P	120-8033				
6	10	UTS6JC106P	120-8034				
4 (3+G)	12	UTS6JC124P	120-8035				
8	12	UTS6JC128P	120-8036				
10	12	UTS6JC1210P	120-8037				
7 (6+G)	14	UTS6JC147P	120-8038				
12	14	UTS6JC1412P	120-8039				
19	14	UTS6JC1419P	120-8040				

<b>Socket Housing - Accepts Socket Contacts</b>							
3 (2+G)	10	UTS6JC103S	120-8041				
4	10	UTS6JC104S	120-8042				
6	10	UTS6JC106S	120-8043				
4 (3+G)	12	UTS6JC124S	120-8045				
8	12	UTS6JC128S	120-8046				
10	12	UTS6JC1210S	120-8047				
7 (6+G)	14	UTS6JC147S	120-8048				
12	14	UTS6JC1412S	120-8049				
19	14	UTS6JC1419S	120-8050				

<b>Dustcaps</b>							
10	UTS610DCG	120-8054					
14	UTS614DCG	120-8057					



## Panel Mount Receptacle

With Jam Nut, UTS Series



- 3, 4, 7, 8, 12, way use size 16 contacts (ordered separately) see UT0 range for size 16 contacts
- 6, 10, 19 way uses size 20 contacts (ordered separately) see UTOW range for size 20 contacts



442604

No. of Ways	Shell Size	Mftrs. List No.	Order Code	Price Each			
				1+	25+	100+	250+
<b>Pin Housing - Accepts Pin Contacts</b>							
3 (2+G)	10	UTS7103P	120-8011				
4	10	UTS7104P	120-8012				
6	10	UTS7106P	120-8013				
4 (3+G)	12	UTS7124P	120-8014				
8	12	UTS7128P	120-8015				
7 (6+G)	14	UTS7147P	120-8017				
12	14	UTS71412P	120-8018				
19	14	UTS71419P	120-8021				
<b>Socket Housing - Accepts Socket Contacts</b>							
3 (2+G)	10	UTS7103S	120-8022				
4	10	UTS7104S	120-8023				
6	10	UTS7106S	120-8024				
4 (3+G)	12	UTS7124S	120-8025				
8	12	UTS7128S	120-8026				
10	12	UTS71210S	120-8027				
7 (6+G)	14	UTS7147S	120-8028				
12	12	UTS71412S	120-8029				
19	19	UTS71419S	120-8030				
<b>Dustcaps</b>							
10		UTS10DCG	120-8051				
12		UTS12DCG	120-8052				
14		UTS14DCG	120-8053				

## UTS Overmold Harnesses



**NEW**

- The overmoulding further enhances the sealing properties of the UTS range
- UTS Connector / UTS Hi-Seal Connector to Free End Harnesses
- IP68/69K
- UTS Hi-Seal version remains watertight even when unmated and without an environmental cap
- Option for straight or R/A cable exit
- Wires are encapsulated inside the moulding
- Rated Voltage - UO/U: 300/500V
- Operating Temp. = -40°C to +80°C

618755

No. of Ways	Insert Arrangement	Cable Length	Order Code	Price Each			
				1+	10+	25+	50+
<b>UTS Connector, Pin Contacts - Free End</b>							
4	10-4	1m	182-5387				
4	10-4	5m	182-5388				
8	12-8	1m	182-5389				
8	12-8	5m	182-5390				
12	14-12	1m	182-5391				
12	14-12	5m	182-5393				
<b>UTS Connector, Socket Contacts - Free End</b>							
4	10-4	1m	182-5394				
4	10-4	5m	182-5395				
8	12-8	1m	182-5396				
8	12-8	5m	182-5397				
12	14-12	1m	182-5398				
12	14-12	5m	182-5399				
<b>UTS Connector, Pin Contacts, R/A - Free End</b>							
4	10-4	1m	182-5400				
4	10-4	5m	182-5401				
8	12-8	1m	182-5402				
8	12-8	5m	182-5403				
12	14-12	1m	182-5404				
12	14-12	5m	182-5405				
<b>UTS Connector, Socket Contacts, R/A - Free End</b>							
4	10-4	1m	182-5406				
4	10-4	5m	182-5407				
8	12-8	1m	182-5408				

No. of Ways	Insert Arrangement	Cable Length	Order Code	Price Each			
				1+	10+	25+	50+
<b>UTS Connector, Socket Contacts, R/A - Free End</b>							
8	12-8	5m	182-5411				
12	14-12	1m	182-5412				
12	14-12	5m	182-5413				
<b>UTS Hi-Seal Connector, Pin Contacts - Free End</b>							
6	10-6	1m	182-5414				
6	10-6	5m	182-5415				
10	12-10	1m	182-5416				
10	12-10	5m	182-5417				
19	14-19	1m	182-5418				
19	14-19	5m	182-5419				
<b>UTS Hi-Seal Connector, Socket Contacts - Free End</b>							
6	10-6	1m	182-5420				
6	10-6	5m	182-5421				
10	12-10	1m	182-5423				
10	12-10	5m	182-5424				
19	14-19	1m	182-5425				
19	14-19	5m	182-5426				
<b>UTS Hi-Seal Connector, Pin Contacts, R/A - Free End</b>							
6	10-6	1m	182-5427				
6	10-6	5m	182-5428				
10	12-10	1m	182-5429				
10	12-10	5m	182-5430				
19	14-19	1m	182-5431				
19	14-19	5m	182-5432				
<b>UTS Hi-Seal Connector, Socket Contacts, R/A - Free End</b>							
6	10-6	1m	182-5433				
6	10-6	5m	182-5435				
10	12-10	1m	182-5436				
10	12-10	5m	182-5437				
19	14-19	1m	182-5438				
19	14-19	5m	182-5439				

## 'Metalok Bantam' Crimp 3 to 48 Way, 13A



### IP65 Sealed

Circular plastic connector shells with 5 polarising keyways and a snap-locking bayonet ring. The housings can accept either machined, two-piece or coaxial contacts as a pin or socket insert. **IP65** sealing can be achieved with the environmental hood and 'O' ring panel seal. The range is **UL** Recognised and the 3 and 7 way also have **VDE** approval

**Note:** The 3 & 4 and 7 & 23 way options within this range occupy the same shell size, therefore when ordering accessories such as 'O' ring seals, dust caps and cable strain reliefs the shell size is common to both, i.e., 10 and 18 respectively.

Contact rating	See contact specs	Housing	BlackGlass Filled Polyester, <b>UL94-V0</b>
Operating voltage	750V rms	Bayonet ring	Brass, nickel plated
Insulation resistance	MΩ min.		500 mating cycles
Temperature range	-55°C to +125°C	Dust cap	Copper alloy, Nickel plated

### Free Housings, UTG Series



Pin housing

Socket housing

Mftrs. List No. UTG-6/yy/xxzN, UTG-6/yy/xxzNVDE for 3 and 7 ways, where xx= No Of Ways, yy=Shell size and z=P Pin, S Socket

224243

No. of Ways	Shell Size	Order Code	Price Each				
			1+	25+	100+	250+	500+
<b>Pin Housing - Accepts Pin Contacts</b>							
3	10	150-619					
4	10	105-317					
7	18	105-318					
8	12	105-319					
12	14	105-320					
19	16	105-321					
23	18	105-322					
28	20	105-323					
35	22	105-324					
48	24	105-325					
<b>Socket Housing - Accepts Socket Contacts</b>							
3	10	150-621					
4	10	105-335					
7	18	105-336					
8	12	105-337					
12	14	105-338					

# Circular Multipole - continued

## 'Metalok Bantam' Crimp 3 to 48 Way, 13A - continued

### IP65 Sealed - continued

No. of Shell Ways	Size	Order Code	1+	25+	100+	250+	500+
<b>Socket Housing - Accepts Socket Contacts</b>							
19	16	105-339					
23	18	105-340					
28	20	105-341					
35	22	105-342					
48	24	105-343					

### Hoods, UTG Series



AC basic



PG environmental

Both hoods have cable strain relief and the environmental hood also has multiple knockout rubber seals giving protection to IP65.

Mfrs. List No. UTGxx/AC or PG, where xx=Shell size

209083

No. of Shell Ways	Shell Size	Order Code	1+	25+	100+	250+	500+
<b>AC Basic</b>							
3&4	10	105-579					
8	12	105-581					
12	14	105-582					
19	16	105-583					
7&23	18	105-580					
28	20	105-585					
35	22	105-586					
48	24	105-587					
<b>PG Environmental</b>							
3&4	10	105-588					
8	12	105-590					
12	14	105-591					
19	16	105-592					
7&23	18	105-589					
28	20	105-594					
35	22	105-595					
48	24	105-596					

### Panel Housings, UTG Series



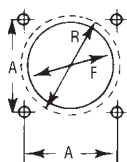
Pin housing



Socket housing



Dust cap



Panel cut-out (dimensions in pricing block)

Mfrs List No. Panel Housings UTG0/yy/xx/zVDE for 3 and 7 ways, where xx = No of Ways, yy = Shell size, and z = P pin, S socket 'O' Ring Panel Seal ORxxSPGE01, where xx = Shell size Dust Cap UTGxxDCG, where xx = Shell size

219789

No. of Shell Ways	Size A	F	R	Price Each	
3	10	18.2	15.1	17.3	150-622
4	10	18.2	15.1	17.3	105-344
7	18	27.0	27.8	31.3	105-345
8	12	20.5	18.2	21.8	105-346
12	14	22.9	21.4	25.0	105-347
19	16	24.5	24.6	28.1	105-348
23	18	27.0	27.8	31.3	105-349
28	20	29.2	30.9	34.5	105-350
35	22	31.6	34.1	37.7	105-351
48	24	34.7	37.3	40.9	105-352

No. of Shell Ways	Size A	F	R	Price Each	
<b>Socket Housing - Accepts Socket Contacts</b>					
3	10	18.2	15.1	17.3	150-620
4	10	18.2	15.1	17.3	105-326
7	18	27.0	27.8	31.3	105-327
8	12	20.5	18.2	21.8	105-328
12	14	22.9	21.4	25.0	105-329
19	16	24.5	24.6	28.1	105-330
23	18	27.0	27.8	31.3	105-331
28	20	29.2	30.9	34.5	105-332
35	22	31.6	34.1	37.7	105-333
48	24	34.7	37.3	40.9	105-334

'O' Ring Seals (5 per pack)	Price Per Pack
7 & 23 18	151-760
28 20	121-2617

No. of Shell Ways	Shell Size	Price Each
3 & 4	10	257-254
8	12	257-266
12	14	257-278
19	16	257-280
7 & 23	18	257-291
28	20	257-308
48	24	257-321

### Trim Trio™

#### UTO Series - IP68 Sealed



Metal circular connector with metal bayonet coupling system.

- Use size 16 contacts
- Suitable for shielding applications
- Available in 8 shell sizes, 4-48 contact arrangements
- Intermateable, interchangeable and in-

- termountable with TRIM TRIO "UTG" and "UTP" industrial connector families
- IP68 and IP69K sealed
- salt spray 48h
- 500 mating cycles
- RoHS compliant

Contact rating  
Test Voltage  
Insulation resistance  
Operating temperature  
Housing  
Shell

See contact specs  
2000V  
mΩ min.  
-40°C to +105°C  
(Body insert) UL94V-0  
Zinc Alloy

419508

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## Free Housing, UTO Series



Pin Housing

Socket Housing

- Uses size 16 contacts
- Order contacts separately

419515

No. of Shell	Ways	Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
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### Pin Housing - Accepts Pin Contacts

4	10	UT06104PH	100-7205	●
8	12	UT06128PH	100-7206	●
12	14	UT061412PH	100-7207	●
19	16	UT061619PH	100-7209	●
23	18	UT061823PH	100-7211	●
28	20	UT062028PH	100-7212	●
35	22	UT062235PH	100-7213	●
48	24	UT062448PH	100-7214	●

### Socket Housing - Accepts Socket Contacts

4	10	UT06104SH	100-7197	●
8	12	UT06128SH	100-7198	●
12	14	UT061412SH	100-7199	●
19	16	UT061619SH	100-7200	●
23	18	UT061823SH	100-7201	●
28	20	UT062028SH	100-7202	●
35	22	UT062235SH	100-7203	●
48	24	UT062448SH	100-7204	●

## Panel Housing, UTO Series



Socket Housing

Pin Housing

- Uses size 16 contacts
- Order contacts separately

419521

No. of Shell	Ways	Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
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### Pin Housing - Accepts Pin Contacts

4	10	UT00104PH6	100-7170	●
8	12	UT00128PH6	100-7171	●
12	14	UT001412PH6	100-7172	●
19	16	UT001619PH6	100-7173	●
23	18	UT001823PH6	100-7174	●
48	24	UT002448PH6	100-7177	●

### Socket Housing - Accepts Socket Contacts

4	10	UT00104SH6	100-7161	●
8	12	UT00128SH6	100-7162	●
12	14	UT001412SH6	100-7163	●
19	16	UT001619SH6	100-7164	●
23	18	UT001823SH6	100-7165	●
28	20	UT002028SH6	100-7167	●
35	22	UT002235SH6	100-7168	●

## Rear Mount Panel Housing, UTO Series

With Jam Nut



Pin Housing

Socket Housing

- Uses size 16 contacts
- Order contacts separately

419526

No. of Shell	Ways	Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
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### Pin Housing - Accepts Pin Contacts

4	10	UT07104PH6	100-7188	●
12	14	UT071412PH6	100-7190	●
23	18	UT071823PH6	100-7193	●
28	20	UT072028PH6	100-7194	●
48	24	UT072448PH6	100-7196	●

No. of Shell	Ways	Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
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### Socket Housing - Accepts Socket Contacts

4	10	UT07104SH6	100-7179	●
8	12	UT07128SH6	100-7181	●
12	14	UT071412SH6	100-7182	●
19	16	UT071619SH6	100-7183	●
23	18	UT071823SH6	100-7184	●
28	20	UT072028SH6	100-7185	●
48	24	UT072448SH6	100-7187	●

## Hoods - IP68, UTO & UTOW Series



419544

Shell Range	Clamping Size (∅mm) Min / Max	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
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### IP68

10	3 - 6	UT010JCS	100-7277	●
12	6 - 10	UT012JCS	100-7278	●
14	6 - 10	UT014JCS	100-7279	●
16	9.5 - 14	UT016JCS	100-7280	●
18	9.5 - 14	UT018JCS	100-7281	●
20	11.5 - 18	UT020JCS	100-7283	●
24	11.5 - 18	UT024JCS	100-7285	●

### IP68 - Large Cable Entry

10	5 - 8	UT010JCSL	100-7286	●
12	8 - 12	UT012JCSL	100-7287	●
14	8 - 12	UT014JCSL	100-7288	●
16	11.5 - 18	UT016JCSL	100-7289	●
22	15 - 24	UT022JCSL	100-7292	●

### IP68 - Shielded

10	4 - 6.5	UT0S10JCS	100-7295	●
12	7 - 10.5	UT0S12JCS	100-7296	●
14	7 - 10.5	UT0S14JCS	100-7297	●
16	10 - 14.5	UT0S16JCS	100-7298	●
18	10 - 14.5	UT0S18JCS	100-7299	●
20	13.5 - 18	UT0S20JCS	100-7301	●
24	13.5 - 18	UT0S24JCS	100-7303	●

### IP68 - Shielded, Large Cable Entry

10	5 - 8.5	UT0S10JCSL	100-7304	●
12	8 - 12.5	UT0S12JCSL	100-7305	●
14	8 - 12.5	UT0S14JCSL	100-7306	●
16	13.5 - 18	UT0S16JCSL	100-7307	●
18	13.5 - 18	UT0S18JCSL	100-7308	●
20	17 - 24	UT0S20JCSL	100-7309	●
22	17 - 24	UT0S22JCSL	100-7310	●
24	17 - 24	UT0S24JCSL	100-7311	●

## Hoods with Strain Relief, UTO & UTOW Series



419541

Shell Size	Mfrs. List No.	Order Code	1+	25+	100+	250+	500+
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10	UT010AC	100-7267	●
12	UT012AC	100-7268	●
14	UT014AC	100-7271	●
16	UT016AC	100-7272	●
18	UT018AC	100-7273	●
20	UT020AC	100-7274	●
22	UT022AC	100-7275	●
24	UT024AC	100-7276	●

# Circular Multipole - continued

## Dust Caps, UTO & UTOW Series



419562

Shell	Mftrs.	Price Each					
Size	List No.	Order Code	1+	25+	100+	250+	500+
10	UT010DCG	100-7313					
12	UT012DCG	100-7314					
14	UT014DCG	100-7315					
16	UT016DCG	100-7316					
18	UT018DCG	100-7317					
22	UT022DCG	100-7319					

## TRIM TRIO Stamped & Formed Crimp Contacts



Trim Trio contacts can be used in any contact position in any connector from Souriau's **UTS, UTG, UTO, UTP, UTGS, SMS, MBG, MS-M** or **MSG** product ranges.

### Specifications:-

- Current rating: 13A
- Body material: Copper alloy
- Contact plating: Gold flash over Nickel

**NEW**

638121

Wire Range (AWG)	Mftrs. List No.	Order Code	1+	5+	15+	25+
<b>Pack of 25</b>						
<b>Socket Contact - Gold Flash Plating</b>						
14AWG	SC14ML1S31	183-8396				
18AWG to 16AWG	SC16ML1S31	183-8446				
<b>Socket Contact - Gold Flash Plating - Wire &amp; Insulation Crimp</b>						
18AWG to 16AWG	SC16ML1S31	183-8397				
22AWG to 20AWG	SC20ML1S31	183-8447				
26AWG to 24AWG	SC24ML1S31	183-8399				
<b>Socket Contact - 0.75µ Gold Plating</b>						
14AWG	SC14ML1S18	183-8400				
18AWG to 16AWG	SC16ML1S18	183-8402				
<b>Socket Contact - 0.75µ Gold Plating - Wire &amp; Insulation Crimp</b>						
18AWG to 16AWG	SC16ML1S18	183-8401				
22AWG to 20AWG	SC20ML1S18	183-8403				
26AWG to 24AWG	SC24ML1S18	183-8405				
<b>Pin Contact - Gold Flash Plating</b>						
14AWG	SM14ML1S31	183-8406				
18AWG to 16AWG	SM16ML1S31	183-8408				
<b>Pin Contact - Gold Flash Plating - Wire &amp; Insulation Crimp</b>						
18AWG to 16AWG	SM16ML1S31	183-8407				
22AWG to 20AWG	SM20ML1S31	183-8409				
26AWG to 24AWG	SM24ML1S31	183-8410				
<b>Pin Contact - 0.75µ Gold Plating</b>						
14AWG	SM14ML1S18	183-8411				
18AWG to 16AWG	SM16ML1S18	183-8413				
<b>Pin Contact - 0.75µ Gold Plating - Wire &amp; Insulation Crimp</b>						
18AWG to 16AWG	SM16ML1S18	183-8412				
22AWG to 20AWG	SM20ML1S18	183-8414				
26AWG to 24AWG	SM24ML1S18	183-8415				
<b>Reel of 3000</b>						
<b>Socket Contact - Gold Flash Plating</b>						
14AWG	SC14M1S31	183-8375	1+	5+		
18AWG to 16AWG	SC16M1S31	183-8377				
<b>Socket Contact - Gold Flash Plating - Wire &amp; Insulation Crimp</b>						
18AWG to 16AWG	SC16M1S31	183-8376				
22AWG to 20AWG	SC20M1S31	183-8378				
26AWG to 24AWG	SC24M1S31	183-8379				
<b>Socket Contact - 0.75µ Gold Plating</b>						
14AWG	SC14M1S18	183-8380				
18AWG to 16AWG	SC16M1S18	183-8382				

Wire Range (AWG)	Mftrs. List No.	Order Code	1+	5+	15+	25+
<b>Socket Contact - 0.75µ Gold Plating - Wire &amp; Insulation Crimp</b>						
18AWG to 16AWG	SC16M1S18	183-8381				
22AWG to 20AWG	SC20M1S18	183-8383				
26AWG to 24AWG	SC24M1S18	183-8384				
<b>Pin Contact - Gold Flash Plating</b>						
14AWG	SM14M1S31	183-8385				
18AWG to 16AWG	SM16M1S31	183-8388				
<b>Pin Contact - Gold Flash Plating - Wire &amp; Insulation Crimp</b>						
18AWG to 16AWG	SM16M1S31	183-8387				
22AWG to 20AWG	SM20M1S31	183-8389				
26AWG to 24AWG	SM24M1S31	183-8390				
<b>Pin Contact - 0.75µ Gold Plating</b>						
14AWG	SM14M1S18	183-8391				
18AWG to 16AWG	SM16M1S18	183-8393				
<b>Pin Contact - 0.75µ Gold Plating - Wire &amp; Insulation Crimp</b>						
18AWG to 16AWG	SM16M1S18	183-8392				
22AWG to 20AWG	SM20M1S18	183-8394				
26AWG to 24AWG	SM24M1S18	183-8395				

## TRIM TRIO Crimp Tooling

**NEW**



- Crimp tool for use with the TRIM TRIO crimp contacts
- **NB** - the handles and the heads must be ordered separately

Contact Size	Contact Mftr. Part Number	Head Mftr. Part Number
#20	RM/RC 24W3 -	S20RCM
	RM/RC 20W3 -	
	RM/RC 18W3 -	
	SM/SC 24W3S - (1)	S20SCM20
	SM/SC 24WL3S - (2)	
	SM/SC 20W3S - (1)	
SM/SC 20WL3S - (2)		
#16	RM/RC 28M1 -	S16RCM20
	RM/RC 24M9 -	
	RM/RC 20M13 -	
	RM/RC 20M12 -	S16RCM16
	RM/RC 16M23 -	
	RM/RC 14M50 -	
	RM/RC 14M30 -	S16RCM14
	SM/SC 24M1 -	S16SCM20
	SM/SC 24ML1 -	
	SM/SC 20M1 -	
	SM/SC 20ML1 -	S16SCML1
	SM/SC 16M1 -	
	SM/SC 16ML1 -	
	SM/SC 14M1 -	S16SCML11
	SM/SC 14ML1 -	
SM/SC 16M11 -		
SM/SC 16ML11 -		

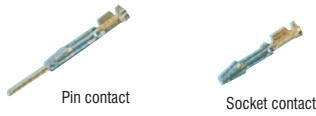
638158

Contact Size	Mftrs. List No.	Order Code	1+	5+
<b>Handles</b>				
SHANDLES		183-8364		
<b>Heads</b>				
20	S20RCM	183-8365		
20	S20SCM20	183-8366		
16	S16RCM20	183-8367		
16	S16RCM16	183-8368		
16	S16RCM1450	183-8369		
16	S16RCM14	183-8370		
16	S16SCM20	183-8371		
16	S16SCML1	183-8372		
16	S16SCML11	183-8373		

### TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at [farnell.com](http://farnell.com)

## Metalok Bantam, Qikmate, UTG, UTO & UTS Contacts



Pin contact

Socket contact

The contacts are two part. The body is made of a highly conductive copper alloy with a stainless steel outer spring in either tin or gold plated options. Gold plated contacts do not oxidise and are therefore more suitable for use in corrosive atmospheres.

Contact rating 13A @ 750Vrms Contacts Copper Alloy, Gold 1.5µ  
Insulation resistance 6mΩ max. Copper Alloy, Gold 0.25µ, over nickel 3µ

This also leads to lower contact pressure and are therefore suitable for larger way connectors. Both fit the 'Metalok Bantam', Qikmate', UTG & UTO housings.

209358

Order Multiple=25

Wire Size	Order Code	Price Each			
		25+	100+	500+	1K+
<b>Tin Plated Pins</b>					
18—16AWG, 0.8—1.5mm <sup>2</sup>	365-1927				
22—20AWG, 0.35—0.5mm <sup>2</sup>	365-1939				
26—24AWG, 0.13—0.25mm <sup>2</sup>	365-1940				
<b>Tin Plated Sockets</b>					
18—16AWG, 0.8—1.5mm <sup>2</sup>	365-1952				
22—20AWG, 0.35—0.5mm <sup>2</sup>	365-1964				
26—24AWG, 0.13—0.25mm <sup>2</sup>	365-1976				
<b>Gold Plated Pins</b>					
18—16AWG, 0.8—1.5mm <sup>2</sup>	365-1988				
22—20AWG, 0.35—0.5mm <sup>2</sup>	365-1990				
26—24AWG, 0.13—0.25mm <sup>2</sup>	365-2087				
<b>Gold Plated Sockets</b>					
18—16AWG, 0.8—1.5mm <sup>2</sup>	365-2002				
22—20AWG, 0.35—0.5mm <sup>2</sup>	365-2014				
26—24AWG, 0.13—0.25mm <sup>2</sup>	365-2099				

## Solid Machined Contacts



Socket contact

Pin contact

Gold plated solid machined crimp contacts suitable for heavy duty and high performance applications. The snap-in pins and sockets are colour coded for different wire sizes.

Contact rating 13A @ 750Vrms Contacts Copper Alloy, 0.4µ Gold plated  
Contact resistance 3mΩ max.

Mfrs. List No. RM16M23K = 365-2026, RM20M12K = 365-2038, RM24M9K = 365-2040  
RC16M23K = 365-2051, RC20M12K = 365-2063, RC24M9K = 365-2075

209359

Wire size	Order Code	Price Each			
		25+	50+	250+	1K+
<b>Pins</b>					
20—16AWG, 0.52—1.5mm <sup>2</sup>	365-2026				
22—20AWG, 0.32—0.52mm <sup>2</sup>	365-2038				
26—24AWG, 0.13—0.2mm <sup>2</sup>	365-2040				
<b>Sockets</b>					
20—16AWG, 0.52—1.5mm <sup>2</sup>	365-2051				
22—20AWG, 0.32—0.52mm <sup>2</sup>	365-2063				
26—24AWG, 0.13—0.2mm <sup>2</sup>	365-2075				

## Sub-Miniature Coaxial Contacts



Coaxial pins and sockets are supplied in four piece parts, so that the inner and outer conductors can be crimped individually. Suitable for use with RG178 cable.

219770

Coaxial Kit	Order Code	Price Each			
		1+	100+	500+	1K+
MaleRMDXK10D28	105-953				
FemaleRCDXK1D28	105-954				

## Tooling



Two piece contact crimp tool

Machined and coaxial contact crimp tool



Extractor tool

Two high quality metal ratchet hand crimp tools. The machined and coaxial contact crimp tool requires a positioner for each contact. Coaxial contacts require both an inner and outer positioner.

Crimp Tool Settings

Coaxial Contact		Machined Contact				
Inner	Outer	16AWG	20AWG	22AWG	24AWG	26AWG
1	8	8	6/7	5/7	6	5

209361

Crimp Tools	Order Code	Price Each
Machined & coaxial contacts	105-992	
<b>Positioners</b>		
Machined contact	151-779	
Coaxial, inner	105-993	
Coaxial, outer	105-994	
<b>Extraction Tool</b>		
For all contacts	105-498	

## Plastic UTP Connector



- Designed to be interchangeable with the 'Metalok Bantam' range.
- Contacts, Hoods, 'O' ring seals, dust caps, layouts and mounting dimensions are common to both ranges.
- Polyester **UL94V-0** construction.

Contact rating See contact specs Temperature range -25°C to +125°C  
Operating voltage 750V rms Housing Black Polyester UL94V-0  
Insulation resistance mΩ min. Bayonet ring Black Polyester UL94V-0

209117

## Free Housings, UTP Series



Mfrs. List No. UTP/6/yy/xx/z, where xx=no. of ways, yy=shell size, Z=P, Pin, S, Socket

224244

No. of Ways	Shell Size	Order Code	Price Each				
			1+	25+	100+	250+	500+
<b>Pin Housing - Accepts Pin Contacts</b>							
4	10	535-280					
8	12	535-291					
12	14	535-308					
19	16	535-310					
23	18	535-321					
28	20	535-333					
35	22	535-345					
48	24	535-357					
<b>Socket Housing - Accepts Socket Contacts</b>							
8	12	535-370					
12	14	535-382					
28	20	535-412					
35	22	535-424					

**FREE GLOBAL LEGISLATION SUPPORT**

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# Circular Multipole - continued

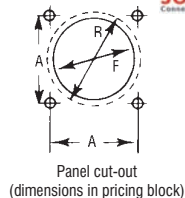
## Panel Housings, UTP Series



Pin housing



Socket housing



Mfrs. list No. UTP0/yy/xx/z where xx=No. of ways, yy=Shell size and z= P Pin or S Socket

224245

No. of Ways	Shell Size	Cut-out Dimensions			Order Code	Price Each				
		A	F	R		1+	25+	100+	250+	500+

### Pin Housing - Accepts Pin Contacts

4	10	18.2	15.1	17.3	535-448					
8	12	20.5	18.2	21.8	535-450					
12	14	22.9	21.4	25.0	535-461					
28	20	29.2	30.9	34.5	535-497					

### Socket Housing - Accepts Socket Contacts

4	10	18.2	15.1	17.3	535-527					
8	12	20.5	18.2	21.8	535-539					
12	14	22.9	21.4	25.0	535-540					
19	16	24.5	24.6	28.1	535-552					
23	18	27.0	27.8	31.3	535-564					
28	20	29.2	30.9	34.5	535-576					

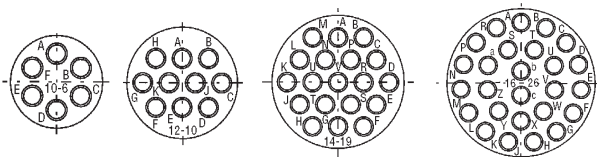
## 'Sealok' Miniature Bayonet Connector

- Intermateable interchangeable and technically comparable with MIL-C-26482 Series 1 military connectors
  - Available in four shell sizes and insert arrangements
  - Option for sealing to IP65
  - Metal bayonet coupling system
  - Suitable for wide range of applications
- Contact rating: See contact specs  
Operating voltage: 1500V rms  
Insulation resistance: mΩ min.  
Temperature range: -55°C to +125°C
- Durability Housing: 500 mating cycles (Body)GF Polyester UL94V-0 (Coupling) Nickel plated  
Sealing: Neoprene Rubber



209191

### Insert Arrangements



## Panel Housing



890-534 Pin housing

890-601 Dust Cap



209202

No. of Ways	Shell Size	Mfrs. List No.	Order Code	Price Each			
				1+	25+	100+	250+
<b>Plastic Dust Caps</b>							
10		UTP10DCG	890-601				
12		UTP12DCG	890-613				
14		UTP14DCG	890-625				
16		UTP16DCG	890-637				

## Trim Trio™

### UTOW Series, High Density - IP68 Sealed



- Identical shells from military connectors complying to MIL-C-26482 series 1
- Use size 20 contacts
- Suitable for EMC requirements
- Available in 8 shell sizes - 6 to 61 contact arrangements
- IP68 and IP69K sealed
- salt spray 48h
- 500 mating cycles
- RoHS compliant

Contact rating	See contact specs	Housing Shell Finish	(Body insert) UL94V-0 Zinc Alloy Nickel
Test Voltage	1500V		
Insulation resistance	mΩ min.		
Operating temperature	-40°C to ++105°C		

419532

## Free Housing, UTOW Series



Pin Housing

Socket Housing

- Uses UTO series hoods and dust caps
- Uses size 20 contacts
- Order contacts separately

419533

No. of Ways	Shell Size	Mfrs. List No.	Order Code	Price Each				
				1+	25+	100+	250+	500+

### Pin Housing - Accepts Pin Contacts

6	10	UTOW6106PH	100-7259					
10	12	UTOW61210PH	100-7260					
19	14	UTOW61419PH	100-7261					
26	16	UTOW61626PH	100-7262					
32	18	UTOW61832PH	100-7263					
55	22	UTOW62255PH	100-7265					
61	24	UTOW62461PH	100-7266					

### Socket Housing - Accepts Socket Contacts

10	12	UTOW61210SH	100-7251					
19	14	UTOW61419SH	100-7252					
16	16	UTOW61626SH	100-7253					
41	20	UTOW62041SH	100-7255					
55	22	UTOW62255SH	100-7256					
61	24	UTOW62461SH	100-7258					

## Panel Housing, UTOW Series



Socket Housing

Pin Housing

- Uses size 20 contacts
- Order contacts separately

419534

No. of Ways	Shell Size	Mfrs. List No.	Order Code	Price Each				
				1+	25+	100+	250+	500+

### Pin Housing - Accepts Pin Contacts

6	10	UTOW0106PH6	100-7224					
10	12	UTOW01210PH6	100-7225					
19	14	UTOW01419PH6	100-7226					
26	16	UTOW01626PH6	100-7227					
55	22	UTOW02255PH6	100-7230					
61	24	UTOW02461PH6	100-7231					

### Socket Housing - Accepts Socket Contacts

6	10	UTOW0106SH6	100-7215					
10	12	UTOW01210SH6	100-7216					
19	14	UTOW01419SH6	100-7217					
26	16	UTOW01626SH6	100-7218					
55	22	UTOW02255SH6	100-7222					
61	24	UTOW02461SH6	100-7223					



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[farnell.com/ibuy](http://farnell.com/ibuy)

## Rear Mount Panel Housing

With Jam Nut, UTOW Series



Socket Housing



Pin Housing

- Uses size 20 contacts
- Order contacts separately

419535

No. of Shell		Price Each					
Ways	Size Mftrs. List No.	Order Code	1+	25+	100+	250+	500+
<b>Pin Housing - Accepts Pin Contacts</b>							
6	10	UTOW7106PH6	100-7241				
26	16	UTOW71626PH6	100-7244				
<b>Socket Housing - Accepts Socket Contacts</b>							
6	10	UTOW7106SH6	100-7232				
10	12	UTOW71210SH6	100-7234				

## 'Sealok', UTOW & UTS Crimp Contacts



- Two part contact
- Body, gold or tin plated high quality copper alloy, stainless steel outer spring



Contact rating 5A  
 Contact resistance 9.5mΩ  
 Contacts Material Copper Alloy,  
 Contact Plating Copper Alloy,

Mftrs. List No. SM20WL3TK6 = 365-2348 SM20WL3S26 = 365-2385 SC20WL3S25 = 365-2403  
 SC20WL3TK6 = 365-2361 SM24WL3S26 = 365-2397 SC24WL3S25 = 365-2415

209188

Order Multiple=25		Price Each			
Wire Size	Order Code	25+	100+	250+	1K+
<b>Tin Plated Pins</b>					
22—20AWG, 0.35—0.5mm <sup>2</sup>	365-2348				
<b>Tin Plated Sockets</b>					
22—20AWG, 0.35—0.5mm <sup>2</sup>	365-2361				
<b>Gold Plated Pins</b>					
22—20AWG, 0.35—0.5mm <sup>2</sup>	365-2385				
26—24AWG, 0.13—0.25mm <sup>2</sup>	365-2397				
<b>Gold Plated Sockets</b>					
22—20AWG, 0.35—0.5mm <sup>2</sup>	365-2403				
26—24AWG, 0.13—0.25mm <sup>2</sup>	365-2415				

## Solid Machined Contacts: Size 20



Socket contact



Pin contact

Gold plated solid machined crimp contacts suitable for heavy duty and high performance applications.

Current rating 7.5A  
 Contact resistance 6mΩ max.  
 Contacts Copper Alloy, 0.4μ Gold plated

Mftrs. List No. RM24W3K = 100-7321, RM20W3K = 100-7323, MH860 = 105-992,  
 RC24W3K = 100-7322, RC20W3K = 100-7325, MH86301 = 111-0711,

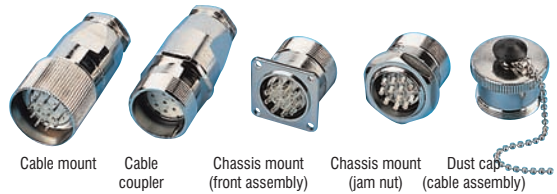
419564

Order Multiple= 1		Price Each			
Wire size	Order Code	1+	25+	100+	250+
<b>Pins</b>					
26—24AWG, 0.13—0.25mm <sup>2</sup>	100-7321				
22—20AWG, 0.35—0.5mm <sup>2</sup>	100-7323				
<b>Sockets</b>					
26—24AWG, 0.13—0.25mm <sup>2</sup>	100-7322				
22—20AWG, 0.35—0.5mm <sup>2</sup>	100-7325				
<b>Tooling</b>					
Crimp Tool	105-992				
Positioner	111-0711				

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## 'R' Series 2.5 Circular Connectors

'Clockwise'



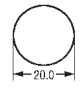
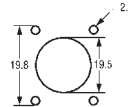
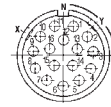
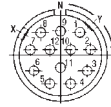
Cable mount

Cable coupler

Chassis mount (front assembly)

Chassis mount (jam nut)

Dust cap (cable assembly)



- A range of nickel plated circular connectors
- Solder bucket contacts
- Complete with EMC spring for full 360° RFI shielding
- Cable mount and cable coupler are fitted with PG cable gland
- Chassis mount version available as front assemblies or single through-hole assemblies complete with gasket
- Clockwise and numbering
- IP65 rating

Current rating: 7.5A  
 Rated voltage: 9 and 12 Way 1.5kV 380Vac  
 16 Way 250Vac  
 1.5kV3  
 Withstand voltage: 1.5kV3  
 Insulation resistance: ≤<sup>25</sup>MΩ-40°C 125°C  
 Contact resistance: ≥3mΩ  
 Temperature range: -40°C to +125°C

Housing: Copper Alloy, Nickel plated  
 Insulator: Thermoplastic **UL94V-0**

Contacts: Copper Alloy, Silver plated  
 Wire/conductor dia: 9 Way 6-10mm  
 12 and 16 Way 8-12mm  
 Thread size: 9 Way PG9  
 12 and 16 Way PG11

209230

## Cable Mount

'With EMC Spring'



209231

No. of Mftrs.		Price Each					
Ways	List No.	Order Code	1+	10+	50+	100+	250+
<b>Pin Contacts</b>							
9	8736+00022020	990-5731					
12	8990+00022030	990-5740					
16	8883+00022030	990-5758					
<b>Socket Contacts</b>							
9	8771+00022020	990-5707					
12	8923+00022030	990-5715					
16	8722+00022030	990-5723					

## Cable Coupler

'With EMC Spring'



209232

No. of Mftrs.		Price Each					
Ways	List No.	Order Code	1+	10+	50+	100+	250+
<b>Pin Contacts</b>							
9	9232+00022020	990-5766					
12	9095+00022030	990-5774					
16	9684+00022030	990-5782					
<b>Socket Contacts</b>							
9	8843+00022020	990-5790					
12	9198+00022030	990-5804					
16	9143+00022030	990-5812					

## Chassis Mount



209234

No. of Mftrs.		Price Each					
Ways	List No.	Order Code	1+	10+	50+	100+	250+
<b>Front Assembly with Gasket</b>							
<b>Pin Contacts</b>							
9	8764+20101200	990-5820					
12	8702+50101200	990-5839					
16	8701+50101200	990-5847					
<b>Socket Contacts</b>							
9	8705+50101200	990-5855					
12	8703+50101200	990-5863					
16	8707+50101200	990-5871					
<b>Jam Nut with Sealing Ring</b>							
<b>Pin Contacts</b>							
12	9159+50106202	990-5898					
<b>Socket Contacts</b>							
9	8728+50106202	990-5910					
12	8727+50106202	990-5928					
16	8945+50106202	990-5936					

# Circular Multipole - continued

## Accessories



209233

Type	Mfrs.		Price Each				
	List No.	Order Code	1+	10+	50+	100+	250+
<b>Chassis Mount - Dust Cap</b>							
Front assembly	50.101102	990-5979					

## Epic Circon LS1 Series



The new EPIC Circon LS1 power connector has been specifically developed for industrial or commercial applications where a compact, rugged connector is required. The connectors guarantee an excellent EMC shielding, increased safety against intrusion of water and a clear visible and tangible action when mating. The contacts are crimp terminated that guarantees the highest quality whilst at the same time keeps installation costs low.

- Complies to the requirements of **DIN EN 61984**
- Highest protection against vibration, corrosion and EMI
- Protection class **IP68**
- Available in 2 different contact configurations 5+PE and 3+PE+4
- Contacts are crimp termination
- Easy and fast labelling of the connector through intergrated marking system
- **UL, CSA and VDE** approved

Current rating	1mm 7A 2mm 22A	Termination Mating cycles Contacts	Crimp 500 Brass, gold plated FPM
Test Voltage	630 / 6kV, AC	Seal	
Temperature range	-25°C to 125°C		
Protection	IP68 when mated		

386341

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
<b>Panel Mount Plug</b>					
5+Earth	76003000	860-3057			
4+3+Earth	76004000	860-3065			
<b>Cable Sockets - suitable for cable-to-cable &amp; cable-to-machine</b>					
5+Earth	76123100	860-3014			
4+3+Earth	76124100	860-3022			
<b>Cable Coupler Plugs - for cable-to-cable applications</b>					
5+Earth	76133000	860-3030			
4+3+Earth	76134000	860-3049			
<b>90° Panel Mount Plugs - patented swivel mechanism, adjustable orientation in 15° steps over a 330° angle</b>					
5+PE+PE	24420058	208-1351			
3+PE+4	24420056	208-1348			

## Epic Circon LS1 Series Tooling



- Tooling for Circon LS1 series crimp contacts

386346

	Order Code	Price Each
Crimp Tool	860-3073	
Locator	860-3081	

## Mini CPC Sealed, 4 and 9 Pole



Ideal for industrial, instrumentation and transportation applications where size, contact density and environmental exposure are primary concerns.

- Nylon housing offers good resistance to wide range of chemicals
- Easy grip 1/4 turn coupling with positive lock
- Anti vibration lock
- Front or rear jam nut mounting
- Fast coupling and uncoupling
- Sealed to **IP67**

Material Thermoplastic Working Voltage 600V  
Temp Range -55°C to 105°C Mating Cycles 500 - gold plated contacts, 50 - tin plated contacts  
Current Rating 7A, with 18AWG wire

335230.343458

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	50+	100+	250+
<b>Cable Plug</b>							
9	11	1445807-3	488-9563				
<b>Receptacle - Panel Mounting</b>							
4	8	1445421-3	488-9514				
9	11	1445816-3	488-9540				
<b>Free Receptacle</b>							
9	11	1445825-3	488-9551				
<b>Order Multiple = 10</b>							
Wire Size				10+	100+	500+	1K+
AWG	mm <sup>2</sup>						
<b>Pin Contacts - Gold Plated</b>							
26 - 22	0.12 - 0.3	170363-3	488-9575				
22 - 18	0.3 - 0.8	170364-3	488-9599				
<b>Pin Contacts - Tin Plated</b>							
22 - 26	0.12 - 0.35	170363-1	133-760				
18 - 22	0.3 - 0.8	170364-1	133-772				
<b>Socket Contacts - Gold Plated</b>							
26 - 22	0.12 - 0.3	170365-3	488-9587				
22 - 18	0.3 - 0.8	170366-3	488-9605				
<b>Socket Contacts - Tin Plated</b>							
22 - 26	0.12 - 0.35	170365-1	133-784				
18 - 22	0.3 - 0.89	170366-1	133-796				
<b>Order Multiple = 1</b>							
Shell Size				1+	50+	100+	250+
<b>Crimp Tool</b>							
26 - 22		91529-1	433-9873				
<b>Crimp Tool Frame</b>							
18 - 22		354940-1	360-170				
<b>Die Set</b>							
18 - 22		90759-2	421-3841				
<b>Insertion Tool</b>							
		455830-1	962-9645				
<b>Extraction Tool</b>							
		189727-1	165-1092				

## Cable Plugs-Series 1



Cable plug for Pin contacts

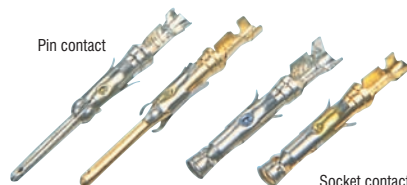
Cable plug for socket contacts

- Cable plugs accepting either pin or socket contacts
- Suitable for mating with panel or in line housing
- Easy grip coupling
- Course thread
- Anti vibration lock
- Fast coupling and uncoupling

219697

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	10+	100+	250+
<b>Cable Plug - Accepts Pin Contacts</b>							
4	11	182651-1	589-550				
9	17	211768-1	439-1871				
14	17	182649-1	589-561				
24	23	T2310-P24	240-590				
37	23	206305-1	105-6395				
<b>Cable Plug - Accepts Socket Contacts</b>							
4	11	182647-1	589-585				
9	13	182645-1	589-597				
9	17	211766-1	105-6336				
14	17	183039-1	439-1925				
16	17	182642-1	589-603				
24	23	206837-1	589-615				
37	23	206150-1	105-6397				

## Contacts-Series 1



Pin contact

Socket contact

- Tin plated or gold plated crimp contacts suitable for use with the series 1 range of Amp (CPC) Connectors.



Mfrs. List No.	Order Code	Mfrs. List No.	Order Code	Mfrs. List No.	Order Code
1-66103-8	109-8747	1-66360-2	109-8642	66101-4	592-985
1-66099-5	109-8749	66103-4	592-950	66360-1	439-1949
1-66361-2	109-8641	66099-4	592-961	91519-1	962-9416
1-66105-9	109-8751	66361-1	423-4182	91519-1	962-9424
1-66101-9	109-8753	66105-4	592-973	200893-2	962-9661

209326

**Order Multiple=10**

Wire Size	Order Code	10+	100+	500+
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**Tin Plated Pins**

24-20 AWG, 0.2-0.6mm <sup>2</sup>	109-8747			
18-16 AWG, 0.8-1.4mm <sup>2</sup>	109-8749			
1.5 - 2.5mm <sup>2</sup>	109-8641			

**Tin Plated Sockets**

24-20 AWG, 0.2-0.6mm <sup>2</sup>	109-8751			
18-16 AWG, 0.8-1.4mm <sup>2</sup>	109-8753			
1.5 - 2.5mm <sup>2</sup>	109-8642			

**Gold Plated Pins**

24-20 AWG, 0.2-0.6mm <sup>2</sup>	592-950			
18-16 AWG, 0.8-1.4mm <sup>2</sup>	592-961			

**Order Multiple=1**

		1+	10+	50+
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1.5 - 2.5mm <sup>2</sup> (pack of 10)	423-4182			
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**Order Multiple=10**

		10+	100+	500+
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**Gold Plated Sockets**

24-20 AWG, 0.2-0.6mm <sup>2</sup>	592-973			
18-16 AWG, 0.8-1.4mm <sup>2</sup>	592-985			
1.5 - 2.5mm <sup>2</sup>	439-1949			

**Order Multiple=1**

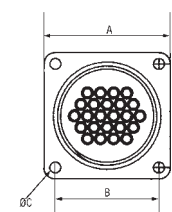
		1+
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Crimp Tool		
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18-14 AWG, 0.8 - 2.1mm <sup>2</sup>	962-9416	
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30-22 AWG, 0.05 - 0.6mm <sup>2</sup>	962-9424	
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Insertion Tool	962-9661	
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**Receptacles-Series 1**

Fixed Receptacle Dimensions

- Receptacles accepting either plug or socket contacts
- Available for fixed (bulkhead) or free (in-line) connections

Shell Size	A	B	C	Panel Cut-out Dia.
11	28.6	21.4	3.2	21.3
13	32.5	24.6	3.2	24.9
17	36.5	28.6	3.8	30.7
23	44.5	36.5	3.8	40.9

209271

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	50+	100+	250+
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**Free Receptacle - Accepts Pin Contacts**

4	11	206153-1	105-6398				
9	13	206705-2	589-640				
14	17	T1720-P14	240-680				
16	17	206036-3	589-652				
24	23	206838-2	105-6399				
37	23	206151-2	105-6400				

**Fixed Receptacle - Accepts Pin Contacts**

4	11	206061-1	589-688				
9	17	211767-1	105-6334				
14	17	183040-1	439-1913				
9	13	206705-1	105-6401				
16	17	206036-1	105-6403				
24	23	206838-1	592-833				
37	23	206151-1	105-6404				

**Free Receptacle - Accepts Socket Contacts**

4	11	206430-2	592-857				
9	17	211769-3	439-1895				
14	17	206043-3	105-6406				
37	23	206306-2	105-6407				

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	50+	100+	250+
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**Fixed Receptacle - Accepts Socket Contacts**

4	11	206430-1	592-882				
9	17	211769-1	439-1883				
14	17	206043-1	105-6408				
24	23	T2330-S24	240-849				
37	23	206306-1	105-6409				

**CPC Sealed Series 1**

- Pre-installed bonded peripheral seal
- Uses standard CPC1 contacts
- IP65 rating with flange and seal

**Material and Finish**

Housing Seal	Thermoplastic, UL94V-0, Black Elastomer, Grey
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229512

No. of Ways	Type	Mfrs. List No.	Order Code	1+	50+	100+
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**Flanged Receptacle - Accepts Pin Contacts**

4	Circular	206061-2	105-6091			
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**Free Plug - Accepts Socket Contacts**

4	Circular	206060-1	369-2437			
9	Circular	206708-1	369-2449			
16	Circular	206037-1	369-2450			
24	Circular	206837-1	589-615			
37	Circular	206150-1	105-6397			

**Flange Seal**

		81665-2	105-6105			
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**Tools-Series 1**

- Extraction and ratchet action crimp tool designed for use with the AMP (CPC) Series 1 range pin and socket contacts.

209026

Mfrs. List No.	Order Code	1+
Crimp Tool	91505-1951505-1	NEW 435-9215

**Cable Plugs-Series 2**

- High density cable plugs accepting either pin or socket contacts

209329

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	50+	100+	250+
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**Cable Plug - Accepts Pin Contacts**

8	11	206434-1	105-6410				
28	17	206039-1	105-6411				
57	23	206437-1	105-6412				

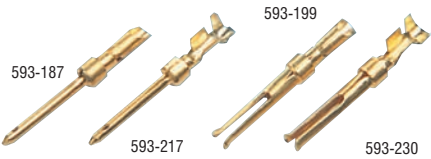
**Cable Plug - Accepts Socket Contacts**

8	11	205838-1	593-047				
9	11	206485-1	593-059				
28	17	205839-3	105-6413				

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## Contacts-Series 2



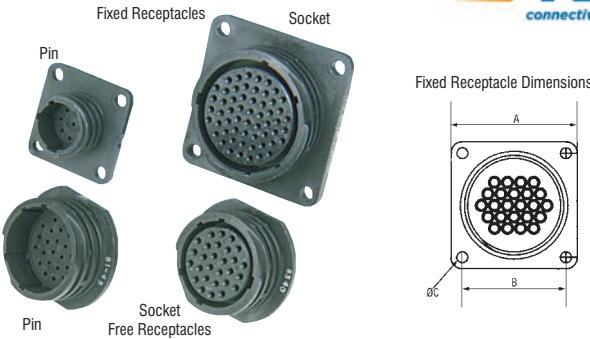
- Solder and crimp contacts suitable for use with the Series 2 range of Amp (CPC) connectors.

Mftrs. List No.	66570-3 = 593-187, 66506-9 = 593-217, 1-66506-0 = 593-242,	66569-3 = 593-199, 66505-9 = 593-229, 1-66504-0 = 593-254	66507-9 = 593-205, 66504-9 = 593-230,
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209125

Order Multiple = 10		Price Each		
Wire Size	Order Code	10+	100+	500+
<b>Solder Pins</b>				
0.08-0.09mm <sup>2</sup>	593-187 ●			
<b>Solder Sockets</b>				
0.08-0.09mm <sup>2</sup>	593-199 ●			
<b>Crimp-Gold Plated Pins</b>				
28-24 AWG, 0.08-0.2mm <sup>2</sup>	593-205 ●			
24-20 AWG, 0.2-0.52mm <sup>2</sup>	593-217 ●			
<b>Crimp-Gold Plated Sockets</b>				
28-24 AWG, 0.08-0.2mm <sup>2</sup>	593-229 ●			
24-20 AWG, 0.2-0.52mm <sup>2</sup>	593-230 ●			
<b>Crimp-Gold Flashed Pins</b>				
24-20 AWG, 0.2-0.52mm <sup>2</sup>	593-242 ●			
<b>Crimp-Gold Flashed Sockets</b>				
24-20 AWG, 0.2-0.52mm <sup>2</sup>	593-254 ●			

## Receptacles - Series 2



- High density receptacles accepting either plug or socket contacts
- Available for fixed (bulkhead) or free (in-line) connections

Shell Size	A	B	C	Panel Cut-out Dia.	Shell Size	A	B	C	Panel Cut-out Dia.
11	28.6	21.4	3.2	21.5	23	44.5	36.5	3.8	40.9
17	36.5	28.6	3.8	29.4					

227273

No. of Ways	Shell Size	Mftrs. List No.	Order Code	1+	50+	100+	250+
<b>Free Receptacle - Accepts Pin Contacts</b>							
9	11	206486-2	593-072 ●				
28	17	206152-1	105-6415 ●				
<b>Fixed Receptacle - Accepts Pin Contacts</b>							
8	11	205841-1	593-096 ●				
9	11	206486-1	593-102 ●				
28	17	205840-3	105-6416 ●				
<b>Free Receptacle - Accepts Socket Contacts</b>							
8	11	206433-2	105-6417 ●				
28	17	206038-2	105-6418 ●				
57	23	206438-2	105-6419 ●				
<b>Fixed Receptacle - Accepts Socket Contacts</b>							
8	11	206433-1	593-151 ●				
28	17	206038-1	105-6420 ●				
57	23	206438-1	105-6421 ●				

## Tools-Series 2



- Extraction and ratchet action crimp tool designed for use with the AMP (CPC) Series 2 range pin and socket contacts

209364

Mftrs. List No.	Order Code	1+	5+	10+
91067-2	593-266 ●			
655044-1	593-278			

## Accessories-Series 1, 2 and 3



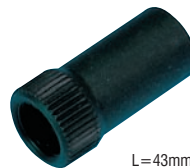
Cable Clamp Sealing Cap Peripheral Seal

- A range of cable clamps, caps and seals for use with series 1, 2 and 3 connectors.
- Suitable for dusty or moisture prone environments
- Protection rating IP65

209126

Order Multiple = 1		Price Each				
Shell Size	Mftrs. List No.	Order Code	1+	50+	100+	250+
<b>Cable Clamps - Standard Size</b>						
11	182658-1	593-280 ●				
11	1-206062-6	120-5937 ●				
13	182663-1	121-4155 ●				
13	207008-5	105-5993 ●				
17	182655-1	593-308 ●				
23	206138-8	120-5938 ●				
<b>Cable Clamps - Large Size</b>						
11	206358-5	109-8399 ●				
13	207008-5	105-5993 ●				
17	206322-9	120-5939 ●				
23	206512-5	105-5996 ●				
<b>Sealing Caps (receptacles only)</b>						
11	208800-1	105-6107 ●				
17	208652-1	593-333 ●				
23	208680-2	105-6108 ▲				
<b>Order Multiple = 10</b>						
<b>Peripheral Seals (receptacles only)</b>						
			10+	50+	100+	250+
11	206403-1	593-357 ●				
13	206403-4	593-369 ●				
17	206403-2	593-370 ●				
Shell Size	Mftrs. List No.	Order Code	1+	50+	100+	
<b>Caps to fit Panel and In-Line Housings</b>						
11	208800-1	105-6107 ●				
17	208652-1	593-333 ●				
23	208680-2	105-6108 ▲				

## Adaptor Backshells



L=43mm

- Lightweight, robust
- Used with industrial PG threaded plastic or metal cable glands
- Improves sealing to IP65

Mftrs. List No.	Thread Size	Order Code	Mftrs. List No.	Thread Size	Order Code
T178GA-PG11	PG11	964-580	T238GA-PG16	PG16	964-608
T178GA-PG13	PG13.5	964-591	T238GA-PG21	PG21	964-610

219736

Order Code	1+	10+	100+
964-580 ●			
964-591 ●			
964-608 ●			
964-610 ●			

### IMPROVED BACK ORDER DELIVERY

Receive email updates with the exact status, due date and despatch information of all your back order items [farnell.com](http://farnell.com)

### Cable Plugs - Series 3



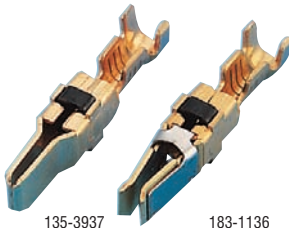
- Power density cable plugs accepting pin or socket contacts

Cable plug for pin contacts    Cable plug for socket contacts

No. of Ways	Shell Size	Mftrs. List No.	Order Code	Price Each			
				1+	100+	250+	500+
<b>Cable Plug - Accepts Pin Contacts</b>							
3	17	206426-1	105-6010				
7	23	206226-1	105-6017				
<b>Cable Plug - Accepts Socket Contacts</b>							
3	17	206037-2	105-6002				
7	23	206136-1	105-6015				

209235

### Contacts - Series 3



- Gold plated crimp contacts for use with the Series 3 range of AMP (CPC) connectors

Mftrs. List No.    66261-2 = 135-3937,  
66740-6 = 183-1136,  
66259-2 = 135-3949,  
66741-6 = 145-8899

209237

Order Multiple = 4	Gold Plated Pins	Order Code	Price Each		
			4+	48+	100+
	16-12 AWG, 1.3-3.4mm <sup>2</sup>	135-3937			
	10-8 AWG, 4.5-8.3mm <sup>2</sup>	135-3949			
	<b>Gold Plated Sockets</b>				
	16-12 AWG, 1.3-3.4mm <sup>2</sup>	183-1136			
	10-8 AWG, 4.5-8.3mm <sup>2</sup>	145-8899			

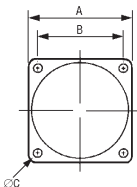
### Receptacles - Series 3



Free Receptacles

Square flange receptacles

Fixed Receptacle Dimensions



- Receptacles accepting either plug or socket contacts
- Available for fixed (bulkhead) or free (in-line) connections

Shell Size	A	B	C	Panel Cut-out Dia.
17	36.5	28.6	3.8	29.4

209236

No. of Ways	Shell Size	Mftrs. List No.	Order Code	Price Each			
				1+	100+	250+	500+
<b>Free Receptacle - Accepts Pin Contacts</b>							
3	17	206207-1	105-5998				
<b>Fixed Receptacle - Accepts Pin Contacts</b>							
3	17	206036-2	135-3810				
7	23	206137-1	105-6012				
<b>Free Receptacle - Accepts Socket Contacts</b>							
3	17	206425-2	105-6008				
<b>Fixed Receptacle - Accepts Socket Contacts</b>							
3	17	206425-1	105-6006				
7	23	206227-1	105-6016				

### Tools - Series 3



Crimp tool

Economy extraction tool

- Extraction on and ratchet crimp tool for use with AMP (CPC)
- Series 3 range of pin and socket contacts

209239

	Mftrs. List No.	Order Code	Price Each
			1+
Crimp Tool (16-12AWG)	90382-2	135-3974	
Economy Extraction Tool	91124-1	135-3950	

### CPC-Sealed

#### Series 5 - Power Contacts



- Use CPC Power Band contacts
- Glass Filled Nylon - UL94V-0 rated

231499

No. of Ways	Type	Mftrs. List No.	Order Code	Price Each		
				1+	50+	100+
<b>Reverse Sex Connectors</b>						
<b>Receptacle Square Flange</b>						
3	Circular	213889-2	105-6099			
<b>Plug Free Hanging</b>						
3	Circular	213905-1	319-5600			
<b>Cable Clamp Kit</b>						
	Std. Max Cab Dia 11.51mm	213902-3	109-8495			
	Lge. Max Cab Dia 17.86mm	213904-3	109-8496			
<b>Replacement Coupling Ring</b>						
		213810-1	319-5648			
<b>Flange Seal</b>						
		81665-2	105-6105			

### CPC Sealed

#### Series 6 - Power and Signal



- Uses x8 Standard CPC 1 contacts and x2 CPC Powerband contacts
- Wire entry seal kits require suitable cable clamp
- IP67 rated
- Glass Filled Nylon - UL94V-0 rated

230660

No. of Ways	Type	Mftrs. List No.	Order Code	Price Each		
				1+	50+	100+
<b>Reverse Sex Connectors</b>						
<b>Receptacle Square Flange</b>						
10	Circular	213893-2	105-6101			
<b>Plug Free Hanging</b>						
10	Circular	213906-1	105-6102			
<b>Wire Entry Seal Kits ( fits receptacle and plug )</b>						
		213900-1	105-6103			
<b>Replacement Coupling Ring</b>						
		213810-1	319-5648			
<b>Flange Seal</b>						
		81665-2	105-6105			
<b>Cable Clamp Kit</b>						
	Std. Max Cab Dia 11.51mm	213902-3	109-8495			
	Lge. Max Cab Dia 17.86mm	213904-3	109-8496			



### TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at [farnell.com](http://farnell.com)

# Circular Multipole - continued

## CPC Powerband Contacts

Series 5 and 6



- Precision formed high current contact
- Test current 45 amps max

231708

Pin	Finish	List No.	Order Code	Price Each		
				1+	50+	100+
12/14AWG	Gold	213845-4	319-5697●			
12/14AWG	Silver	213845-3	319-5703●			
8/10AWG	Gold	213841-4	319-5715●			
8/10AWG	Silver	213841-3	319-5727●			
<b>Socket</b>						
12/14AWG	Gold	213847-4	319-5739●			
12/14AWG	Silver	213847-3	319-5740●			
8/10AWG	Gold	213843-4	319-5752●			
8/10AWG	Silver	213843-3	319-5764●			
<b>Tooling</b>						
Extraction Tool		318813-1	962-9653			

## Metal-Shell CPC

Series 1 - Std Density



- Uses standard CPC1 contacts
- Available in standard and reverse configurations

231526

Material	Thermoplastic UL94V-0	Current Rating	13A
Finish	Zinc Alloy Nickel plated	Working Voltage	250V
Temp Range	-50°C to 125°C		

No. of Ways	Shell Size	Mftrs. List No.	Order Code	Price Each		
				1+	10+	25+
<b>Chassis Plug - Pin Contacts</b>						
7	Circular	208715-1	105-6071●			
16	Circular	208489-1	105-6072●			
24	Circular	208459-1	105-6073●			
37	Circular	208471-1	105-6075●			
<b>Cable Socket - Socket Contacts</b>						
7	Circular	208714-1	105-6077●			
16	Circular	208488-1	105-6078●			
24	Circular	208457-1	105-6079●			
37	Circular	208470-1	105-6080●			
<b>Reverse Sex Connectors</b>						
<b>Chassis Socket - Socket Contacts</b>						
5	Circular	208721-1	319-5260●			
7	Circular	208717-1	105-6081●			
14	Circular	208487-1	105-6082●			
37	Circular	208473-1	105-6083●			
<b>Cable Plug - Pin Contacts</b>						
5	Circular	208720-1	319-5302●			
7	Circular	208716-1	105-6084●			
14	Circular	208486-1	105-6085●			
37	Circular	208472-1	105-6087●			
<b>Order Multiple=1</b>						
				1+		
<b>Crimp Tool</b>						
18-14 AWG, 0.8-2.1mm <sup>2</sup>	91519-1	962-9416				
30-22 AWG, 0.05-0.6mm <sup>2</sup>	91515-1	962-9424				
<b>Insertion Tool</b>						
For all contact	200893-2	962-9661				

The first online technical portal for design engineers  
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## Metal-Shell CPC

Series 1 and 2 Accessories



- For CPC Series 1 and 2 metal connectors
- Cable clamps for cable mounted plugs and sockets
- Dust cap for chassis mounted plugs and sockets

231496

Shell Size	Cable Dia	Mftrs. List No.	Order Code	Price Each		
				1+	100+	250+
<b>Cable Clamps</b>						
14	7.92-14.27mm	208945-5	319-5429●			
22	12.70-19.05mm	208945-7	105-6088●			
28	15.88-23.83mm	208945-8	105-6089●			

## CPC Sealing Accessories



- Sealing caps for receptacles only. Protects exposed contacts of unmated receptacles
- Cable entry seals - Heat shrinkable sealing boots for use with plugs and receptacles
- Jacketed cable seals require large cable clamp
- Rubber boot - Used with jacketed cable to provide splashproof connections

Mftrs. List No.

207445-3=181-2590	208680-2=105-6108	54011-1=105-6109	206304-1=105-6110
208800-1=105-6107			

231498

Sealing Caps	Plastic Straps	Size	Order Code	Price Each			
				1+	50+	100+	250+
<b>Metal Bead Chain</b>							
Series 1,2	11	105-6107●					
Series 2	23	105-6108▲					
<b>Cable Entry Seals</b>							
	17	105-6109●					
Rubber Boot	11	105-6110●					

## Circular Connector, 2 & 4 Pole

DIN 72585



- Meets requirement of DIN 72585
- Single wire sealing system
- Cable outlets suitable for conduit attachment
- IP67 rated

Current rating	25A (1.5mm contacts) 30A (2.5mm contacts)	Wire size range	0.5mm <sup>2</sup> - 2.5mm <sup>2</sup>
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227274

No. of Ways	Mftrs. List No.	Order Code	Price Each			
			1+	100+	250+	500+
<b>Pin Housing</b>						
2	1-967402-3	345-5646●				
4	1-967402-1	345-5660●				
<b>Socket Housing</b>						
2	1-967325-3	345-5671●				
4	1-967325-1	345-5695●				
<b>Order Multiple=5</b>						
Wire Size mm <sup>2</sup>			5+	100+	250+	500+
<b>Pin Contacts</b>						
0.5-1	929967-1	345-5701●				
1-2.5	929968-1	345-5713●				
<b>Socket Contacts</b>						
0.5-1	929974-1	345-5725●				
1-2.5	929975-1	345-5737●				

No. of Ways	Mfrs. List No.	Order Code	1+	100+	250+	500+
<b>Single Wire Seal</b>						
0.5-1	828920-1	345-5749				
1-2.5	828921-1	345-5750				
<b>Accessories</b>						
Dead end plug	828922-1	345-5762				
Mounting ring (pin housing)	965687-1	345-5774				
<b>Order Multiple=1</b>						
<b>Backshell - Straight</b>			1+	100+	250+	500+
With variable						
clamp	965784-1	345-5786				
For corrugated						
conduit NW 8.5	965785-1	345-5798				
<b>Backshell - 90°</b>			1+	100+	250+	500+
With variable						
clamp	965576-1	345-5816				
For corrugated						
conduit NW 10	965783-1	345-5830				
<b>Tooling</b>						
<b>1.5mm Contact</b>			1+			
Extraction tool						
<b>2.5mm Contact</b>						
Extraction tool 1-1579007-8 129-1662						

## Circular Multipole - MIL-C-26482

### MIL-C-26482 Series - Olive

#### Miniature Bayonet Lock Connectors



The CPT series of miniature bayonet lock connectors are designed to conform to the materials and performance requirements of MIL-C 26482 series 1 specifications. Interchangeability and reliability with other connectors conforming to this specification is assured.

Manufacturers List Number	Order Code	Manufacturers List Number	Order Code
CPT02A10-6P.	483-5499	CPT06E10-6PSR.	483-5657
CPT02A10-7P.	483-5505	CPT06E10-7PSR.	483-5669
CPT02A12-8P.	483-5517	CPT06E12-8PSR.	483-5670
CPT02A12-10P.	483-5529	CPT06E12-10PSR.	483-5682
CPT02A14-12P.	483-5530	CPT06E14-12PSR.	483-5694
CPT02A14-19P.	483-5542	CPT06E14-19PSR.	483-5700
CPT02A16-26P.	483-5554	CPT06E16-26PSR.	483-5712
CPT02A18-32P.	483-5566	CPT06E18-32PSR.	483-5724
CPT02A10-6S.	483-5578	CPT06E10-6SSR.	483-5736
CPT02A10-7S.	483-5580	CPT06E10-7SSR.	483-5748
CPT02A12-8S.	483-5591	CPT06E12-8SSR.	483-5750
CPT02A12-10S.	483-5608	CPT06E12-10SSR.	483-5761
CPT02A14-12S.	483-5610	CPT06E14-12SSR.	483-5773
CPT02A14-19S.	483-5621	CPT06E16-26SSR.	483-5797
CPT02A16-26S.	483-5643	CPT06E16-26SSR.	483-5797
CPT02A18-32S.	483-5643	CPT06E18-32SSR.	483-5803

#### Specifications

	Size 16 Contacts	Size 20 Contacts
Current Rating	13.0A	7.5A
Wire Range	16 to 20 AWG	20 to 24 AWG
Voltage Rating AC	600V rms	
Voltage Rating DC	700V	
Test Voltage AC	1500V	
Operating Temperature	-55°C to 125°C	

#### Materials

Housing	Aluminium alloy according to QQ-A-591
Contacts	Copper Alloy, Gold plated over nickel
Inserts	High insulation synthetic rubber in accordance with MIL-R-3065
Insulation Resistance	≥ 5 x 10 <sup>9</sup> MR

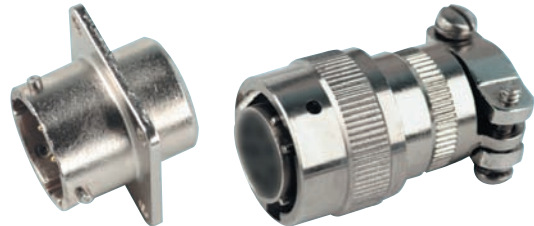
335233/406570

Shell Size	No. Contacts	Contact Size	Order Code	1+	10+	25+	50+	250+
<b>Plug - Chassis</b>								
10	6	20	483-5499					
10	7	20	483-5505					
12	8	20	483-5517					
12	10	20	483-5529					

Shell Size	No. Contacts	Contact Size	Order Code	1+	10+	25+	50+	250+
<b>Plug - Chassis</b>								
14	8 (+4)	20 (16)	483-5530					
14	19	20	483-5542					
16	26	20	483-5554					
18	32	20	483-5566					
<b>Socket - Chassis</b>								
10	6	20	483-5578					
10	7	20	483-5580					
12	8	20	483-5591					
12	10	20	483-5608					
14	8 (+4)	20 (16)	483-5610					
14	19	20	483-5621					
16	26	20	483-5633					
18	32	20	483-5645					
<b>Plug, Cable</b>								
10	6	20	483-5657					
10	7	20	483-5669					
12	8	20	483-5670					
12	10	20	483-5682					
14	8 (+4)	20 (16)	483-5694					
14	19	20	483-5700					
16	26	20	483-5712					
18	32	20	483-5724					
<b>Socket, Cable</b>								
10	6	20	483-5736					
10	7	20	483-5748					
12	8	20	483-5750					
12	10	20	483-5761					
14	8 (+4)	20 (16)	483-5773					
14	19	20	483-5785					
16	26	20	483-5797					
18	32	20	483-5803					

### MIL-C-26482 Series - Nickel

#### Miniature Bayonet Lock Connectors



The CPT series of Nickel Plated, miniature bayonet lock connectors are designed to conform to the materials and performance requirements of MIL-C 26482 series 1 specifications. Interchangeability and reliability with other connectors conforming to this specification is assured.

Mfrs. List No.	Order Code	Mfrs. List No.	Order Code
CPT02A10-6PN	119-0471	CPT06E12-10PSRN	119-0473
CPT02A10-6SN	483-6789	CPT06E10-6SSRN	119-0474
CPT02A12-10SN	119-0472	CPT06E10-6PSRN	483-6807

#### Specifications

Contacts	Size 20
Current Rating	7.5A
Wire Range	20 to 24 AWG
Voltage Rating AC	600V rms
Voltage Rating DC	700V
Test Voltage AC	1500V
Operating Temperature	-55°C to 125°C

#### Materials

Housing	Aluminium alloy according to QQ-A-591
Contacts	Copper Alloy, Gold plated over nickel
Inserts	High insulation synthetic rubber in accordance with MIL-R-3065
Insulation Resistance	≥ 5 x 10 <sup>9</sup> MR

335234/406571

Shell Size	No. Contacts	Contact Size	Order Code	1+	10+	25+	50+	250+
<b>Plug - Chassis</b>								
10	6	20	119-0471					
<b>Socket - Chassis</b>								
10	6	20	483-6789					
12	10	20	119-0472					
<b>Plug - Cable</b>								
10	6	20	483-6807					
12	10	20	119-0473					
<b>Socket - Cable</b>								
10	6	20	119-0474					

# Circular Multipole - MIL-C-26482 - continued

## 451 Subminiature Connectors BNAE NF L54125 Designation

Amphenol

NEW



627094

Shell No.	Mftrs	Price Each					
Size	Contacts	List No.	Order Code	1+	10+	25+	50+
<b>Square Flange Receptacles - Solder Terminals</b>							
8	4 - Pin	451 02E 84P 50	186-6272	▲			
8	4 - Socket	451 02E 84S 50	186-6273	▲			
10	6 - Pin	451 02E 106P 50	186-6274	▲			
10	6 - Socket	451 02E 106S 50	186-6275	▲			
12	10 - Pin	451 02E 1210P 50	186-6276	▲			
12	10 - Socket	451 02E 1210S 50	186-6277	▲			
14	19 - Pin	451 02E 1419P 50	186-6279	▲			
14	19 - Socket	451 02E 1419S 50	186-6281	▲			
16	26 - Pin	451 02E 1626P 50	186-6282	▲			
16	26 - Socket	451 02E 1626S 50	186-6283	▲			

<b>Jam Nut Receptacles - Solder Terminals</b>							
8	3 - Pin	451 07A 83AP 50	186-6284	▲			
8	3 - Socket	451 07A 83AS 50	186-6285	▲			
10	6 - Pin	451 07A 106P 50	186-6286	▲			
10	6 - Socket	451 07A 106S 50	186-6287	▲			
12	10 - Pin	451 07A 1210P 50	186-6288	▲			
12	10 - Socket	451 07A 1210S 50	186-6289	▲			

<b>In-Line Plugs - Solder Terminals</b>							
8	4 - Pin	451 06EC 84P 50	186-6290	▲			
8	4 - Socket	451 06EC 84S 50	186-6292	▲			
8	3 - Pin	451 06EC 83AP 50	186-6293	▲			
8	3 - Socket	451 06EC 83AS 50	186-6294	▲			
10	6 - Pin	451 06EC 106P 50	186-6295	▲			
10	6 - Socket	451 06EC 106S 50	186-6296	▲			
12	10 - Pin	451 06EC 1210P 50	186-6297	▲			
12	10 - Socket	451 06EC 1210S 50	186-6298	▲			
14	19 - Pin	451 06EC 1419P 50	186-6299	▲			
14	19 - Socket	451 06EC 1419S 50	186-6300	▲			
16	26 - Pin	451 06EC 1626P 50	186-6301	▲			
16	26 - Socket	451 06EC 1626S 50	186-6302	▲			

<b>In-Line Plugs - Crimp Terminals</b>							
10	6 - Pin	451 06RC 106P 50	186-6303	▲			
10	6 - Socket	451 06RC 106S 50	186-6304	▲			
12	10 - Pin	451 06RC 1210P 50	186-6305	▲			
12	10 - Socket	451 06RC 1210S 50	186-6306	▲			
14	19 - Pin	451 06RC 1419P 50	186-6307	▲			
14	19 - Socket	451 06RC 1419S 50	186-6309	▲			
16	26 - Pin	451 06RC 1626P 50	186-6311	▲			
16	26 - Socket	451 06RC 1626S 50	186-6312	▲			

## 451 Subminiature Connectors VG 95328 Designation

Amphenol

NEW

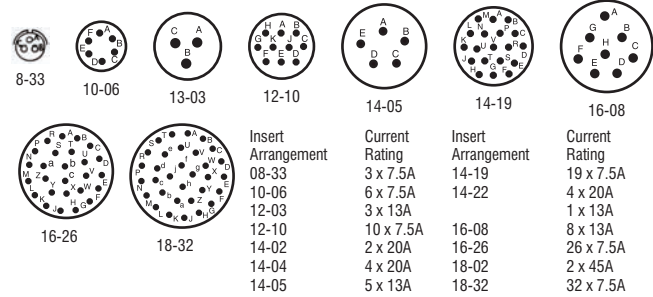


627094

Shell No.	Mftrs	Price Each					
Size	Contacts	List No.	Order Code	1+	10+	25+	50+
<b>Square Flange Receptacles - Crimp Terminals</b>							
10	6 - Pin	VG95328C 10-06 PN	186-6313	▲			
10	6 - Socket	VG95328C 10-06 SN	186-6314	▲			
12	10 - Pin	VG95328C 12-10 PN	186-6315	▲			
12	10 - Socket	VG95328C 12-10 SN	186-6316	▲			
14	19 - Pin	VG95328C 14-19 PN	186-6317	▲			
14	19 - Socket	VG95328C 14-19 SN	186-6318	▲			
<b>In-Line Plugs - Crimp Terminals</b>							
10	6 - Pin	VG95328M 10-06 PN	186-6319	▲			
10	6 - Socket	VG95328M 10-06 SN	186-6320	▲			
12	10 - Pin	VG95328M 12-10 PN	186-6322	▲			
12	10 - Socket	VG95328M 12-10 SN	186-6323	▲			
14	19 - Pin	VG95328M 14-19 PN	186-6324	▲			
14	19 - Socket	VG95328M 14-19 SN	186-6325	▲			

## 62GB Miniature Bayonet Lock Connectors MIL-C-26482

Amphenol



A range of miniature bayonet lock connectors designed to meet the requirements of BS9522 F0017 DEF STAN 59-35 Pattern 105 and MIL-C-26482. The connectors are machined from solid aluminium giving maximum strength. Shells are plated in environmentally friendly Olive Drab Zinc Cobalt Finish. Termination is solder.

### Current Rating

Maximum current per individual contact in isolation at a maximum ambient temperature of 85°C

Electrical	Mechanical
Working Voltage DC	700V
Working Voltage AC	500V RMS
Proof Voltage DC or AC Peak	2100V
Contact Resistance	5mΩ
Insulation Resistance	5000MΩ
Body Material	Aluminium Alloy
Body Plating	Olive Drab Zinc Chromate
Contact Material	Brass Gold plated
Temp Range	-55°C to 125°C

233619

Shell No.	Mftrs	Price Each				
Size	Contacts	List No.	Order Code	1+	10+	50+

<b>Panel Mount Receptacle - Pin Contacts</b>							
08-33	3	20	62GB-12E08-33PN	391-1238	▲		
10-06	6	20	62GB-12E10-06PN	391-1251	▲		
12-03	3	16	62GB-12E12-03PN	391-1275	▲		
12-10	10	20	62GB-12E12-10PN	391-1299	▲		
14-05	5	16	62GB-12E14-05PN	391-1354	▲		
14-19	19	14	62GB-12E14-19PN	391-1378	▲		
16-08	8	16	62GB-12E16-08PN	391-1410	▲		
16-26	26	20	62GB-12E16-26PN	391-1433	▲		
18-32	32	20	62GB-12E18-32PN	391-1470	▲		

<b>Panel Mount Receptacle Socket Contacts</b>							
08-33	3	20	62GB-12E08-33SN	391-1240	▲		
10-06	6	20	62GB-12E10-06SN	391-1263	▲		
12-03	3	16	62GB-12E12-03SN	391-1287	▲		
12-10	10	20	62GB-12E12-10SN	391-1305	▲		
14-05	5	16	62GB-12E14-05SN	391-1366	▲		
14-19	19	20	62GB-12E14-19SN	391-1380	▲		
16-8	8	16	62GB-12E16-08SN	391-1421	▲		
16-26	26	20	62GB-12E16-26SN	391-1445	▲		
18-32	32	20	62GB-12E18-32SN	391-1482	▲		

<b>Basic Plug - Pin Contacts</b>							
08-33	3	20	62GB-56T08-33PN	391-1494	▲		
10-06	6	20	62GB-56T10-06PN	391-1512	▲		
12-03	3	16	62GB-56T12-03PN	391-1536	▲		
12-10	10	20	62GB-56T12-10PN	391-1550	▲		
14-05	5	16	62GB-56T14-05PN	391-1573	▲		
14-19	19	20	62GB-56T14-19PN	391-1597	▲		
16-08	8	16	62GB-56T16-08PN	391-1615	▲		
16-26	26	20	62GB-56T16-26PN	391-1639	▲		
18-32	32	20	62GB-56T18-32PN	391-1652	▲		

<b>Basic Plug - Socket Contacts</b>							
08-33	3	20	62GB-56T08-33SN	391-1500	▲		
10-06	6	20	62GB-56T10-06SN	391-1524	▲		
12-03	3	16	62GB-56T12-03SN	391-1548	▲		
12-10	10	20	62GB-56T12-10SN	391-1561	▲		
14-05	5	16	62GB-56T14-05SN	391-1585	▲		
14-19	19	20	62GB-56T14-19SN	391-1603	▲		
16-08	8	16	62GB-56T16-08SN	391-1627	▲		
16-26	26	20	62GB-56T16-26SN	391-1640	▲		
18-32	32	20	62GB-56T18-32SN	391-1664	▲		

### 62GB Miniature Bayonet Lock Connectors

**Amphenol**

RoHS Compliant Shell Plating



- **RoHS** compliant version of Amphenol's 62GB miniature bayonet lock connectors
- Designed to meet the requirements of BS9522 F0017 DEF STAN 59-35 Pattern 105 and MIL-C-26482.C
- Connectors are machined from solid aluminium giving maximum strength
- Shells have **RoHS** compliant electroless nickel plating
- Solder Termination

**NEW**

**Electrical**

Working Voltage DC  
Working Voltage AC  
Proof Voltage DC or AC Peak  
Contact Resistance  
Insulation Resistance

700V  
500V RMS  
2100V  
5mΩ  
5000MΩ

**Mechanical**

Body Material Aluminium Alloy  
Body Plating Olive Drab Zinc Chromate  
Contact Material Brass Gold plated  
Temp Range -55°C to 125°C

618689

Insert Arrangement	No. of Contacts	Mftrs. List No.	Order Code	Price Each			
				1+	10+	25+	50+

**Panel Mount Receptacle - Pin Contacts**

8-33	3	62GB-12E08-33PN(416)	181-6245				
10-6	6	62GB-12E10-06PN(416)	181-6246				
10-7	7	62GB-12E10-07PN(416)	181-6247				
12-10	10	62GB-12E12-10PN(416)	181-6248				
14-12	12	62GB-12E14-12PN(416)	181-6249				
16-26	26	62GB-12E16-26PN(416)	181-6250				
18-32	32	62GB-12E18-32PN(416)	181-6252				
20-41	41	62GB-12E20-41PN(416)	181-6253				

**Panel Mount Receptacle Socket Contacts**

8-33	3	62GB-12E08-33SN(416)	181-6254				
10-6	6	62GB-12E10-06SN(416)	181-6255				
10-7	7	62GB-12E10-07SN(416)	181-6256				
12-10	10	62GB-12E12-10SN(416)	181-6257				
14-12	12	62GB-12E14-12SN(416)	181-6258				
16-26	26	62GB-12E16-26SN(416)	181-6259				
18-32	32	62GB-12E18-32SN(416)	181-6260				
20-41	41	62GB-12E20-41SN(416)	181-6261				

**Plug - Pin Contacts**

8-33	3	62GB-56T08-33PN(416)	181-6262				
10-6	6	62GB-56T10-06PN(416)	181-6264				
10-7	7	62GB-56T10-07PN(416)	181-6265				
12-10	10	62GB-56T12-10PN(416)	181-6266				
14-12	12	62GB-56T14-12PN(416)	181-6267				
16-26	26	62GB-56T16-26PN(416)	181-6268				
18-32	32	62GB-56T18-32PN(416)	181-6269				
20-41	41	62GB-56T20-41PN(416)	181-6270				

**Plug - Socket Contacts**

8-33	3	62GB-56T08-33SN(416)	181-6271				
10-6	6	62GB-56T10-06SN(416)	181-6272				
10-7	7	62GB-56T10-07SN(416)	181-6273				
12-10	10	62GB-56T12-10SN(416)	181-6274				
14-12	12	62GB-56T14-12SN(416)	181-6276				
16-26	26	62GB-56T16-26SN(416)	181-6277				
18-32	32	62GB-56T18-32SN(416)	181-6278				
20-41	41	62GB-56T20-41SN(416)	181-6279				

Shell Size	Mftrs. List No.	Order Code	1+	10+	25+	50+
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**Dust Caps - Plugs**

8	62GB-810-08(416)	181-6280				
10	62GB-810-10(416)	181-6281				
12	62GB-810-12(416)	181-6282				
14	62GB-810-14(416)	181-6283				
16	62GB-810-16(416)	181-6284				
18	62GB-810-18(416)	181-6285				
20	62GB-810-20(416)	181-6286				

**Dust Caps - Receptacles**

8	62GB-1070-08(416)	181-6288				
10	62GB-1070-10(416)	181-6289				
12	62GB-1070-12(416)	181-6290				
14	62GB-1070-14(416)	181-6291				
16	62GB-1070-16(416)	181-6292				
18	62GB-1070-18(416)	181-6293				
20	62GB-1070-20(416)	181-6294				

### 62GB High Power

**Amphenol**



Spin coupling backshells for use with heatshrink boots and braid should be used with these connectors.

Insert Arrangement	Current Rating	Insert Arrangement	Current Rating	Price Each
14-02 14-04	2 x 20A 4 x 20A	18-02 14-22	2 x 45A 4 x 20A + 1 x 13A	
Mftrs. List No.		Order Code		
1+				
10+				
50+				
100+				
500+				

233733

**Panel Mount Receptacle - Pin Contacts - High Power**

14-0262GB-12E14-02PN	391-1317				
14-0462GB-12E14-04PN	391-1330				
18-0262GB-12E18-02PN	391-1457				

**Panel Mount Receptacle Socket Contacts - High Power**

14-0262GB-12E14-02SN	391-1329				
14-0462GB-12E14-04SN	391-1342				
18-0262GB-12E18-02SN	391-1469				

**Basic Plug - Pin Contacts - High Power**

14-0262GB-56TG14-02PN(044)	391-1676				
14-0462GB-56TG14-04PN(044)	391-1690				
18-0262GB-56TG18-02PN(044)	391-1731				

**Basic Plug - Socket Contacts - High Power**

14-0262GB-56TG14-02SN(044)	391-1688				
14-0462GB-56TG14-04SN(044)	391-1706				
18-0262GB-56TG18-02SN(044)	391-1743				

### 62GB Cable Clamps

**Amphenol**

- Straight outlet grommet nut with strain relief
- For cable mounted plugs and sockets

233735

Shell Size	Mftrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+

**Plug Strain Relief**

8-33	62GB-585-08-33P	391-1755				
10-06	62GB-585-10-06P	391-1779				
12-03	62GB-585-12-03P	391-1792				
12-10	62GB-585-12-10P	391-1810				
14-05	62GB-585-14-05P	391-1834				
14-19	62GB-585-14-19P	391-1858				
16-08	62GB-585-16-08P	391-1913				
16-26	62GB-585-16-26P	391-1871				
18-32	62GB-585-18-32P	391-1895				

**Socket Strain Relief**

8-33	62GB-585-08-33S	391-1767				
10-06	62GB-585-10-06S	391-1780				
12-03	62GB-585-12-03S	391-1809				
12-10	62GB-585-12-10S	391-1822				
14-05	62GB-585-14-05S	391-1846				
14-19	62GB-585-14-19S	391-1860				
16-26	62GB-585-16-26S	391-1883				
18-32	62GB-585-18-32S	391-1901				

### 62GB Dust Caps

**Amphenol**



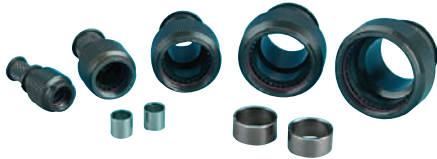
- For chassis mounted plugs and sockets

233736

Size	Mftrs. List No.	Order Code	Price Each				
			1+	10+	50+	100+	500+
8	62GB-812-08	391-1937					
10	62GB-812-10	391-1949					
12	62GB-812-12	391-1950					
14	62GB-812-14	391-1962					
16	62GB-812-16	391-1974					
18	62GB-812-18	391-1986					

# Circular Multipole - MIL-C-26482 - continued

## Backshells



Dual purpose spin coupling backshells may be used in conjunction with heatshrink boots and Zeta Lock clock springs to terminate braided cable jacket. The threaded coupling end rotates separately from the body so that cable is not twisted upon removal of backshell from the connector body. The mating interface of these backshells feature anti-rotation teeth and an 'O' ring seal.

- Type 1 fits 62GB, AB05 connectors
- Type 2 fits commercial 5015

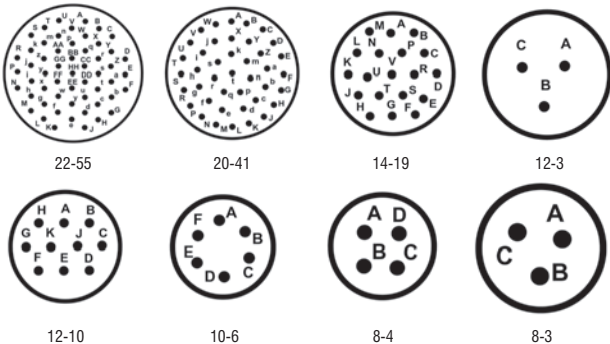
Spring Size	Size	Type	Order Code	1+	10+	50+	100+
<b>Type 1 62GB AB05</b>							
1	08	AIA-5001-08	391-2097▲				
1	10	AIA-5001-10	391-2103▲				
1	12	AIA-5001-12	391-2115▲				
2	14	AIA-5001-14	391-2127▲				
2	16	AIA-5001-16	391-2139▲				
3	18	AIA-5001-18	391-2140▲				

<b>Zeta Lock Spring Braid Termination HE</b>							
1	2	3	Order Code	1+	10+	50+	100+
1	100	HE 100	391-2218▲				
2	200	HE 200	391-2220▲				
3	300	HE 300	391-2231▲				

## MIL-C-26482 Series 1 Miniature Sealed Connectors



MIL-C-26482 connectors offer high density contact arrangements in a miniature circular shell. Crimp and solder styles are available which are intermateable with all MIL-C-26482 style connectors.



MS3126F22-55S=390-4271	MS3122E12-10P=390-4489	MS3112E12-3S=390-4775
MS3126F20-41S=390-4295	MS3116F8-4S=390-4519	MS3112E12-10S=390-4799
MS3126F14-19S=390-4313	MS3116F8-3S=390-4532	MS3112E10-6S=390-4817
MS3126F12-3S=390-4337	MS3116F14-19S=390-4593	MS3112E8-4P=390-4684
MS3126F12-10S=390-4350	MS3116F12-3S=390-4611	MS3112E8-3P=390-4702
MS3126F10-6S=390-4374	MS3116F12-10S=390-4635	MS3112E12-3P=390-4787
MS3126F22-55P=390-4283	MS3116F10-6S=390-4659	MS3112E12-10P=390-4805
MS3126F20-41P=390-4301	MS3116F8-4P=390-4520	MS3112E10-6P=390-4829
MS3126F14-19P=390-4325	MS3116F8-3P=390-4544	AF8=890-376
MS3126F12-3P=390-4349	MS3116F22-55P=390-4568	MS24256A16=390-4842
MS3126F12-10P=390-4362	MS3116F14-19P=390-4600	MS24256A20=390-4854
MS3126F10-6P=390-4386	MS3116F12-10P=390-4647	MS24256R16=390-4866
MS3122E20-41S=390-4416	MS3116F12-10P=390-4647	DRK20.=390-4878
MS3122E14-19S=390-4430	MS3116F10-6P=390-4660	225-1012-000=119-0517
MS3122E12-10S=390-4477	MS3112E8-4S=390-4672	430-8560-004=119-0518
MS3122E10-6S=390-4490	MS3112E8-3S=390-4696	031-9095-003=119-0521
MS3122E14-19P=390-4441	MS3112E22-55S=390-4714	430-8560-006=119-0522
MS3122E12-3P=390-4465	MS3112E14-19S=390-4751	M39029/32-259=119-0523

Specification	Size 16 Contacts	Size 20 Contacts
Current Rating	22A	7.5A
Wire Range	16 to 20 AWG	20 to 24 AWG
Voltage Rating AC	600V rms	
Voltage Rating DC	850V	
Mating Cycles	500	
Operating Temperature	-55°C to 125°C	

Specification	Size 16 Contacts	Size 20 Contacts
Materials		
Housing	Aluminium Alloy Olive Drab Chromate finish	
Contacts	Copper Alloy, Gold MIL-G-45204 plated	
Insulator	Neoprene	
Approvals	MIL-C-26482 VG 95 328	

Shell Size	No. Contacts	Contact Size	Order Code	Price Each
				1+ 10+ 25+
<b>Straight Plug - Socket Contacts - Crimp</b>				
12	3	16	390-4337▲	
10	6	20	390-4374▲	
12	10	20	390-4350▲	
14	19	20	390-4313▲	
20	41	20	390-4295▲	
22	55	20	390-4271▲	
<b>Straight Plug - Pin Contacts - Crimp</b>				
12	3	16	390-4349▲	
10	6	20	390-4386▲	
12	10	20	390-4362▲	
14	19	20	390-4325▲	
20	41	20	390-4301▲	
22	55	20	390-4283▲	
<b>Panel Mount Receptacle - Socket Contacts - Crimp</b>				
10	6	20	390-4490▲	
12	10	20	390-4477▲	
14	19	20	390-4430▲	
20	41	20	390-4416▲	
<b>Panel Mount Receptacle - Pin Contacts - Crimp</b>				
12	3	16	390-4465▲	
12	10	20	390-4489▲	
14	19	20	390-4441▲	
<b>Straight Plug - Socket Contacts - Solder</b>				
12	3	16	390-4611▲	
8	3	20	390-4532▲	
8	4	20	390-4519▲	
10	6	20	390-4659▲	
12	10	20	390-4635▲	
14	19	20	390-4593▲	
<b>Straight Plug - Pin Contacts - Solder</b>				
12	3	16	390-4623▲	
8	3	20	390-4544▲	
8	4	20	390-4520▲	
10	6	20	390-4660▲	
12	10	20	390-4647▲	
14	19	20	390-4600▲	
22	55	20	390-4568▲	
<b>Panel Mount Receptacle - Socket Contacts - Solder</b>				
12	3	16	390-4775▲	
8	3	20	390-4696▲	
8	4	20	390-4672▲	
10	6	20	390-4817▲	
12	10	20	390-4799▲	
14	19	20	390-4751▲	
22	55	20	390-4714▲	
<b>Panel Mount Receptacle - Pin Contacts - Solder</b>				
12	3	16	390-4787▲	
8	3	20	390-4702▲	
8	4	20	390-4684▲	
10	6	20	390-4829▲	
12	10	20	390-4805▲	
<b>Tools</b>				<b>Price Each</b>
Crimp Tool				890-376
Insertion Tool Size 16				390-4842
Insertion Tool Size 20				390-4854
Extraction Tool Size 16				390-4866
Extraction Tool Size 20				390-4878
<b>Wire Hole Fillers</b>				<b>Price Each</b>
				1+ 50+ 100+
Size 20			119-0517●	
<b>Crimp Contacts</b>				<b>Price Each</b>
				1+ 5+ 10+
Size 16 Pin			119-0518●	
Size 16 Socket			119-0521●	
Size 20 Pin			119-0522●	
Size 20 Socket			213-8312●	



## Miniature Sealed - Bayonet Coupling

### Pattern 105

Free plug  
107-899



Square flange panel socket  
107-922

A range of miniature multipole connectors conforming to MIL-C26482 and manufactured to BS9522-F0017 and DEF STAN 59-35 Pattern 105.

**Note:**  
Free plugs only mate with panel sockets.  
Free sockets only mate with panel plugs.

The aluminium housings are cadmium plated with an olive colour chromate finish, giving a high resistance to corrosion. A dynamic sealing ring and grommet provide protection against water ingress to IP67 on the free plug.  
Gold plated brass contacts make the connectors ideal for signal applications and ensure 500 mating cycles minimum. Positive coupling is indicated by an audible click and alignment of the three bayonet pins. Five key ways on the receptacle also ensure correct polarisation.

Shell Size / Mftrs.		Price Each			
No. of Ways List No.	Order Code	1+	10+	25+	50+

#### Knurled Coupling Nut with Strain Relief Clamp

##### Free Plug - Pin Contacts

10/6	AB05 6027 10 06 PNOO	107-894▲
10/7	AB05 6027 10 07 PNOO	107-895▲
12/8	AB05 6027 12 08 PNOO	107-896▲
12/10	AB05 6027 12 10 PNOO	107-897▲
14/12	AB05 6027 14 12 PNOO	107-898▲
14/19	AB05 6027 14 19 PNOO	107-899▲
16/26	AB05 6027 16 26 PNOO	107-900▲
18/32	AB05 6027 18 32 PNOO	107-901▲

##### Free Plug - Socket Contacts

10/6	AB05 6027 10 06 SNOO	107-902▲
10/7	AB05 6027 10 07 SNOO	107-903▲
12/8	AB05 6027 12 08 SNOO	107-904▲
12/10	AB05 6027 12 10 SNOO	107-905▲
14/12	AB05 6027 14 12 SNOO	107-906▲
14/19	AB05 6027 14 19 SNOO	107-907▲
16/26	AB05 6027 16 26 SNOO	107-908▲
18/32	AB05 6027 18 32 SNOO	107-909▲

#### Knurled Coupling Nut and Spring Grounding Fingers

##### Free Plug - Pin Contacts

8/3	AB0561000833PN00	NEW 186-7677▲
10/6	AB0561001006PN00	NEW 186-7679▲
10/7	AB0561001007PN00	NEW 186-7681▲
12/3	AB0561001203PN00	NEW 186-7683▲
12/8	AB0561001208PN00	NEW 186-7686▲
12/10	AB0561001210PN00	NEW 186-7688▲
14/5	AB0561001405PN00	NEW 186-7690▲
14/19	AB0561001419PN00	NEW 186-7692▲
16/8	AB0561001608PN00	NEW 186-7694▲
16/26	AB0561001626PN00	NEW 186-7697▲
18/32	AB0561001832PN00	NEW 186-7699▲
20/41	AB0561002041PN00	NEW 186-7701▲

##### Free Plug - Socket Contacts

8/3	AB0561000833SN00	NEW 186-7678▲
10/6	AB0561001006SN00	NEW 186-7680▲
10/7	AB0561001007SN00	NEW 186-7682▲
12/3	AB0561001203SN00	NEW 186-7685▲
12/8	AB0561001208SN00	NEW 186-7687▲
12/10	AB0561001210SN00	NEW 186-7689▲
14/5	AB0561001405SN00	NEW 186-7691▲
14/19	AB0561001419SN00	NEW 186-7693▲
16/8	AB0561001608SN00	NEW 186-7695▲
16/26	AB0561001626SN00	NEW 186-7698▲
18/32	AB0561001832SN00	NEW 186-7700▲
20/41	AB0561002041SN00	NEW 186-7703▲

#### Coarse Ribbed Coupling Nut with Grounding Fingers

##### Free Plug - Pin Contacts

14/2	AB0563001402PN00	NEW 186-7704▲
14/4	AB0563001404PN00	NEW 186-7706▲

##### Free Plug - Socket Contacts

14/2	AB0563001402SN00	NEW 186-7705▲
14/4	AB0563001404SN00	NEW 186-7707▲

Shell Size / Mftrs.		Price Each			
No. of Ways List No.	Order Code	1+	10+	25+	50+

#### Square Flange Panel Plug - Pin Contacts

8/3	AB0521000833PN00P	NEW 186-7662▲
10/6	AB05 2100 10 06 PNOOP	107-910▲
10/7	AB05 2100 10 07 PNOOP	107-911▲
12/3	AB0521001203PN00P	NEW 186-7664▲
12/8	AB05 2100 12 08 PNOOP	107-912▲
12/10	AB05 2100 12 10 PNOOP	107-913▲

Shell Size / Mftrs.		Price Each			
No. of Ways List No.	Order Code	1+	10+	25+	50+

#### Square Flange Panel Plug - Pin Contacts

14/2	AB0521001402PN00P	NEW 186-7666▲
14/4	AB0521001404PN00P	NEW 186-7668▲
14/5	AB0521001405PN00P	NEW 186-7670▲
14/12	AB05 2100 14 12 PNOOP	107-914▲
14/19	AB05 2100 14 19 PNOOP	107-915▲
16/8	AB0521001608PN00P	NEW 186-7673▲
16/26	AB05 2100 16 26 PNOOP	107-916▲
20/41	AB0521002041PN00P	NEW 186-7675▲

#### Square Flange Panel Socket - Socket Contacts

8/3	AB0521000833SN00P	NEW 186-7663▲
10/6	AB05 2100 10 06 SNOOP	107-918▲
10/7	AB05 2100 10 07 SNOOP	107-919▲
12/3	AB0521001203SN00P	NEW 186-7665▲
12/8	AB05 2100 12 08 SNOOP	107-920▲
12/10	AB05 2100 12 10 SNOOP	107-921▲
14/2	AB0521001402SN00P	NEW 186-7667▲
14/4	AB0521001404SN00P	NEW 186-7669▲
14/5	AB0521001405SN00P	NEW 186-7671▲
14/12	AB05 2100 14 12 SNOOP	107-922▲
14/19	AB05 2100 14 19 SNOOP	107-923▲
16/8	AB0521001608SN00P	NEW 186-7674▲
16/26	AB05 2100 16 26 SNOOP	107-924▲
18/32	AB05 2100 18 32 SNOOP	107-925▲
20/41	AB0521002041SN00P	NEW 186-7676▲

#### Accessories - Strain Relief Clamp

Size 8-33	AB050027083300P	NEW 186-7708▲
Size 10-6	AB050027100600P	NEW 186-7709▲
Size 10-7	AB050027100700P	NEW 186-7710▲
Size 12-10	AB050027121000P	NEW 186-7711▲
Size 14-19	AB050027141900P	NEW 186-7712▲

#### Accessories - Sealing Gland - No Grommet Necessary

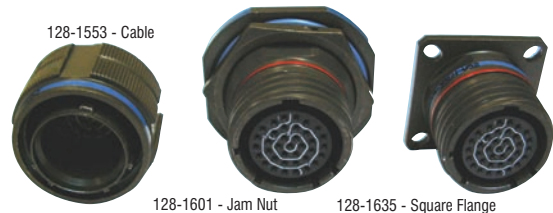
8	AB0500550800	NEW 186-7713▲
10	AB0500551000	NEW 186-7715▲
12	AB0500551200	NEW 186-7716▲
14	AB0500551400	NEW 186-7717▲

## Circular Multipole - MIL-C-38999

### D38999 Series III

#### Threaded Olive Drab Connectors

Amphenol



These high quality thread-locking connectors are designed to meet the most stringent requirements of the military and aerospace industries, meeting Mil-DTL-38999, BS9520 G0003 and JN1034 specifications. The connector housings are machined from solid aluminium alloy bar to ensure maximum strength, and an olive drab zinc cobalt plate finish that meets the requirements of the EC Directive for cadmium free products. Products are supplied with crimp contacts, and are available in normal or A keyway orientation, with options of square flange, jam nut or straight cable mounting.

Current Rating	5A	7.5A
Contact Size	22D	20
Working Voltage	500Vdc or ac peak	850Vdc or ac peak
Voltage Proof	1300Vdc or ac peak	1800Vdc or ac peak
Contact Resistance	5mohm max	5mohm max
Insulation Resistance	5000Mohm min	5000Mohm min
Shell Material	Aluminium Alloy	Aluminium Alloy
Shell Finish	Olive Drab Olive Drab Chromate	Olive Drab Olive Drab Chromate
Contact Material	Copper	Copper
Wire Conductor Size	22AWG to 28AWG	20AWG to 24AWG
Temperature Range	-55°C to +175°C	-55°C to +175°C

Note: Keying Orientation N to N and A to A

Mftrs. List No. TVzzRW-yy-xxw(W52)

Where zz=06-free or 07-jam nut or P00-chassis, yy=shell size, xx=no of ways, w=P-plug or S-socket, v=keyway

FOR 38999 RJ FIELD CONNECTORS SEE SIGNAL & DATA SECTION

Shell No. of Current		Price Each						
Size	Ways	Rating	Keyway	Order Code	1+	10+	25+	50+

#### Free Plug

9	6	5A	Keyway N	128-1544▲
9	3	7.5A	Keyway N	128-1545▲
11	13	5A	Keyway N	128-1546▲
13	22	5A	Keyway N	128-1551▲
13	10	7.5A	Keyway N	128-1552▲

# Circular Multipole - MIL-C-38999 - continued

## D38999 Series III - continued

### Threaded Olive Drab Connectors - continued

Shell Size	No. of Ways	Current Rating	Keyway	Order Code	Price Each			
					1+	10+	25+	50+
<b>Free Plug</b>								
15	37	5A	Keyway N	128-1553▲				
11	13	5A	Keyway A	128-1556▲				
13	22	5A	Keyway A	128-1558▲				
<b>Free Socket</b>								
9	6	5A	Keyway N	128-1561▲				
9	3	7.5A	Keyway N	128-1564▲				
11	13	5A	Keyway N	128-1565▲				
11	6	7.5A	Keyway N	128-1566▲				
13	22	5A	Keyway N	128-1568▲				
15	37	5A	Keyway N	128-1570▲				
13	22	5A	Keyway A	128-1576▲				
15	37	5A	Keyway A	128-1578▲				
<b>Jam Nut Plug</b>								
11	13	5A	Keyway N	128-1581▲				
11	6	7.5A	Keyway N	128-1582▲				
<b>Jam Nut Socket</b>								
11	13	5A	Keyway N	128-1596▲				
13	22	5A	Keyway N	128-1599▲				
<b>Chassis Plug</b>								
9	6	5A	Keyway N	128-1611▲				
11	13	5A	Keyway N	128-1613▲				
13	22	5A	Keyway N	128-1615▲				
15	37	5A	Keyway N	128-1618▲				
<b>Chassis Socket</b>								
9	3	7.5A	Keyway N	128-1627▲				
11	13	5A	Keyway N	128-1629▲				
13	22	5A	Keyway N	128-1632▲				
13	10	7.5A	Keyway N	128-1633▲				

Shell Size	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Straight</b>						
19	BK4SRL18129XY	175-1742●				
21	BK4SRL20139XY	175-1743●				
25	BK4SRL24169XY	175-1745●				
<b>Right Angle</b>						
11	BK4ARL10059XY	175-1747●				
15	BK4ARL14099XY	175-1751●				
17	BK4ARL16109XY	175-1752●				
21	BK4ARL20139XY	175-1754●				

## D38999 Series 3

### Dust Caps

- Aluminium Alloy with Zinc Cobalt over Nickel plating
- Terylene Cord
- Olive Drab Finish

Mfrs. List No. 418-6033-zzy0501-04  
Where zz=shell size, y=P-plug or R-socket

Shell Size	Order Code	Price Each			
		1+	10+	25+	50+
<b>Plug Dust Cap</b>					
9	128-1645▲				
13	128-1647▲				
<b>Socket Dust Cap</b>					
9	128-1650▲				
11	128-1651▲				
13	128-1652▲				
15	128-1654▲				

## D38999 Series 3

### Backshells

- Aluminium Alloy with Zinc Cobalt plating
- Green Chromate Passivation
- Zetlock Termination with heatshrink boot groove

Mfrs. List No. AIA-5003-zz-00-yy-10-AA-04  
Where zz=shell size, yy=00-straight or 90-right angle

Shell Size	Order Code	Price Each			
		1+	10+	25+	50+
<b>Straight</b>					
9	128-1655▲				
11	128-1656▲				
13	128-1657▲				
15	128-1658▲				
<b>Right Angle</b>					
9	128-1659▲				
11	128-1660▲				
13	128-1661▲				
15	128-1662▲				
<b>Zetlock Clips</b>					
9	128-1663▲				
11, 13	391-2218▲				
15	391-2220▲				

## MIL-DTL-38999 Series III



- Rugged connectors for high vibration, shock & EMI/RFI environments
- Quick mate threaded coupling system
- High performance anti-vibration mechanism
- Scoop proof design eliminates possibility of contact damage
- Olive Drab Cadmium plating
- Operating Temperature = -65°C to +175°C
- 500 hours salt spray resistance

**NEW**

No. of Ways	Insert Arrangement	Mfrs. List No.	Order Code	Price Each			
				1+	10+	25+	50+
<b>Receptacle, Square Flange, Pin Contacts</b>							
6	9-35	D38999/20WA35PN	183-6702▲				
3	9-98	D38999/20WA98PN	183-6704▲				
13	11-35	D38999/20WB35PN	183-6707▲				
6	11-98	D38999/20WB98PN	183-6709▲				
22	13-35	D38999/20WC35PN	183-6711▲				
10	13-98	D38999/20WC98PN	183-6713▲				
37	15-35	D38999/20WD35PN	183-6715▲				
55	17-35	D38999/20WE35PN	183-6718▲				

## Strain Relief Adaptors

### Mil-C 38999 Series III



Strain relief clamps tidy up the cable after termination and provide excellent strain relief at the termination area. Ideal for use when environmental protection is not a concern and weight saving a major consideration.

- Aluminium alloy, zinc cobalt plated
- Straight and 90° available
- Cost effective and weight saving
- RoHS compliant

545918

Shell Size	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Straight</b>						
9	BS1SRL08999XY	175-1719●				
11	BS1SRL10999XY	175-1720●				
13	BS1SRL12999XY	175-1721●				
15	BS1SRL14999XY	175-1722●				

## Bandlock Adaptors

### Mil-C 38999 Series III



- Aluminium alloy, zinc cobalt plated
- Straight and 90° (Chimney Pot) available
- Suitable for over-moulding
- Low DC resistance
- RoHS compliant

Bandlock adaptors are effective for the termination of screens using tempered bands.

545943

Shell Size	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Straight</b>						
9	BK4SRL08049XY	175-1737●				
11	BK4SRL10059XY	175-1738●				
13	BK4SRL12079XY	175-1739●				
15	BK4SRL14099XY	175-1740●				
17	BK4SRL16109XY	175-1741●				

No. of Ways	Insert Arrangement	Mfrs. List No.	Order Code	1+	10+	25+	50+
<b>Receptacle, Square Flange, Socket Contacts</b>							
6	9-35	D38999/20WA35SN	183-6703▲				
3	9-98	D38999/20WA98SN	183-6706▲				
13	11-35	D38999/20WB35SN	183-6708▲				
6	11-98	D38999/20WB98SN	183-6710▲				
22	13-35	D38999/20WC35SN	183-6712▲				
10	13-98	D38999/20WC98SN	183-6714▲				
37	15-35	D38999/20WD35SN	183-6716▲				
55	17-35	D38999/20WE35SN	183-6719▲				
<b>Receptacle, Jam Nut, Pin Contacts</b>							
6	9-35	D38999/24WA35PN	183-6720▲				
3	9-98	D38999/24WA98PN	183-6722▲				
13	11-35	D38999/24WB35PN	183-6724▲				
6	11-98	D38999/24WB98PN	183-6726▲				
22	13-35	D38999/24WC35PN	183-6728▲				
10	13-98	D38999/24WC98PN	183-6732▲				
37	15-35	D38999/24WD35PN	183-6734▲				
55	17-35	D38999/24WE35PN	183-6736▲				
<b>Receptacle, Jam Nut, Socket Contacts</b>							
6	9-35	D38999/24WA35SN	183-6721▲				
3	9-98	D38999/24WA98SN	183-6723▲				
13	11-35	D38999/24WB35SN	183-6725▲				
6	11-98	D38999/24WB98SN	183-6727▲				
22	13-35	D38999/24WC35SN	183-6731▲				
10	13-98	D38999/24WC98SN	183-6733▲				
37	15-35	D38999/24WD35SN	183-6735▲				
55	17-35	D38999/24WE35SN	183-6737▲				
<b>Plug, RFI, Pin Contacts</b>							
6	9-35	D38999/26WA35PN	183-6738▲				
3	9-98	D38999/26WA98PN	183-6740▲				
13	11-35	D38999/26WB35PN	183-6743▲				
6	11-98	D38999/26WB98PN	183-6745▲				
22	13-35	D38999/26WC35PN	183-6747▲				
10	13-98	D38999/26WC98PN	183-6749▲				
37	15-35	D38999/26WD35PN	183-6751▲				
55	17-35	D38999/26WE35PN	183-6753▲				
<b>Plug, RFI, Socket Contacts</b>							
6	9-35	D38999/26WA35SN	183-6739▲				
3	9-98	D38999/26WA98SN	183-6741▲				
13	11-35	D38999/26WB35SN	183-6744▲				
6	11-98	D38999/26WB98SN	183-6746▲				
22	13-35	D38999/26WC35SN	183-6748▲				
10	13-98	D38999/26WC98SN	183-6750▲				
37	15-35	D38999/26WD35SN	183-6752▲				
55	17-35	D38999/26WE35SN	183-6755▲				

### MIL-DTL-38999 Series III Screen Trap™ Backshells



This series of adapters provides a simplified method of grounding over all shields. The shield / braid is secured between a male and female thread providing a good bonding joint. No additional tooling is

required to terminate Screen Trap™ backshells. Simple but effective EMI / RFI and environmental protection. All Screen Trap™ adapters are capable of terminating single, double or optimised screens thereby making the Screen-Trap™ ideal where RFI, EMI, EMP, Tempest or HIRF conditions apply. Screen Trap backshells are for use with all MIL-DTL-38999 Series III connectors.

657647

Shell Size	Cable Entry Diam (mm)	Mfrs. List No.	Order Code	1+	5+	10+	10+
<b>Cable Exit Angle 180</b>							
9	4.7	ABAC1003W09	209-9735▲				
15	17.4	ABAC1011W15	209-9742▲				
17	17.4	ABAC1011W17	209-9744▲				
17	20.6	ABAC1013W17	209-9745▲				
19	20.6	ABAC1013W19	209-9746▲				
19	23.8	ABAC1015W19	209-9747▲				
21	23.8	ABAC1015W21	209-9748▲				
21	27.0	ABAC1017W21	209-9749▲				
23	27.0	ABAC1017W23	209-9750▲				
23	30.2	ABAC1019W23	209-9751▲				
25	30.2	ABAC1019W25	209-9752▲				
25	33.3	ABAC1021W25	209-9753▲				

Shell Size	Cable Entry Diam (mm)	Mfrs. List No.	Order Code	1+	5+	10+	10+
<b>Cable Exit Angle 90</b>							
9	4.7	ABAC0703W09	209-9754▲				
9	7.9	ABAC0705W09	209-9756▲				
11	7.9	ABAC0705W11	209-9757▲				
11	11.1	ABAC0707W11	209-9758▲				
13	11.1	ABAC0707W13	209-9759▲				
13	14.2	ABAC0709W13	209-9760▲				
15	14.2	ABAC0709W15	209-9761▲				
15	17.4	ABAC0711W15	209-9762▲				
17	17.4	ABAC0711W17	209-9763▲				
17	20.6	ABAC0713W17	209-9764▲				
19	20.6	ABAC0713W19	209-9765▲				
19	23.8	ABAC0715W19	209-9766▲				
21	23.8	ABAC0715W21	209-9768▲				
21	27.0	ABAC0717W21	209-9769▲				
23	27.0	ABAC0717W23	209-9770▲				
25	33.3	ABAC0721W25	209-9773▲				

### MIL-DTL-38999 Series III

Zinc Nickel Plating



- EMI/RFI shielding and shell to shell continuity
- 100% scoop proof contact protection
- 500 mating cycles
- RoHS Compliant Zinc Nickel plating
- 500 Hours Salt Spray protection
- Operating Temperature = -65°C to +200°C
- Standards: MIL-DTL-38999 Series III, EN3645, BACC63CT/CU; BACC63DB/DC

**NEW**

637879

No. of Ways	Insert Arrangement	Mfrs. List No.	Order Code	1+	5+	10+	25+
<b>Receptacle, Square Flange, Pin Contacts</b>							
6	9-35	8D009Z35PA	185-0343●				
6	9-35	8D009Z35PN	185-0344●				
3	9-98	8D009Z98PA	185-0347●				
3	9-98	8D009Z98PN	185-0348●				
13	11-35	8D011Z35PA	185-0353●				
13	11-35	8D011Z35PN	185-0354●				
6	11-98	8D011Z98PA	185-0357●				
6	11-98	8D011Z98PN	185-0358●				
22	13-35	8D013Z35PA	185-0361●				
22	13-35	8D013Z35PN	185-0363●				
10	13-98	8D013Z98PA	185-0366●				
10	13-98	8D013Z98PN	185-0367●				
37	15-35	8D015Z35PA	185-0370●				
37	15-35	8D015Z35PN	185-0371●				
55	17-35	8D017Z35PN	185-0375●				
66	19-35	8D019Z35PN	185-0377●				
79	21-35	8D021Z35PN	185-0379●				
<b>Receptacle, Square Flange, Socket Contacts</b>							
6	9-35	8D009Z35SA	185-0345●				
6	9-35	8D009Z35SN	185-0346●				
3	9-98	8D009Z98SA	185-0351●				
3	9-98	8D009Z98SN	185-0352●				
13	11-35	8D011Z35SA	185-0355●				
13	11-35	8D011Z35SN	185-0356●				
6	11-98	8D011Z98SA	185-0359●				
6	11-98	8D011Z98SN	185-0360●				
22	13-35	8D013Z35SA	185-0364●				
22	13-35	8D013Z35SN	185-0365●				
10	13-98	8D013Z98SA	185-0368●				
10	13-98	8D013Z98SN	185-0369●				
37	15-35	8D015Z35SA	185-0372●				
37	15-35	8D015Z35SN	185-0373●				
55	17-35	8D017Z35SN	185-0376●				
66	19-35	8D019Z35SN	185-0378●				
79	21-35	8D021Z35SN	185-0380●				
<b>Plug, RFI, Pin Contacts</b>							
6	9-35	8D509Z35PA	185-0381●				
6	9-35	8D509Z35PN	185-0382●				
3	9-98	8D509Z98PA	185-0385●				
3	9-98	8D509Z98PN	185-0387●				
13	11-35	8D511Z35PA	185-0390●				
13	11-35	8D511Z35PN	185-0391●				
6	11-98	8D511Z98PA	185-0394●				
6	11-98	8D511Z98PN	185-0395●				

# Circular Multipole - MIL-C-38999 - continued

## MIL-DTL-38999 Series III - continued

### Zinc Nickel Plating - continued

No. of Insert	Mfrs.	Price Each					
Ways	Arrangement	List No.	Order Code	1+	5+	10+	25+

#### Plug, RFI, Pin Contacts

22	13-35	8D513Z35PA	185-0399	●
22	13-35	8D513Z35PN	185-0400	●
10	13-98	8D513Z98PA	185-0403	●
10	13-98	8D513Z98PN	185-0405	●
37	15-35	8D515Z35PA	185-0408	●
37	15-35	8D515Z35PN	185-0409	●
55	17-35	8D517Z35PN	185-0412	●
66	19-35	8D519Z35PN	185-0414	●
79	21-35	8D521Z35PN	185-0417	●

#### Plug, RFI, Socket Contacts

6	9-35	8D509Z35SA	185-0383	●
6	9-35	8D509Z35SN	185-0384	●
3	9-98	8D509Z98SA	185-0388	●
3	9-98	8D509Z98SN	185-0389	●
13	11-35	8D511Z35SA	185-0392	●
13	11-35	8D511Z35SN	185-0393	●
6	11-98	8D511Z98SA	185-0396	●
6	11-98	8D511Z98SN	185-0397	●
22	13-35	8D513Z35SA	185-0401	●
22	13-35	8D513Z35SN	185-0402	●
10	13-98	8D513Z98SA	185-0406	●
10	13-98	8D513Z98SN	185-0407	●
37	15-35	8D515Z35SA	185-0410	●
37	15-35	8D515Z35SN	185-0411	●
55	17-35	8D517Z35SN	185-0413	●
66	19-35	8D519Z35SN	185-0415	●
79	21-35	8D521Z35SN	185-0418	●

#### Receptacle, Jam Nut, Pin Contacts

6	9-35	8D709Z35PA	185-0419	●
6	9-35	8D709Z35PN	185-0420	●
3	9-98	8D709Z98PA	185-0423	●
3	9-98	8D709Z98PN	185-0424	●
13	11-35	8D711Z35PA	185-0427	●
13	11-35	8D711Z35PN	185-0429	●
6	11-98	8D711Z98PA	185-0433	●
6	11-98	8D711Z98PN	185-0434	●
22	13-35	8D713Z35PA	185-0437	●
22	13-35	8D713Z35PN	185-0438	●
10	13-98	8D713Z98PA	185-0442	●
10	13-98	8D713Z98PN	185-0443	●
37	15-35	8D715Z35PA	185-0446	●
37	15-35	8D715Z35PN	185-0447	●
55	17-35	8D717Z35PN	185-0450	●
66	19-35	8D719Z35PN	185-0452	●
79	21-35	8D721Z35PN	185-0455	●

#### Receptacle, Jam Nut, Socket Contacts

6	9-35	8D709Z35SA	185-0421	●
6	9-35	8D709Z35SN	185-0422	●
3	9-98	8D709Z98SA	185-0425	●
3	9-98	8D709Z98SN	185-0426	●
13	11-35	8D711Z35SA	185-0431	●
13	11-35	8D711Z35SN	185-0432	●
6	11-98	8D711Z98SA	185-0435	●
6	11-98	8D711Z98SN	185-0436	●
22	13-35	8D713Z35SA	185-0439	●
22	13-35	8D713Z35SN	185-0440	●
10	13-98	8D713Z98SA	185-0444	●
10	13-98	8D713Z98SN	185-0445	●
37	15-35	8D715Z35SA	185-0448	●
37	15-35	8D715Z35SN	185-0449	●
55	17-35	8D717Z35SN	185-0451	●
66	19-35	8D719Z35SN	185-0454	●
79	21-35	8D721Z35SN	185-0456	●

### SpinLock Adapters



**NEW**



Spin lock variable angle backshell enables straight, 45° and 90° cable terminations with the same part. The connector backshell swivelling body rotates around the axis of the cable bundle and locks in position, minimizing stress on the wire bundle and providing more robust strain relief than other termination systems.

- Variable angle backshell enables straight, 45° and 90° cable terminations with the same part
- High performance, low resistance shield termination provided by the proven Tinel-Lock ring system or bandstrap
- Sealed termination achieved via a standard heat-shrinkable molded shape and adhesive system
- Available in a variety of material and plating options
- Saddle clamp strain relief or heat-shrinkable molded shape provides strain relief and sealing
- Military & commercial aerospace, military ground systems, military marine, commercial & offshore marine applications

662936

Shell	Mfrs.	Price Each			
Size	List No.	Order Code	1+	5+	10+

#### Aluminium Alloy, Cadmium Olive Drab Plating

9	SLM40AB-0804A-25-0	210-1505	▲
11	SLM40AB-1006A-25-0	210-1507	▲
13	SLM40AB-1208A-25-0	210-1508	▲
15	SLM40AB-1410A-25-0	210-1509	▲
17	SLM40AB-1612A-25-0	210-1510	▲

#### Aluminium Alloy, Electroless Nickel Plating

9	SLC40AC-0804A	210-1511	●
11	SLC40AC-1006A	210-1512	●
13	SLC40AC-1208A	210-1513	●
15	SLC40AC-1410A	210-1514	●
17	SLC40AC-1612A	210-1515	●

### Bandstrap Adapters



**NEW**



- Designed to terminate a braided cable shield by means of a band strap and a heat shrinkable lipped boot to a connector
- Adapter is marked with code identification number and full part number
- Adapter mates to MIL-C-38999 Series III and IV, Class C, F, K and W, D38999/20, /24, /26, /40, /46, and /47 connectors
- Available in Cadmium or Nickel

662934

Shell	Mfrs.	Price Each			
Size	List No.	Order Code	1+	5+	10+

#### Aluminium Alloy, Cadmium Plating

9	BNX40AB00-0804AX	210-1485	▲
11	BNX40AB00-1006AX	210-1486	▲
13	BNX40AB00-1208AX	210-1487	▲
15	BNX40AB00-1410AX	210-1489	▲
17	BNX40AB00-1612AX	210-1491	▲
19	BNX40AB00-1812AX	210-1492	▲
21	BNX40AB00-2012AX	210-1493	▲
23	BNX40AB00-2212AX	210-1494	▲
25	BNX40AB00-2412AX	210-1495	▲

#### Aluminium Alloy, Nickel Plating

9	BNX40AZ00-0804AX	210-1496	▲
11	BNX40AZ00-1006AX	210-1497	▲
13	BNX40AZ00-1208AX	210-1498	▲
15	BNX40AZ00-1410AX	210-1499	▲
17	BNX40AZ00-1612AX	210-1500	▲
19	BNX40AZ00-1812AX	210-1501	▲
21	BNX40AZ00-2012AX	210-1502	▲
23	BNX40AZ00-2212AX	210-1503	▲
25	BNX40AZ00-2412AX	210-1504	▲

### Tinel-Lock Adapters

**NEW**



- Designed to terminate a braided cable shield and a heat shrinkable lipped boot to a connector
- Rings are designed to be heated electrically and are marked with thermochromic paint which changes color when installation temperature is reached
- For larger entry sizes, a 2 piece adapter (Type II) is supplied
- Adapter mates to MIL-C-38999 Series III and IV, Class C, F, K and W, D38999/20, /24, /26, /40, /46, and /47 connectors
- When mated provides a water tight seal meeting MIL-C-85049, Par. 3.5.7
- Coupling nut has three lock wire holes, 120° apart
- Available in Cadmium or Nickel

662940

Shell Size	Mfrs. List No.	Order Code	1+	5+	10+
<b>Aluminium Alloy, Cadmium Plating</b>					
9	TXR40AB00-0804AI	210-1516▲			
11	TXR40AB00-1006AI	210-1517▲			
13	TXR40AB00-1208AI	210-1519▲			
15	TXR40AB00-1410AI	210-1521▲			
17	TXR40AB00-1612AI	210-1522▲			
<b>Aluminium Alloy, Zinc Nickel Plating</b>					
9	TXR40AZ00-0804AI	210-1523▲			
11	TXR40AZ00-1006AI	210-1524▲			
13	TXR40AZ00-1208AI	210-1525▲			
15	TXR40AZ00-1410AI	210-1526▲			
17	TXR40AZ00-1612AI	210-1527▲			

## MKJ Series



- MKJ series provides significant size & weight reductions whilst providing the electrical & mechanical characteristics of the MIL-DTL-38999 connectors
- Locking style: Double thread, bayonet or breakaway
- Feature master key and 2 secondary keys for positive mating
- Shell style: In-line, straight plug or jam nut receptacle
- Housing material: Aluminium
- Housing plating: F = Nickel, W = OD Cad
- Applications: Medical, military, commercial and industrial



**NEW**

Contact Type	Rear Crimp or PCB Mount	Current Rating	5A max.
Wire Accommodation	28 - 22 AWG	Voltage Rating	500 VAC RMS Sea Level
Durability	2000 mated cycles	Operating Temperature	-55°C to 150°C

658372

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	5+	10+
<b>Plug, Bayonet Style, Straight Plug, Removable Socket Crimp</b>						
4	6	MKJ3A6F6-4SN	206-9991●			
7	6	MKJ3A6F6-7SN	206-9992●			
10	7	MKJ3A6F7-10SN	206-9993●			
19	9	MKJ3A6F9-19SN	206-9995●			
<b>Plug, Bayonet Style, Straight Plug, Removable Pin Crimp</b>						
4	6	MKJ3A6F6-4PN	206-9996●			
7	6	MKJ3A6F6-7PN	206-9997●			
10	7	MKJ3A6F7-10PN	206-9998●			
19	9	MKJ3A6F9-19PN	206-9999●			
<b>Plug, Bayonet Style, Straight Plug, Removable Socket Crimp</b>						
4	6	MKJ3A6W6-4SN	207-0000▲			
7	6	MKJ3A6W6-7SN	207-0001▲			
10	7	MKJ3A6W7-10SN	207-0002▲			
19	9	MKJ3A6W9-19SN	207-0003▲			
<b>Plug, Bayonet Style, Straight Plug, Removable Pin Crimp</b>						
4	6	MKJ3A6W6-4PN	207-0004▲			
7	6	MKJ3A6W6-7PN	207-0006▲			
10	7	MKJ3A6W7-10PN	207-0007▲			
19	9	MKJ3A6W9-19PN	207-0008▲			
<b>Receptacle, Bayonet Style, Jam Nut, Removable Pin Crimp</b>						
4	6	MKJ3A7F6-4PN	207-0009●			
7	6	MKJ3A7F6-7PN	207-0010●			
10	7	MKJ3A7F7-10PN	207-0011●			
19	9	MKJ3A7F9-19PN	207-0012●			
<b>Receptacle, Bayonet Style, Jam Nut, Removable socket Crimp</b>						
4	6	MKJ3A7F6-4SN	207-0013●			
7	6	MKJ3A7F6-7SN	207-0014●			
10	7	MKJ3A7F7-10SN	207-0015●			
19	9	MKJ3A7F9-19SN	207-0016●			
<b>Receptacle, Bayonet Style, Jam Nut, Removable Pin Crimp</b>						
4	6	MKJ3A7W6-4PN	207-0018▲			
7	6	MKJ3A7W6-7PN	207-0019▲			
10	7	MKJ3A7W7-10PN	207-0020▲			
19	9	MKJ3A7W9-19PN	207-0021▲			
<b>Receptacle, Bayonet Style, Jam Nut, Removable Socket Crimp</b>						
4	6	MKJ3A7W6-4SN	207-0022▲			
7	6	MKJ3A7W6-7SN	207-0023▲			
10	7	MKJ3A7W7-10SN	207-0024▲			
19	9	MKJ3A7W9-19SN	207-0025▲			
<b>Plug, Double Start Threaded, Straight Plug, Removable Socket Crimp</b>						
4	6	MKJ1A6F6-4SA	207-0026●			
7	6	MKJ1A6F6-7SA	207-0027●			
10	7	MKJ1A6F7-10SA	207-0028●			
19	9	MKJ1A6F9-19SA	207-0031●			

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	5+	10+
<b>Plug, Double Start Threaded, Straight Plug, Removable Pin Crimp</b>						
4	6	MKJ1A6F6-4PA	207-0032●			
7	6	MKJ1A6F6-7PA	207-0033●			
10	7	MKJ1A6F7-10PA	207-0034●			
19	9	MKJ1A6F9-19PA	207-0035●			
<b>Plug, Double Start Threaded, Straight Plug, Removable Socket Crimp</b>						
4	6	MKJ1A6W6-4SA	207-0036▲			
7	6	MKJ1A6W6-7SA	207-0037▲			
10	7	MKJ1A6W7-10SA	207-0038▲			
19	9	MKJ1A6W9-19SA	207-0039▲			
<b>Plug, Double Start Threaded, Straight Plug, Removable Pin Crimp</b>						
4	6	MKJ1A6W6-4PA	207-0040▲			
7	6	MKJ1A6W6-7PA	207-0041▲			
10	7	MKJ1A6W7-10PA	207-0043▲			
19	9	MKJ1A6W9-19PA	207-0044▲			
<b>Receptacle, Double Start Threaded, Jam Nut, Removable Pin Crimp</b>						
4	6	MKJ1A7F6-4PA	207-0045●			
7	6	MKJ1A7F6-7PA	207-0046●			
10	7	MKJ1A7F7-10PA	207-0047●			
19	9	MKJ1A7F9-19PA	207-0048●			
<b>Receptacle, Double Start Threaded, Jam Nut, Removable Socket Crimp</b>						
4	6	MKJ1A7F6-4SA	207-0049●			
7	6	MKJ1A7F6-7SA	207-0050●			
10	7	MKJ1A7F7-10SA	207-0051●			
19	9	MKJ1A7F9-19SA	207-0052●			
<b>Receptacle, Double Start Threaded, Jam Nut, Removable Pin Crimp</b>						
4	6	MKJ1A7W6-4PA	207-0053▲			
7	6	MKJ1A7W6-7PA	207-0055▲			
10	7	MKJ1A7W7-10PA	207-0056▲			
19	9	MKJ1A7W9-19PA	207-0057▲			
<b>Receptacle, Double Start Threaded, Jam Nut, Removable Socket Crimp</b>						
4	6	MKJ1A7W6-4SA	207-0058▲			
7	6	MKJ1A7W6-7SA	207-0059▲			
10	7	MKJ1A7W7-10SA	207-0060▲			
19	9	MKJ1A7W9-19SA	207-0061▲			
<b>Receptacle, Double Start Threaded, Black Potted, Jam Nut, Pin PC Tail</b>						
4	6	MKJ1C7W6-4BA	207-0062▲			
7	6	MKJ1C7W6-7BA	207-0063▲			
10	7	MKJ1C7W7-10BA	207-0064▲			
19	9	MKJ1C7W9-19BA	207-0065▲			
<b>Receptacle, Double Start Threaded, Black Potted, Jam Nut, Socket PC Tail</b>						
4	6	MKJ1C7W6-4DA	207-0067▲			
7	6	MKJ1C7W6-7DA	207-0068▲			
10	7	MKJ1C7W7-10DA	207-0069▲			
19	9	MKJ1C7W9-19DA	207-0070▲			
<b>Plug, Breakaway, Straight Plug, Removable Pin Crimp</b>						
4	6	MKJ4A6F6-4P	207-0071●			
7	6	MKJ4A6F6-7P	207-0072●			
10	7	MKJ4A6F7-10P	207-0073●			
19	9	MKJ4A6F9-19P	207-0074●			
<b>Plug, Breakaway, Straight Plug, Removable Socket Crimp</b>						
4	6	MKJ4A6F6-4S	207-0075●			
7	6	MKJ4A6F6-7S	207-0076●			
10	7	MKJ4A6F7-10S	207-0077●			
19	9	MKJ4A6F9-19S	207-0079●			
<b>Receptacle, Breakaway, In-Line, Removable Pin Crimp</b>						
4	6	MKJ4A1F6-4P	207-0081●			
7	6	MKJ4A1F6-7P	207-0082●			
10	7	MKJ4A1F7-10P	207-0083●			
19	9	MKJ4A1F9-19P	207-0084●			
<b>Receptacle, Breakaway, In-Line, Removable Socket Crimp</b>						
4	6	MKJ4A1F6-4S	207-0085●			
7	6	MKJ4A1F6-7S	207-0086●			
10	7	MKJ4A1F7-10S	207-0087●			
19	9	MKJ4A1F9-19S	207-0088●			
<b>Plug, Breakaway, Straight Plug, Removable Pin Crimp</b>						
4	6	MKJ4A6W6-4P	207-0089▲			
7	6	MKJ4A6W6-7P	207-0090▲			
10	7	MKJ4A6W7-10P	207-0092▲			
19	9	MKJ4A6W9-19P	207-0093▲			
<b>Receptacle, Breakaway, In-Line, Removable Socket Crimp</b>						
4	6	MKJ4A1W6-4S	207-0094▲			
7	6	MKJ4A1W6-7S	207-0095▲			
10	7	MKJ4A1W7-10S	207-0096▲			
19	9	MKJ4A1W9-19S	207-0097▲			

# Circular Multipole - MIL-C-38999 - continued

## Ratchet Coupling Connector



M Series



This connector is one of the lightest and most compact of the LEMO product line. A one-grip ratchet screw system enables quick and secure coupling of the connectors. The optional arctic grip makes it easy to manipulate the connector while wearing gloves or when the connector is located in a difficult to access area.

- Quick mating: Half turn to seat
- Sealed to IP68 when mated
- High vibration and shock resistance
- Durability: 3000 cycles
- Full EMC protection
- Shell material: Aluminium

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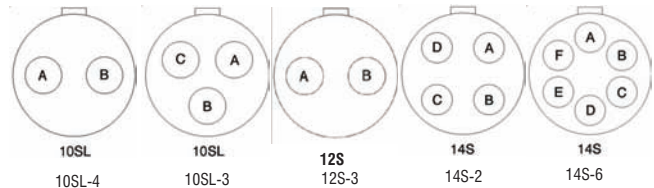
No. of Ways	Mftrs. Shell Size	List No.	Order Code	1+	10+	25+	50+
<b>Plug - In line - Arctic Grip</b>							
3	0M	FGN.0M.303.XLCT	185-9177	●			
5	0M	FGN.0M.305.XLCT	185-9178	●			
5	1M	FGN.1M.305.XLCT	185-9179	●			
8	1M	FGN.1M.308.XLCT	207-7475	●			
10	2M	FGN.2M.310.XLCT	207-7476	●			
12	2M	FGN.2M.312.XLCT	207-7477	●			
19	2M	FGN.2M.319.XLCT	207-7478	●			
<b>Socket - Panel Mount</b>							
3	0M	EGN.0M.303.XLM	185-9180	●			
5	0M	EGN.0M.305.XLM	185-9181	●			
5	1M	EGN.1M.305.XLM	185-9182	●			
8	1M	EGN.1M.308.XLM	207-7479	●			
10	2M	EGN.2M.310.XLM	207-7480	●			
12	2M	EGN.2M.312.XLM	207-7481	●			
19	2M	EGN.2M.319.XLM	207-7482	●			
<b>Socket - Square Flange</b>							
3	0M	EDN.0M.303.XLM	185-9184	●			
5	0M	EDN.0M.305.XLM	185-9185	●			
5	1M	EDN.1M.305.XLM	185-9186	●			
8	1M	EDN.1M.308.XLM	207-7483	●			
<b>Socket - Back Panel Mount</b>							
3	0M	PEN.0M.303.XLMT	185-9187	●			
5	0M	PEN.0M.305.XLMT	185-9188	●			
5	1M	PEN.1M.305.XLMT	185-9189	●			
8	1M	PEN.1M.308.XLMT	207-7484	●			
<b>Socket - PCB Mount</b>							
3	0M	HEN.0M.303.XLNP	185-9190	●			
5	0M	HEN.0M.305.XLNP	185-9191	●			
5	1M	HEN.1M.305.XLNP	185-9192	●			
8	1M	HEN.1M.308.XLNP	207-7485	●			
10	2M	HEN.2M.310.XLNP	207-7487	●			
12	2M	HEN.2M.312.XLNP	207-7488	●			
19	2M	HEN.2M.319.XLNP	207-7489	●			
<b>Socket - In Line - Arctic</b>							
3	0M	PHN.0M.303.XLMT	185-9193	●			
5	0M	PHN.0M.305.XLMT	185-9194	●			
5	1M	PHN.1M.305.XLMT	185-9196	●			
8	1M	PHN.1M.308.XLMT	207-7490	●			
10	2M	PHN.2M.310.XLMT	207-7491	●			
12	2M	PHN.2M.312.XLMT	207-7492	●			
19	2M	PHN.2M.319.XLMT	207-7493	●			
<b>Cap - Arctic Grip</b>							
Plug	0M	BGF.0M.100.XAV	185-9197	●			
Plug	1M	BGF.1M.100.XAV	185-9198	●			
Plug	2M	BGF.2M.100.XAV	207-7494	●			
Socket	0M	BGE.0M.200.XAZ	185-9199	●			
Socket	1M	BGE.1M.200.XAZ	185-9200	●			
Socket	2M	BGE.2M.200.XAZ	207-7495	●			

# Circular Multipole - MIL-C-5015

## MIL-C-5015 Connectors



Highly durable, threaded, circular Military and Commercial connectors designed for use in fixed or mobile equipment. They are particularly suitable for commercial, industrial equipment, machine tools, robotics and automation applications requiring low cost and high reliability. This RoHS compliant range of connectors are fully compatible with the MIL-C-5015 standard and so are fully sealed against water ingress.



### Specification

Current Rating	13A
Insulation Resistance	≥5000MΩ
Voltage Rating AC	200V rms
Voltage Rating DC	250V
Mating Cycles	500
Operating Temperature	-55°C to 125°C

### Environmental Test Data

Vibration	MIL-STD-1344 Method 2005. 10 ~ 500Hz (10G)
Shock	50G/ Time 11 sec. Test Current 100mA
Salt Spray	MIL-STD-1344 Method 1001. Salt solution 5% 48 hrs
Humidity	95% ± 3% temperature 71°C ± 2°C

### Materials

Housing	Aluminium Alloy, Zinc Colbalt Black coating
Contacts (Size 16)	Copper Alloy, Silver Plate Finish
Insulators & Seals	Synthetic Rubber

Mftrs. List No. C90-zzzzzzzzzzz

Where zzzzz=3106F-free plug or 3102R-panel mount or 3101F-free receptacle, yyyy=contact configuration, x=P-pin contacts or S-socket contacts

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Shell Size	No. of Contacts	Insert Type	Order Code	1+	5+	10+	25+	50+
<b>Free Plug - Socket Contacts</b>								
10	2	10SL-4	177-8591	●				
10	3	10SL-3	177-8592	●				
12	2	12S-3	177-8616	●				
14	4	14S-2	177-8590	●				
14	6	14S-6	177-8589	●				
<b>Free Plug - Pin Contacts</b>								
10	2	10SL-4	177-8595	●				
10	3	10SL-3	177-8597	●				
12	2	12S-3	177-8617	●				
14	4	14S-2	177-8594	●				
14	6	14S-6	177-8593	●				
<b>Panel Mount Receptacle - Socket Contacts</b>								
10	2	10SL-4	177-8600	●				
10	3	10SL-3	177-8601	●				
12	2	12S-3	177-8620	●				
14	4	14S-2	177-8599	●				
14	6	14S-6	177-8598	●				
<b>Panel Mount Receptacle - Pin Contacts</b>								
10	2	10SL-4	177-8605	●				
10	3	10SL-3	177-8606	●				
12	2	12S-3	177-8621	●				
14	4	14S-2	177-8604	●				
14	6	14S-6	177-8603	●				
<b>Free Receptacle - Socket Contacts</b>								
10	2	10SL-4	177-8609	●				
10	3	10SL-3	177-8610	●				
12	2	12S-3	177-8618	●				
14	4	14S-2	177-8608	●				
14	6	14S-6	177-8607	●				
<b>Free Receptacle - Pin Contacts</b>								
10	2	10SL-4	177-8613	●				
12	2	12S-3	177-8619	●				
14	4	14S-2	177-8612	●				
14	6	14S-6	177-8611	●				
<b>Accessories</b>								
<b>Dust Cap, External Thread</b>				1+	5+	10+	+	+
14S			177-8624	●				
<b>Dust Cap, Internal Thread</b>								
10SL			177-8625	●				
14S			177-8628	●				
<b>Rubber Bushings</b>								
10SL, 12S			177-8629	●				
14S			177-8630	●				

MIL-C-5015 Connectors



MIL-C-5015 connectors are designed and manufactured for extreme conditions but are ideally suited to commercial applications where a low cost rugged connector is required.

- Completely sealed to withstand moisture, condensation, vibration and flashover
- Tinned solder pot termination

Typical applications include aircraft, industrial equipment, medical equipment, transportation, communication, robotics and telecommunications

Specification		Specification	
Current Rating	13A	Wire Range	16 to 20 AWG
Insulation Resistance	≥5000MΩ	<b>Materials</b>	
Voltage Rating AC	200V rms	Housing	Aluminium Alloy Olive Drab Chromate finish
Voltage Rating DC	250V	Contacts (Size 16)	Copper Alloy, Silver plated
Mating Cycles	100	Insulator	Neoprene
Operating Temperature	-55°C to 125°C		

MS3106F straight plugs mate with MS3102 receptacles  
MS3101F cable connecting plugs are used for cable extension requirements where mounting provisions are unnecessary and mate with MS3106F plugs

Mfrs. List No.	MS3106F10SL-4P=390-5160	MS3102R14S-5P=390-5305
MS3106F20-29S=390-5019	MS3106F10SL-3P=390-5184	MS3102R14S-2P=390-5329
MS3106F20-27S=390-5032	MS3102R20-29S=390-5196	MS3102R10SL-4P=390-5342
MS3106F18-1S=390-5056	MS3102R20-27S=390-5214	MS3102R10SL-3P=390-5366
MS3106F16S-1S=390-5070	MS3102R18-1S=390-5238	MS3101F20-27S=390-5391
MS3106F14S-6S=390-5093	MS3102R16S-1S=390-5251	MS3101F16S-1S=390-5433
MS3106F14S-5S=390-5111	MS3102R14S-6S=390-5275	MS3101F16S-1S=390-5433
MS3106F14S-2S=390-5135	MS3102R14S-5S=390-5299	MS3101F14S-5S=390-5470
MS3106F10SL-4S=390-5159	MS3102R14S-2S=390-5317	MS3101F10SL-4S=390-5512
MS3106F10SL-3S=390-5172	MS3102R10SL-4S=390-5330	MS3101F10SL-3S=390-5536
MS3106F20-29P=390-5020	MS3102R10SL-3S=390-5354	MS3101F20-27P=390-5408
MS3106F20-27P=390-5044	MS3102R20-29P=390-5202	MS3101F16S-1P=390-5445
MS3106F18-1P=390-5068	MS3102R20-27P=390-5226	MS3101F14S-5P=390-5482
MS3106F16S-1P=390-5081	MS3102R18-1P=390-5240	MS3101F14S-2P=390-5500
MS3106F14S-6P=390-5100	MS3102R16S-1P=390-5263	MS3101F10SL-4P=390-5524
MS3106F14S-5P=390-5123	MS3102R14S-6P=390-5287	MS3101F10SL-3P=390-5548
MS3106F14S-2P=390-5147		

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Shell	No.	Order Code	1+	5+	10+	50+
<b>Free Plug - Socket Contacts</b>						
10	2	390-5159▲				
10	3	390-5172▲				
14	4	390-5135▲				
14	5	390-5111▲				
14	6	390-5093▲				
16	7	390-5070▲				
18	10	390-5056▲				
20	14	390-5032▲				
20	17	390-5019▲				
<b>Free Plug - Pin Contacts</b>						
10	2	390-5160▲				
10	3	390-5184▲				
14	4	390-5147▲				
14	5	390-5123▲				
14	6	390-5100▲				
16	7	390-5081▲				
18	10	390-5068▲				
20	14	390-5044▲				
20	17	390-5020▲				
<b>Panel Mount Receptacle - Socket Contacts</b>						
10	2	390-5330▲				
10	3	390-5354▲				
14	4	390-5317▲				
14	5	390-5299▲				
14	6	390-5275▲				
16	7	390-5251▲				
18	10	390-5238▲				
20	14	390-5214▲				
20	17	390-5196▲				
<b>Panel Mount Receptacle - Pin Contacts</b>						
10	2	390-5342▲				
10	3	390-5366▲				
14	4	390-5329▲				
14	5	390-5305▲				
14	6	390-5287▲				
16	7	390-5263▲				
18	10	390-5240▲				
20	14	390-5226▲				
20	17	390-5202▲				

Shell	No.	Order Code	1+	5+	10+	50+
<b>Cable Connector Plug (Receptacle with no mounting flange) - Socket Contacts</b>						
10	2	390-5512▲				
10	3	390-5536▲				
14	5	390-5470▲				
16	7	390-5433▲				
20	14	390-5391▲				
<b>Cable Connector Plug (Receptacle with no mounting flange) - Pin Contacts</b>						
10	2	390-5524▲				
10	3	390-5548▲				
14	4	390-5500▲				
14	5	390-5482▲				
16	7	390-5445▲				
20	14	390-5408▲				

CA-Bayonet Series MIL-C-5015 Reverse Bayonet Lock



Derived from MIL-C-5015 but uses a positive, quick mating 3-point reverse bayonet lock coupling system. These connectors share the same shell dimensions and contact layouts as MIL-C-5015 threaded connectors but the series are not interchangeable. Completely sealed to withstand moisture, condensation, vibration and flashover across a broad range of wire diameters.

- Allows mating and unmating with simple 120° rotation
- Eliminates cross threading
- Easier mating in cold conditions and confined spaces

Specification	Size 16 Contacts	Size 12 Contacts
Current Rating	22A	41A
Wire Range	16 to 20 AWG	12 to 14 AWG
Voltage Rating AC	200V rms	
Voltage Rating DC	250V	
Mating Cycles	2000	
Operating Temperature	-55°C to 125°C	

Materials		
Housing	Aluminium Alloy Olive Drab Chromate finish	
Contacts	Copper alloy, Gold plated	
Insulator	Neoprene	

CA3106E28-21SB=390-5780	CA3106E14S-5PB=390-5913	CA3102E18-1SB=390-6048
CA3106E24-28SB=390-5809	CA3106E14S-2SB=390-5925	CA3102E18-1PB=390-6050
CA3106E24-28PB=390-5810	CA3106E14S-2PB=390-5937	CA3102E18-11SB=390-6061
CA3106E20-29SB=390-5822	CA3106E10SL-3SB=390-5949	CA3102E16S-1SB=390-6085
CA3106E20-29PB=390-5834	CA3106E10SL-3PB=390-5950	CA3102E16S-1PB=390-6097
CA3106E18-1SB=390-5846	CA3102E28-21SB=390-5986	CA3102E14S-5SB=390-6103
CA3106E18-1PB=390-5858	CA3102E28-21PB=390-5998	CA3102E14S-5PB=390-6115
CA3106E18-11SB=390-5860	CA3102E24-28SB=390-6000	CA3102E14S-2SB=390-6127
CA3106E18-11PB=390-5871	CA3102E24-28PB=390-6012	CA3102E14S-2PB=390-6139
CA3106E16S-1SB=390-5883	CA3102E20-29SB=390-6024	CA3102E10SL-3SB=390-6140
CA3106E16S-1PB=390-5895	CA3102E20-29PB=390-6036	CA3102E10SL-3PB=390-6152
CA3106E14S-5SB=390-5901		

233518

Shell	No.	Contact	Order Code	1+	10+	25+
<b>Straight Plug - 3106 - Socket Contacts</b>						
28	37	16	390-5780▲			
24	24	16	390-5809▲			
20	17	16	390-5822▲			
18	10	16	390-5846▲			
18	5	12	390-5860▲			
16	7	16	390-5883▲			
14	5	16	390-5901▲			
14	4	16	390-5925▲			
10	3	16	390-5949▲			
<b>Straight Plug - 3106 - Pin Contacts</b>						
28	37	16	390-5792▲			
24	24	16	390-5810▲			
20	17	16	390-5834▲			
18	10	16	390-5858▲			
22	3	8	990-5618▲			
18	5	12	390-5871▲			
16	7	16	390-5895▲			
14	5	16	390-5913▲			
14	4	16	390-5937▲			
10	3	16	390-5950▲			
<b>Panel Mount Receptacle -3102 - Socket Contacts</b>						
28	37	16	390-5986▲			
24	24	16	390-6000▲			
20	17	16	390-6024▲			
18	10	16	390-6048▲			
18	5	12	390-6061▲			
16	7	16	390-6085▲			

### CA-Bayonet Series MIL-C-5015 - continued

#### Reverse Bayonet Lock - continued

Shell Size	No. Contacts	Contact Size	Order Code	Price Each		
				1+	10+	25+
<b>Panel Mount Receptacle -3102 - Socket Contacts</b>						
14	5	16	390-6103▲			
14	4	16	390-6127▲			
10	3	16	390-6140▲			
<b>Panel Mount Receptacle -3102- Pin Contacts</b>						
28	37	16	390-5998▲			
24	24	16	390-6012▲			
20	17	16	390-6036▲			
18	10	16	390-6050▲			
16	7	16	390-6097▲			
14	5	16	390-6115▲			
14	4	16	390-6139▲			
10	3	16	390-6152▲			

### CA Bayonet Connectors Blue Generation



**NEW**

The CA bayonet has a proven bayonet coupling design, enabling easy connection and disconnection. Completely sealed to resist condensation and moisture while offering exceptional resistance to vibration. These connectors excel in their harsh environment performance by exceeding current CA specifications including the following.

- Sealing degree increase to IP67
- Salt spray resistance to 500h

646047

Shell Size	No. of Ways	Order Code	Price Each			
			1+	10+	25+	50+
<b>Free Plug - Socket Contacts</b>						
10SL	3	205-9986●				
14S	4	205-9987●				
14S	5	205-9989●				
16S	7	205-9991●				
18	5	205-9992●				
18	10	205-9993●				
20	17	205-9994●				
24	24	205-9995●				
28	37	205-9996●				
<b>Free Plug - Pin Contacts</b>						
10SL	3	205-9997●				
14S	4	205-9998●				
14S	5	205-9999●				
16S	7	206-0001●				
18	5	206-0002●				
18	10	206-0003●				
20	17	206-0004●				
24	24	206-0005●				
28	37	206-0006●				
<b>Panel Mount - Receptacle Pin Contacts</b>						
10SL	3	206-0007●				
14S	4	206-0008●				
14S	5	206-0009●				
16S	7	206-0010●				
18	5	206-0011●				
18	10	206-0013●				
20	17	206-0014●				
24	24	206-0015●				
28	37	206-0016●				
<b>Panel Mount Receptacle Socket Contacts</b>						
10SL	3	206-0017●				
14S	4	206-0018●				
14S	5	206-0019●				
16S	7	206-0020●				
18	5	206-0021●				
18	10	206-0022●				
20	17	206-0023●				
24	24	206-0025●				
28	37	206-0026●				



A range of industrial multipole connectors conforming to MIL-C-5015 and manufactured to BS9522-F0032 and DEF STAN 59-35 Pattern 121B. Easy grip shells and reverse bayonet locking.

When the connectors are fully loaded each contact will carry up to 10 amps at 350Vac/dc, making this range suitable for mains harnesses for studio lighting, automotive and passenger transport applications.

The aluminium housings are cadmium plated with an olive colour chromate finish giving a high resistance to corrosion. A dynamic sealing ring and grommet provide protection against water ingress to IP67. Positive coupling is indicated by an audible snap and by visual alignment of three red dots on the receptacle and on the plug.

Contact rating	Fully loaded	10A @ 350V dc or ac peak	Housing Contacts	Aluminium Alloy
	Isolated pins	13A @ 350V dc or ac peak		Hard Silver over nickel plated Copper Alloy
Mating cycles		500	Contact type	Solder Bucket
Temperature range		-55°C to +125°C	Insulator/grommet	Polychloroprene
			Wire conductor diameter	1.68mm to 2.77mm

Mftrs. List No. ABB06T xx ySN, where xx=insert type and y=P-pin or S-socket

**Note:** Free plugs only mate with panel sockets; Free sockets only mate with panel plugs

209365

No. of Insert Ways	Arrangement	Order Code	Price Each				
			1+	10+	25+	50+	100+
<b>Free Plug - Pin Contacts</b>							
2	10SL-4	107-942▲					
3	10SL-3	107-943▲					
6	14S-6	107-944▲					
19	20A48	107-946▲					
<b>Free Socket - Socket Contacts</b>							
2	10SL-4	107-949▲					
3	10SL-3	107-950▲					
6	14S-6	107-951▲					
10	18-1	107-952▲					

Mftrs. List No. ABB00T xx ySN, where xx=insert type and y=P-pin or S-socket

No. of Insert Ways	Arrangement	Order Code	Price Each				
			1+	10+	25+	50+	100+
<b>Panel Plug - Pin Contacts</b>							
2	10SL-4	107-956▲					
3	10SL-3	107-957▲					
6	14S-6	107-958▲					
10	18-1	107-959▲					
<b>Panel Socket - Socket Contacts</b>							
2	10SL-4	107-963▲					
3	10SL-3	107-964▲					
6	14S-6	107-965▲					

Mftrs. List No. Sealing Nut = SBxxA, Cable Clamp = SBxxCCA

Right Angle Cable Clamp = SBxxSEC, where xx = insert type

No. of Insert Ways	Arrangement	Order Code	Price Each				
			1+	10+	25+	50+	100+
<b>Sealing Nut</b>							
3	10SL-3	105-5461▲					
<b>Cable Clamp</b>							
2	10SL-4	105-5464▲					
3	10SL-3	105-5465▲					
6	14S-6	105-5466▲					
10	18-1	105-5467▲					
19	20A48	105-5468▲					
19	22-14	105-5469▲					
37	28-21	105-5470▲					
<b>Right Angle Cable Clamp</b>							
2	10SL-4	105-5472▲					



Panel Receptacles - supplied with sealing gasket			Front Mounting				
No. of Ways	Insert Type	Overall Length	Flange Width	Panel A	Panel B (dia.)	Panel C (dia.)	Dimensions
2	10SL-4	29.5	25.7	18.2	16.13	3.4	
3	10SL-3	29.5	25.7	18.2	16.13	3.4	
6	14S-6	29.5	30.3	23.0	19.30	3.4	
10	18-1	42	35.3	27.0	25.65	3.4	
19	20A48	42	38.3	29.4	28.83	3.4	
19	22-14	42	41.3	31.8	32.00	3.4	
37	28-21	42	51.1	39.7	41.53	3.9	

Mfrs. List No. ABB00T xx ySN, where xx=insert type and y=P-pin or S-socket

No. of Ways	Insert Type	Order Code	1+	10+	25+	50+	100+
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Panel Plug - Pin Contacts							
2	CircularP	107-956▲					
3	CircularP	107-957▲					
6	CircularP	107-958▲					
10	CircularP	107-959▲					
19	CircularP	107-961▲					
37	CircularP	107-962▲					

Panel Socket - Socket Contacts							
2	CircularS	107-963▲					
3	CircularS	107-964▲					
6	CircularS	107-965▲					
10	CircularS	107-966▲					
19	CircularS	107-967▲					
37	CircularS	107-969▲					

Sealing Accessories				Maximum Cable Diameter			
No. of Ways	Insert Type	Sealing Nut	Right Angle Cable Clamp	Cable Clamp and			
2	10SL-4	7.62	7.92				
6	14S-6	10.21	11.10				
10	18-1	14.99	15.87				
19	20A48	17.93	20.62				
19	22-14	21.46	20.62				
37	28-21	30.23	23.80				

Mfrs. List No. Sealing Nut = SBxxA, Cable Clamp = SBxxCCA  
Right Angle Cable Clamp = SBxxSEC, where xx = insert type

209366

No. of Ways	Insert Type	Order Code	1+	10+	25+	50+	100+
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Sealing Nut							
2	10SL-4	105-5459▲					
3	10SL-3	105-5461▲					

Cable Clamp							
2	10SL-4	105-5464▲					
3	10SL-3	105-5465▲					
6	14S-6	105-5466▲					
10	18-1	105-5467▲					
19	20A48	105-5468▲					
19	22-14	105-5469▲					
37	28-21	105-5470▲					

Right Angle Cable Clamp							
2	10SL-4	105-5472▲					

## ABCIRP Series



The ABCIRP connector series is based on the MS Bayonet lock series of connectors conforming to MIL-C-5015 specification. They are interchangeable with all corresponding MS bayonet lock types and feature identical panel mounting dimensions. Stainless steel bayonet pins and rollers riding along the three cam tracks machined into the receptacle shell achieve secure connector coupling.



**NEW**

- Metal clip retained removable crimp contacts.
- Meets **BS9522 F0032**, **VG95234** and **NF-F-61-030**.
- operating temperature range -55°C to +125°C
- Positive lock location of contacts.

- Circlip retained removable insulator allowing for angular re-positioning.
- Rapid coupling and uncoupling. 120° rotation of the coupling nut.
- Vibration resistant, loosening of the coupling nut under vibration or shock condition is prevented.

662953

Cont Arrge	No of Ways	Shell Mfrs. Size List No.	Order Code	1+	10+	25+
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Receptacle, Panel, Pin						
18-19	10	18	ABCIRP03T1819PFSVON	186-9559▲		
20-15	10	20	ABCIRP03T2015PFSVON	186-9561▲		
22-14	19	22	ABCIRP03T2214PFSVON	186-9563▲		
28-21	37	28	ABCIRP03T2821PFSVON	186-9566▲		
32A13	13	32	ABCIRP03T32A13PFSVON	186-9568▲		
36A22	22	36	ABCIRP03T36A22PFSVON	186-9570▲		
40A35	35	40	ABCIRP03T40A35PFSVON	186-9572▲		
40A60	60	40	ABCIRP03T40A60PFSVON	186-9574▲		

Plug, Free, Socket						
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Cont Arrge	No of Ways	Shell Mfrs. Size List No.	Order Code	1+	10+	25+
------------	------------	---------------------------	------------	----	-----	-----

Receptacle, Panel, Pin						
18-19	10	18	ABCIRPSE06T1819SVON	186-9560▲		
20-15	7	20	ABCIRPSE06T2015SVON	186-9562▲		
22-14	19	22	ABCIRPSE06T2214SVON	186-9564▲		
28-21	37	28	ABCIRPSE06T2821SVON	186-9567▲		
32A13	13	32	ABCIRPSE06T32A13SVON	186-9569▲		
36A22	22	36	ABCIRPSE06T36A22SVON	186-9571▲		
40A35	35	40	ABCIRPSE06T40A35SVON	186-9573▲		
40A60	60	40	ABCIRPSE06T40A60SVON	186-9575▲		

Crimp Contact, Socket						
12	Copper	ABCIRP12KPK	186-9579▲			
12	Copper	ABCIRP12KPKP3	186-9580▲			
16	Copper	ABCIRP1620KPKP3	186-9582▲			
16	Copper	ABCIRP16KPKP3	186-9584▲			

Grommet, Small Bore						
Shell Size 16	ABCIRP1819GPS	186-9585▲				
Shell Size 12	ABCIRP2015GPS	186-9591▲				
Shell Size 12	ABCIRP2015GSS	186-9593▲				
Shell Size 12	ABCIRP36A22GPS	186-9605▲				
Shell Size 12	ABCIRP36A22GSS	186-9608▲				
Shell Size 16	ABCIRP1819GSS	186-9587▲				
Shell Size 16	ABCIRP2214GPS	186-9595▲				
Shell Size 16	ABCIRP2214GSS	186-9597▲				
Shell Size 16	ABCIRP2821GPS	186-9599▲				
Shell Size 16	ABCIRP2821GSS	186-9601▲				

Grommet, Large Bore						
Shell Size 12	ABCIRP2015GPL	186-9592▲				
Shell Size 12	ABCIRP2015GSL	186-9594▲				
Shell Size 12	ABCIRP32A13GPL	186-9603▲				
Shell Size 12	ABCIRP32A13GSL	186-9604▲				
Shell Size 12	ABCIRP36A22GPL	186-9606▲				
Shell Size 12	ABCIRP36A22GSL	186-9609▲				
Shell Size 12	ABCIRP40A35GPL	186-9610▲				
Shell Size 12	ABCIRP40A35GSL	186-9611▲				
Shell Size 16	ABCIRP1819GPL	186-9586▲				
Shell Size 16	ABCIRP1819GSL	186-9588▲				
Shell Size 16	ABCIRP2214GPL	186-9596▲				
Shell Size 16	ABCIRP2214GSL	186-9598▲				
Shell Size 16	ABCIRP2821GPL	186-9600▲				
Shell Size 16	ABCIRP2821GSL	186-9602▲				
Shell Size 16	ABCIRP40A60GPL	186-9612▲				
Shell Size 16	ABCIRP40A60GSL	186-9613▲				

Locking Back Nut						
Shell Size 18	ABBP18LBN	186-9614▲				
Shell Size 20	ABBP20LBN	186-9615▲				
Shell Size 22	ABBP22LBN	186-9616▲				
Shell Size 28	ABBP28LBN	186-9617▲				
Shell Size 32	ABBP32LBN	186-9618▲				
Shell Size 36	ABBP36LBN	186-9621▲				
Shell Size 40	ABBP40LBN	186-9622▲				

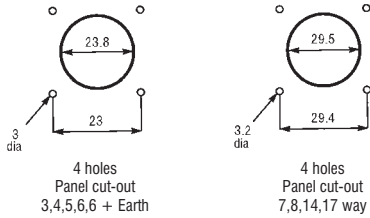
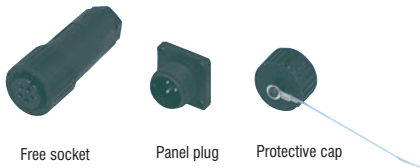
Heatshrink Adapter						
Shell Size 18	ABBP18SCHSA	186-9623▲				
Shell Size 20	ABBP20SCHSA	186-9624▲				
Shell Size 22	ABBP22SCHSA	186-9625▲				
Shell Size 28	ABBP28SCHSA	186-9626▲				
Shell Size 32	ABBP32SCHSA	186-9627▲				
Shell Size 36	ABBP36SCHSA	186-9628▲				
Shell Size 40	ABBP40SCHSA	186-9629▲				

Heatshrink Adapter R/A						
Shell Size 18	ABBP18ECHSA	186-9630▲				
Shell Size 20	ABBP20ECHSA	186-9631▲				
Shell Size 22	ABBP22ECHSA	186-9633▲				
Shell Size 28	ABBP28ECHSA	186-9634▲				
Shell Size 32	ABBP32ECHSA	186-9635▲				
Shell Size 36	ABBP36ECHSA	186-9636▲				
Shell Size 40	ABBP40ECHSA	186-9637▲				

Insert Tools						
16 AWG	P8016ITL	186-9638▲				
12 AWG	P8012ETA	186-9640▲				

Extract Tools						
16 AWG	P8016ETA	186-9639▲				
12 AWG	P8012ITL	186-9641▲				

**'CM' Series Plastic Threaded Coupling**  
MIL-C-5015-IP67



Plastic screwlocking connectors conforming to MIL-C-5015 size 14S and 20. Also connection of continuous action and proportional action valves to DIN 43 563 (draft). A panel mount plug is also available with filter function to prevent EMC. Manufactured from cost effective impact-proof glass-fibre-reinforced plastic these connectors are sealed to IP67.

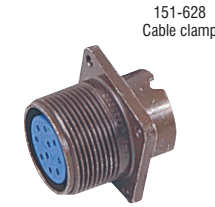
Current Rating	10A	(3,4,5,6,6+ Earth, 8 way)
	2A	(6+ Earth with filter)
	5A	(14 way)
	4A	(17 way)
Voltage Rating	50V ac/dc	
Contact Resistance	≥5mΩ	(3,4,5,6,6+ Earth)
	≤4mΩ	(7,8,14,17 way)
Filters	6 X 1nF	
Temperature Range	-40°C to +90°C	
Housing	Glass-fibre reinforced Polyamide/UL94V-1	
Contact bearer	Glass-fibre reinforced Polyamide/UL94V-1	
Contacts	Copper Alloy/Silver plated	
Protection	IP67 (DIN 40 050)	
Wire conductor size	1mm <sup>2</sup> /20AWG	(3,4,5,6,6+ Earth)
	1.5mm <sup>2</sup> /16AWG	(8,14,17 way)
Cable Gland	PG11/Cable = 8-10mm	(3,4,5,6,6+ Earth)
	PG16/Cable = 12-14mm	(7,14,17 way)
	PG13.5/Cable = 10-12mm	(8 way)
Termination	Solder	

209099

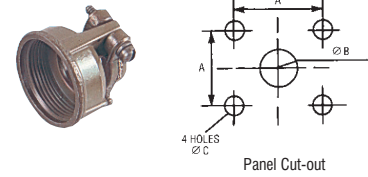
No. of Insert		Mfrs. List No.		Order Code		Price Each				
Ways	Type					1+	10+	25+	50+	100+
<b>Free Socket</b>										
4	Circular	CM06EA14S-2S	117-6397							
5	Circular	CM06EA14S-5S	117-6399							
6	Circular	CM06EA14S-6S	117-6400							
	Circular	CM06EA14S-61S	117-6401							
14	Circular	CM06EA20-27S	494-793							
17	Circular	CM06EA20-29S	494-800							
<b>Panel Plug</b>										
4	Circular	CM02E14S-2P	494-823							
5	Circular	CM02E14S-5P	494-835							
6	Circular	CM02E14S-6P	494-847							
6+E	Circular	CM02E14S-61P	494-859							
8	Circular	CM02E20-7P	494-884							
14	Circular	CM02E20-27P	494-896							
17	Circular	CM02E20-29P	494-902							
<b>Protective Cap for Panel Plug</b>										
4,5,6,6+Earth		CM02SD14S	117-6402							
7,8,14,17		CM02SD20	494-926							
<b>Gasket for Panel Plugs</b>										
Size 20		CM02D20	758-5764							



151-616  
Free plug



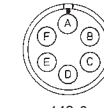
151-628  
Cable clamp



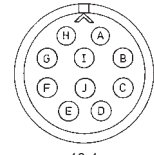
151-639  
Panel socket



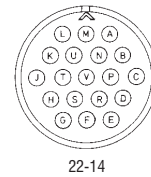
10SL-3



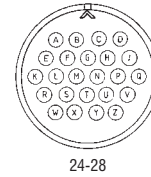
14S-6



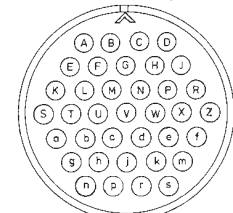
18-1



22-14



24-28



28-21

A range of industrial multipole connectors conforming to MIL-C-5015 with single keyway polarisation.

The aluminium housings are cadmium plated with an olive colour chromate finish giving a high resistance to corrosion. Inserts are diallyl phthalate, providing high arc and insulation resistance under both humidity and thermal stress.

Contact rating	13A @ 700V dc or ac peak	Contacts	Silver plated Copper Alloy
except 6 & 24 way	13A @ 250V dc or ac peak	Insulator	Diallyl Phthalate
Dielectric voltage	2000V ac (Insert 14S-6 1000V ac)	Wire conductor diameter	0.8mm to 1.4mm
Mating cycles	500		22 to 16 AWG
Temperature range	-55°C to +125°C		
Housing	Aluminium Alloy		

**Free Housings**

No. of Ways	Insert Type	Length	Coupling Diameter	Cable Clamp Maximum Wire Diameter
3	Circular	34.93	22.23	7.92
6	Circular	36.5	28.58	11.10
10	Circular	50.8	34.11	15.88
19	Circular	53.98	40.46	19.05
24	Circular	57.15	43.64	23.80
37	Circular	57.15	49.99	23.80

Mfrs. List No. 97-3106A-xx y, where xx=insert type and y=P-Pin or S-Socket

**Note:** Free plugs only mate with panel sockets  
Free sockets only mate with panel plugs

208970

No. of Ways	Insert Type	Order Code	1+	10+	25+	50+	100+
<b>Free Plug - Pin Contacts</b>							
6	CircularP	151-615	▲				
10	CircularP	151-616	▲				
19	CircularP	151-617	▲				
24	CircularP	151-618	▲				
37	CircularP	151-619	▲				
<b>Free Socket - Socket Contacts</b>							
3	CircularS	151-620	▲				
6	CircularS	151-621	▲				
10	CircularS	151-622	▲				
19	CircularS	151-623	▲				
24	CircularS	151-624	▲				
37	CircularS	151-625	▲				
<b>Cable Clamp and Bush</b>							
Fits 10SL-3 insert	Cable Clamp (Gland)	151-626					
Fits 14S-6 insert	Cable Clamp (Gland)	151-627	▲				
Fits 18-1 insert	Cable Clamp (Gland)	151-628	▲				
Fits 22-14 insert	Cable Clamp (Gland)	151-629	▲				
<b>Fits 24-28 &amp; 28-21 insert</b>							
	Cable Clamp (Gland)	151-630					

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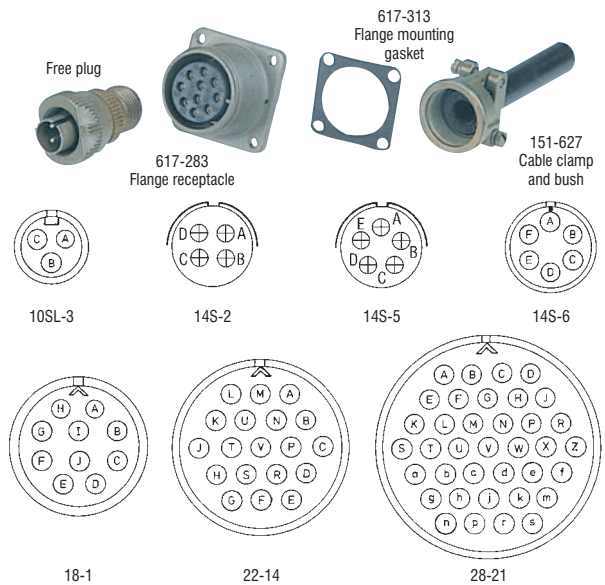
No. of Ways	Insert Type	Overall Length	Flange Width	Front Mounting Panel Cut-out Dimensions		
				A	B (dia.)	C (dia.)
3	Circular	24.21	25.4	18.24	20.62	3.25
6	Circular	23.8	30.15	23.01	23.83	3.25
10	Circular	34.11	34.93	26.97	30.18	3.25
19	Circular	34.11	41.28	31.75	36.53	3.25
24	Circular	34.11	44.45	34.93	39.67	3.95
37	Circular	34.11	50.8	39.67	46.02	3.95

Mftrs. List No. 97-3102A-xx y, where xx=insert type and y=P-Pin or S-Socket

No. of Insert		Price Each					
Ways	Type	Order Code	1+	10+	25+	50+	100+
<b>Panel Plug - Pin Contacts</b>							
3	CircularP	151-631	▲				
6	CircularP	151-632	▲				
10	CircularP	151-633	▲				
19	CircularP	151-634	▲				
24	CircularP	151-635	▲				
37	CircularP	151-636	▲				
<b>Panel Socket - Socket Contacts</b>							
6	CircularS	151-638	▲				
10	CircularS	151-639	▲				
19	CircularS	151-640	▲				
24	CircularS	151-641	▲				
37	CircularS	151-642	▲				

## Heavy Duty Threaded Coupling MIL-C-5015

**Amphenol**



- Sealed neoprene inserts
- Silver plated solder bucket contacts
- High corrosion resistant housing
- Uses 97 Series accessories, cable clamps and dust caps
- 13 amp or 23 amp rated contacts, 250 or 700V dc rated inserts
- 2 to 37 way pin or socket contacts in either half
- Department of Transport specified and approved

Contact rating	13A @ 700V dc or ac peak
except 4,5 & 6 way	13A @ 700V dc or ac peak
Dielectric withstand voltage	2800V ac (Insert 14S-4, 5 & 6 1400V ac)
Temperature range	-55°C to +125°C
Housing	Aluminium Alloy
Contacts	Silver plated Copper Alloy
Termination	Solder Bucket
Insulator	Neoprene
Wire conductor diameter	0.8 - 1.4mm 22 - 16AWG

### Free Plug and Socket Housings

No. of Ways	Insert Type	Length	Coupling Diameter	Cable Clamp Max. Wire Diameter
3	Circular	38.18	24.02	7.92
4, 5 & 6	Circular	38.18	28.52	11.10
10	Circular	50.11	33.86	15.88
19	Circular	50.11	40.34	19.05
37	Circular	56.5	49.99	23.80

**Note:** Free plugs only mate with panel sockets/Free sockets only mate with panel plugs

No. of Insert		Price Each						
Ways	Type	List No.	Order Code	1+	10+	25+	50+	100+
<b>Free Plug - Pin Contacts</b>								
3	Circular	MS3106A-10SL3P	617-039	▲				
4	Circular	MS3106A-14S2P	617-040	▲				
5	Circular	MS3106A-14S5P	617-052	▲				
6	Circular	MS3106A-14S6P	617-064	▲				
10	Circular	MS3106A-18-1P	617-076	▲				
19	Circular	MS3106A-22-14P	617-088	▲				
37	Circular	MS3106A-28-21P	617-090	▲				

No. of Insert		Price Each						
Ways	Type	List No.	Order Code	1+	10+	25+	50+	100+
<b>Free Socket - Socket Contacts</b>								
3	Circular	MS3106A-10SL3S	617-106	▲				
4	Circular	MS3106A-14S2S	617-118	▲				
5	Circular	MS3106A-14S5S	617-120	▲				
6	Circular	MS3106A-14S6S	617-131	▲				
10	Circular	MS3106A-18-1S	617-143	▲				
19	Circular	MS3106A-22-14S	617-155	▲				
37	Circular	MS3106A-28-21S	617-167	▲				

### Cable Clamp and Bush

Fits	Cable Clamp (Gland)	97-3057-1004-1	151-626					
Fits	Cable Clamp (Gland)	97-3057-1007-1	151-627	▲				
Fits	Cable Clamp (Gland)	97-3057-1010-1	151-628					
Fits	Cable Clamp (Gland)	97-3057-1012-1	151-629	▲				
Fits	Cable Clamp (Gland)	97-3057-1016-1	151-630					

### Flange Receptacles - Pin or Socket Contacts

No. of Ways	Insert Type	Overall Length	Flange Width (nom)	Front Mounting Panel Cut-out Dimensions		
				A (nom)	B (dia.)	C (dia.)
3	Circular	29.56	25.4	18.26	20.62	3.15
4, 5 & 6	Circular	29.56	30.18	23.01	23.83	3.15
10	Circular	40.69	34.93	26.97	30.18	3.15
19	Circular	40.69	41.28	31.75	36.53	3.15
37	Circular	40.67	50.8	39.67	46.02	3.84

**Note:** Flange mounting gasket to be used to give IP67 panel sealing

209135

No. of Insert		Price Each						
Ways	Type	List No.	Order Code	1+	10+	25+	50+	100+
<b>Flange Receptacle - Pin Contacts</b>								
2	CircularP	MS3102A-10SL4P	634-610	▲				
3	CircularP	MS3102A-10SL3P	617-179	▲				
4	CircularP	MS3102A-14S2P	617-180	▲				
5	CircularP	MS3102A-14S5P	617-192	▲				
6	CircularP	MS3102A-14S6P	617-209	▲				
10	CircularP	MS3102A-18-1P	617-210	▲				
19	CircularP	MS3102A-22-14P	617-222	▲				
37	CircularP	MS3102A-28-21P	617-234	▲				

### Flange Receptacle - Socket Contacts

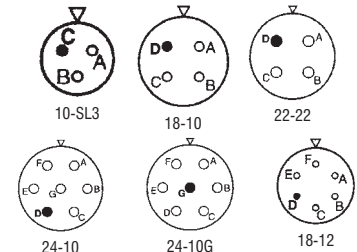
3	CircularS	MS3102A-10SL3S	617-246	▲				
4	CircularS	MS3102A-14S2S	617-258	▲				
5	CircularS	MS3102A-14S5S	617-260	▲				
6	CircularS	MS3102A-14S6S	617-271	▲				
10	CircularS	MS3102A-18-1S	617-283	▲				
19	CircularS	MS3102A-22-14S	617-295	▲				

### Flange Mounting Gasket

Fits	10SL flange	62GB-760-10	617-313	●
Fits	14S flange	62GB-760-14	617-325	●
Fits	18 flange	62GB-760-18	617-337	●

## DL 5015 Pre-Mating Earth

### First Mate Last Break (FMLB)



Designed for applications where a protective circuit from the ground contact to the shell is a safety requirement.

- Protects operators and sensitive circuits from voltage outputs
- Approved to DIN VDE 0627 06.86
- Intermateable with standard MIL-C-5015 connectors
- MIL-C-5015 dimensions and performance
- Intermateable with MS5015 and 97 Series
- IP67 protection when mated
- Typical applications factory automation, machine tools and process control

Typical application include traffic management and lights, machine tools and mining.

**NB** Pre Earth contact in plug only 24-10(G)

Specification	Size 16 Contacts	Size 12 Contacts	Size 8 Contacts
Current Rating	13A	23A	46A
Voltage Rating AC	200V rms	250V rms	250V rms
Voltage Rating DC	300V	350V	350V
Wire Size AWG	22 to 16	14 to 12	10 to 8
DWV (AC Vrms)	2000		
Insulation Resistance	≥ MΩ (DC500V)		
Shell Material	Aluminium		
Shell Finish	Black Zinc Cobalt		
Contacts	Solder Bucket		

# Circular Multipole - MIL-C-5015 - continued

## DL 5015 Pre-Mating Earth - continued

### First Mate Last Break (FMLB) - continued

Shell Size	No. Contacts	Contact Size	Mfrs List No.	Order Code	1+	10+	50+
<b>Chassis Receptacles</b>							
10SL	3	16	DL3102A10SL-3P	391-1056▲			
18	4	12	DL3102A18-10P	391-1070▲			
<b>Cable Plugs</b>							
10SL	3	16	DL3106A10SL-3S	391-1068▲			
18	4	12	DL3106A18-10S	391-1081▲			
<b>Cable Clamps</b>							
Size 10SL			DL3057-4A	391-1196▲			
Size 18			DL3057-10A	391-1202▲			

## Contacts

- For use with cable mounting sockets and panel mounting plugs above
- Gold plated crimp contacts in 16, 12, and 8 AWG

Order Multiple=10	Contact Size (AWG)	Wire Size (AWG)	Order Code	10+	100+	500+
<b>Pin Contacts</b>						
	16	16	313-4090▲			
	16	20	313-4088▲			
<b>Socket Contacts</b>						
	16	16	170-8620▲			
	16	20	313-4192▲			

## Tooling

- Complete tool range for Low Halogen Construction connectors
- Size 12 and 16 crimp tool with insertion and extraction tools
- Size 8 crimp tool is hydraulic
- Size 8 contacts do not require insertion or extraction tools

Description	Mfrs. List No.	Order Code	Price Each
<b>Crimp Tools</b>			
Size 12 and 16 contacts	AF8	890-376	
<b>Die Sets</b>			
Size 12 and 16 contacts	TH592	358-5621	
<b>Insertion Tools</b>			
Size 16 contacts	DAK32	358-5669	
<b>Extraction Tools</b>			
Size 16 contacts	DRK32	358-5682	

# Rectangular Multipole

## Compact Connector System 'ST 16/2'

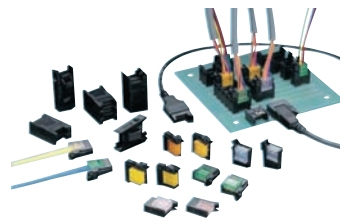


- The ST16 is the latest in connection technology for low voltage lighting application
  - 2 poles, one pluggable part Female/male parts combined in one connector
  - Secure locking feature
  - Mechanically coded
- Current rating 25A  
Voltage rating 48V a.c  
Connector housing Polyamide 6.6  
Contacts Copper Alloy, Silver  
Conductor size 0.5mm<sup>2</sup> to 2.5mm<sup>2</sup>

Order Multiple=10	Mfrs. List No.	Order Code	10+	50+	100+	250+
	93.016.0053	Rewireable Plug	117-2832●			

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# RITS Interconnection System



RITS (Remote I/O Terminal System) connectors offer easy connection method as well as total cost reduction with higher electrical reliability without special skills to work, using Chisel Press Contact. This is the new wire termination technology which can be applied to many kinds of wire from solid to multi-stranded commonly used in FA industries. RITS has three major features: Chisel, Press and Retention. The chisel shaped contact

pierces into the cable to secure a much larger contact area. The press function keeps the contact pressure for life. The retention mechanism retains the cable at higher retention force than IDC connectors. Connection is easy: Insert cable to a housing and pinch the housing with a generic tool such as pliers.

- Termination by generic tools
- Small 2mm pitch
- Two contact points structure assures high contact reliability
- Housing colours indicate applicable wire ranges

## Specifications

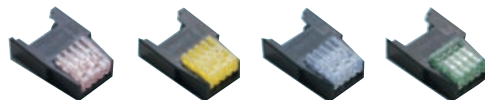
Current Rating	3A	Insulation Outside Diameter - Yellow	1 to 1.15mm
Voltage Rating	32V	Insulation Outside Diameter - Blue	1.15 to 1.35mm
Insulation Outside Diameter - Orange	0.9 to 0.6mm	Insulation Outside Diameter - Green	1.35 to 1.6mm

## Plugs



Colour	No. of Ways	Mfrs. List No.	Order Code	1+	50+	100+
Yellow	3	1473562-3	107-7392●			
Blue	3	2-1473562-3	107-7394●			
Green	3	4-1473562-3	107-7400●			
Yellow	4	1473562-4	970-1958●			
Blue	4	2-1473562-4	970-1966●			
Yellow	8	1473562-8	107-7398●			

## Sockets



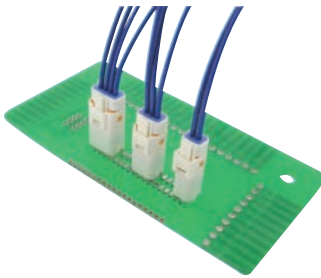
Colour	No. of Ways	Mfrs. List No.	Order Code	1+	50+	100+
Blue	3	2-1746741-3	107-7404●			
Yellow	4	1746741-4	107-7406●			
Blue	4	2-1746741-4	107-7408●			
Green	4	4-1746741-4	107-7412●			
Yellow	8	1746741-8	107-7410●			

## PCB Sockets



No. of Ways	Mfrs. List No.	Order Code	1+	50+	100+
<b>Single Row</b>					
3	1473565-3	107-7413●			
4	1473565-4	107-7414●			
8	1473565-8	107-7418●			
<b>4 Row</b>					
4	1473567-4	107-7419●			

## JWPF Waterproof Connector



- Housing Lock for secure mating
- Double Leaf Contact Construction
- IP67 Rating

Compact waterproof wire to wire / wire to Board connector system

Current Rating	3.0A AC DC
Pitch	2mm
Voltage	100V AC DC
Contacts	Phosphor Bronze - Female Brass - Male
Plating	Tin
Housing	Nylon
Applicable Wire	AWG 26 to 22 OD 1.4mm to 1.74mm
Temperature Range	-25°C to +85°C

454720

Order Multiple=5		Price Each				
No. of Ways	Mfrs. List No.	Order Code	5+	25+	50+	100+

Receptacle Housing Assembly						
2	02R-JWPF-VSLE-S	384-9806				
3	03R-JWPF-VSLE-S	384-9820				
4	04R-JWPF-VSLE-S	384-9843				

Tab Housing Assembly						
2	02T-JWPF-VSLE-S	384-9818				
3	03T-JWPF-VSLE-S	384-9831				
4	04T-JWPF-VSLE-S	384-9855				

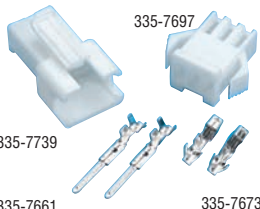
PCB Header						
2	B02B-JWPF-SK-R(LF)(SN)	132-4125				
3	B03B-JWPF-SK-R(LF)(SN)	132-4126				
4	B04B-JWPF-SK-R(LF)(SN)	132-4127				

Order Multiple=10		Price Each				
No. of Ways	Mfrs. List No.	Order Code	10+	100+	500+	1K+
Socket	SWPR-001T-P025	384-9788				
Tab	SWPT-001T-025	384-9790				

Order Multiple=10		Price Each				
No. of Ways	Mfrs. List No.	Order Code	10+	100+	500+	1K+
Crimp Tool WC-JWPF		NEW 434-1430				
Extraction Tool		NEW 434-1442				

## SM Connectors, 2.5mm Pitch

### Crimp Style Wire-to-Wire



- Wire to wire connectors
- 2.5mm pitch
- High contact pressure
- All contacts are individually surrounded by housing walls
- Protection from deformation or mismatch
- Locking mechanism
- CSA approved
- UL Recognised

Current rating	3A AC, DC	Contact resistance	10mΩ max
Voltage rating	250V AC, DC	Temperature range	-25°C to +85°C
Withstanding voltage	1.5kVac @ 1 min	Housing	White, Nylon 66, <b>UL94V-0</b>
Insulation resistance	MΩ min	Crimp contacts	Phosphor Bronze, Tin

Wire Size	AWG	Insulation Dia.	O.D. (mm)	Mfrs. List No.	Order Code
0.08-0.33	22-28	1.2-1.8	1.2-1.8	BYM-001T-P0.6	335-7661
0.08-0.33	22-28	1.2-1.8	1.2-1.8	BHF-001T-0.8BS	335-7673

Mfrs. List No.	SMP-02V-NC = 335-7685	SMP-03V-NC = 335-7697	SMP-04V-NC = 335-7703
	SMP-06V-NC = 335-7715	SMR-02V-N = 335-7727	SMR-03V-N = 335-7739
	SMR-04V-N = 335-7740	SMR-06V-N = 335-7752	BYM-001T-P0.6 = 335-7661
	BHF-001T-0.8BS = 335-7673	WC-122 = 335-7958	WC-121 = 335-7946

209317

Order Multiple=5		Price Each				
No. of Ways	Order Code	5+	10+	50+	250+	500+

Housing - Socket Contacts						
2	335-7685					
3	335-7697					
4	335-7703					
6	335-7715					

Housing - Pin Contacts						
2	335-7727					
3	335-7739					
4	335-7740					
6	335-7752					

Order Multiple=5		Price Each				
No. of Ways	Order Code	5+	10+	50+	250+	500+
<b>Order Multiple =10</b>						
Pin Contacts	335-7661		10+	50+	100+	500+ 1K+
Socket Contacts	335-7673					
<b>Order Multiple =1</b>						
Crimp Tools		1+	5+			
Pin Contact	335-7946					
Socket Contact	335-7958					

## Commoning Block



- 10 way multiple commoning connector
- Tin plated brass terminals
- Polyester housing

236525

Order Multiple=1		Price Each			
Mfrs. List No.	Order Code	1+	50+	100+	
Block	07-01-7101	393-5711			

Order Multiple=10		Price Each		
Terminals		10+	100+	500+
0.5-0.75mm	05-02-0048	393-5735		
1.0-1.5mm	05-02-0050	393-5723		

## Micro-Fit 3.0™ Wire-to-Wire Plugs & Receptacles



### 3.0mm Pitch



Mfrs. List No:	Free Receptacle =	43025-XX00
	Panel Mounting =	43020-XX00, where XX = No of ways
	Inline Receptacle =	43645-XX00
	Inline Plugs - Panel Mount =	43640-XX00
	Inline Plugs - Free Hanging =	43640-XX01

209152

Order Multiple=10		Price Each				
No. of Ways	Order Code	10+	100+	250+	500+	1K+

Free Receptacle - Accepts socket contacts - Dual Row						
2	672-889					
4	672-890					
6	672-907					
8	672-919					
10	672-920					
12	629-285					
14	629-297					
16	996-1321					
18	996-1330					
20	629-303					
22	996-1348					
24	629-315					

Inline Receptacle - Accepts socket contacts - Single Row						
2	307-6015					
3	307-6027					
4	307-6039					
6	307-6052					

Panel Mount Plug - Accepts pin contacts - Dual Row						
2	672-932					
4	672-944					
6	672-956					
8	672-968					
10	672-970					
12	629-327					
14	634-694					
16	996-1283					
18	996-1305					
20	634-700					
24	634-712					

Inline Plugs - Panel Mount - Accepts pin contacts - Single Row						
2	307-6064					
3	307-6076					

# Rectangular Multipole - continued

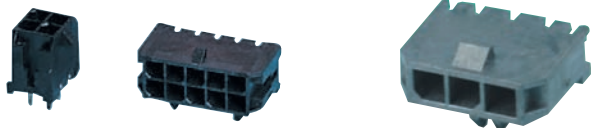
## Micro-Fit 3.0™ Wire-to-Wire Plugs & Receptacles - continued

3.0mm Pitch - continued

Order Multiple=10		Price Each				
No. of Ways	Order Code	10+	100+	250+	500+	1K+
<b>Inline Plugs - Free Hanging - Accepts pin contacts - Single Row</b>						
2	307-6118					
3	307-6120					
4	307-6131					
5	307-6143					
6	307-6155					

## Micro-Fit 3.0™ Straight and 90° Wire-to-Board Headers

3.0mm Pitch



Mfrs. List No. Straight header = 43045-XX12, 90° Header = 43045-XX00, SMT header single row RA = 43650-XX12, where XX = No. of Ways PCB header single row RA = 43650-XX00, where XX = No. of Ways

249744

Order Multiple=10		Price Each				
No. of Ways	Order Code	10+	100+	250+	500+	1K+
<b>Straight Header - Pin Contacts - Dual Row</b>						
2	973-3000					
4	101-2247					
6	101-2248					
8	101-2249					
10	101-2250					
12	973-2950					
14	973-2969					
16	996-1356					
20	101-2243					
24	101-2244					
<b>90° Header - Pin Contacts - Dual Row</b>						
2	101-2251					
4	973-3019					
6	101-2252					
8	101-2254					
10	101-2255					
12	973-2977					
14	973-2985					
16	996-1380					
20	973-2993					
24	101-2245					
<b>RA PCB Header - Single Row - With Board Locks</b>						
3	101-2231					
4	101-2232					
6	121-1000					

## Micro-Fit 3.0™ Wire-to-Board Headers

3.0mm Pitch



Mfrs. List No. Straight Header = 43045xx18, 90° Header = 43045xx09, where xx = No. of ways

- Surface mount wire-to-board header
- Solder tabs provide retention to PCB
- Locking ramp for secure mating retention to a dual row receptacle (43025)
- Fully isolated terminals to protect contacts from damage
- Polarized to receptacle to prevent mismatching

414422

No. of Ways		Price Each				
Order Code	10+	100+	250+	500+	1K+	
<b>Header - Vertical</b>						
2	996-1410					
4	996-1429					
6	996-1437					
8	996-1445					

No. of Ways	Order Code	10+	100+	250+	500+	1K+
<b>Header - 90°</b>						
2	996-1534					
4	996-1542					
6	996-1550					
8	996-1569					
10	996-1577					
14	996-1593					
20	996-1623					

## Crimp Terminals for Micro-Fit 3.0™



Contacts phosphor bronze, tin plated

	Wire Size (AWG)	Wire Size (mm)	Insulation Diameter (max)	Mfrs. List No.	Order Code
Pin	20-24	0.2-0.5	1.85	43031-0007	101-2256
Pin	26-30	0.05-0.12	1.52	43031-0010	973-3043
Socket	24-20	0.2-0.5	1.85	43030-0007	973-3027
Socket	26-30	0.05-0.12	1.52	43030-0010	973-3035

209151

100 Per Pack		Price Per Pack			
AWG	Order Code	1+	5+	10+	25+
Pin 20-24	101-2256				
Pin 26-30	973-3043				
Socket 24-20	973-3027				
Socket 26-30	973-3035				

## Tooling for Micro-Fit 3.0™



Extraction tool  
Ratchet crimp tool

- Full cycling parallel action ratchet crimp tool with manual release and contact retaining bar
- Supplied with full instructions

Mfrs. List No. 63819-0000=160-2635, 1103-0043=658-649

209163

Terminal Size (AWG)	Order Code	Price Each
20-30	160-2635	1+

## Micro-Fit 3.0™ Cable Assemblies



### Double Ended Receptacle



- Fully polarized housing prevents accidental mismatching
- Positive latch prevents accidental disconnects
- Locking tang on terminal secures terminals in the housings
- 26 AWG jacketed cable

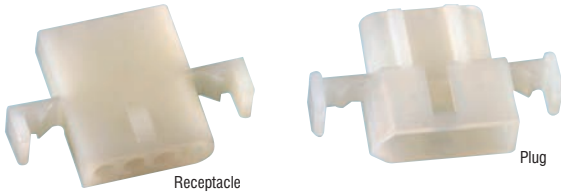
Voltage	250V	Operating Temperature	-40°C to +105°C
Current Rating	5A	Operating Temperature MAX	+105

476310

No. Of Ways	Length (M)	Mfrs. List No.	Order Code	1+	10+	50+	+	+
2	3	79516-1023	139-1528					
4	1	79516-1041	139-1530					
4	3	79516-1043	139-1531					
6	1	79516-1061	139-1533					
6	3	79516-1063	139-1534					

## Standard 0.062" Pin and Socket Plugs and Receptacles

**molex**



Receptacle

Plug

- Housing may be used to accommodate either pin or socket contacts
- Fully polarised to prevent mismatching

- Friction lock for secure mating
- Available in 2 through to 12 way
- Approvals: **CSA, & UL** Recognised

Current 5A  
 Rated voltage 250V  
 Temperature Range -40°C to +105°C  
 Housing Material PA Polyamide (Nylon 66), **UL94V-2**

Colour Natural  
 Contact Material Brass, with Tin finish  
 Pitch 3.68mm

417801

Order Multiple=5		Mftrs.	Price Each			
No. of Ways	List No.	Order Code	5+	50+	100+	500+

Panel Mount Plugs - Accepts pin or socket contacts						
2	3062024	107-9897	●			
4	3062041	107-9899	●			

Receptacle - Accepts pin or socket contacts						
2	3061022	107-9891	●			
4	03-06-1041	107-9893	●			
9	03-06-1091	107-9895	●			

Order Multiple = 10			10+	100+	500+	1K+
---------------------	--	--	-----	------	------	-----

Pin Contacts						
24-30AWG Pin Contact	02-06-2132	107-9903	●			
18-24AWG Pin Contact	02-06-2103	107-9887	●			

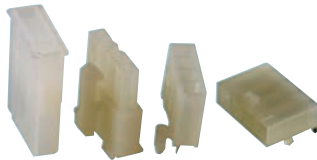
Socket Contacts						
24-30AWG Socket Contact	02-06-1132	107-9904	●			
18-24AWG Socket Contact	02-06-1103	107-9889	●			

Tooling						
Crimp Tool, 18-24AWG	63819-1300	157-2014	●			1+
Insertion Tool	11-02-0001	107-9909	●			
Extraction Tool	11-03-0002	107-9908	●			

## Mini-Fit Jr.™ Single Row Crimp Housings & PCB Headers

**molex**

4.20mm Pitch



- Peg-mounted for increased board retention
- Low profile for space constraints
- Positive housing locks
- Fully isolated terminals to protect contacts from damage

Mftrs. List No. Receptacle = 390114xx0, Plug = 39014xx6, Header = 39302xx5, R/A Header = 39303xx5, where xx=No. of ways

414411

No. of Ways		Price Each				
Order Code	1+	100+	250+	500+	1K+	

Receptacle - Accepts Socket Contacts						
3	996-3480	●				
4	996-3499	●				
5	996-3502	●				

Plug - Accepts Pin Contacts						
3	996-3510	●				
4	996-3529	●				
5	996-3537	●				

Right Angle Header - Pin Contacts						
3	996-3545	●				
4	996-3553	●				
5	996-3561	●				

Header - Pin Contacts						
3	996-3570	●				
4	996-3588	●				
5	996-3596	●				

## Micro-Fit Jr.™ Double Row Crimp Housings & PCB Plugs

**molex**

4.20mm Pitch



Free Receptacle

Panel Mount Plug

**Note** - Choice of UL94V-0 or UL94V-2

Mftrs. List No. Free Receptacle=39-01-2xx0, Panel Mount Plug=39-01-2xx1, where xx=No. of ways

208972

No. of Ways	Order Code	1+	100+	250+
-------------	------------	----	------	------

Free Receptacle - Accepts Socket Contacts - UL94V-2				
2	151-866	●		
4	151-867	●		
6	151-868	●		
8	151-869	●		
10	151-870	●		
12	151-871	●		
14	996-3243	●		
16	413-8399	●		
18	996-3251	●		
20	413-8405	●		
22	996-3260	●		
24	413-8417	●		

Free Receptacle - Accepts Socket Contacts - UL94V-0				
2	169-7117	●		
4	169-7118	●		
6	169-7119	●		
8	169-7120	●		
10	169-7121	●		
12	169-7123	●		
14	169-7124	●		

Strain Relief - For Free Receptacles - UL94V-2				
8	307-5722	●		

Panel Mount Plug - Accepts Pin Contacts - UL94V-2				
2	151-872	●		
4	151-873	●		
6	151-874	●		
8	151-875	●		
10	151-876	●		
12	151-877	●		
14	996-3278	●		
16	413-8429	●		
18	996-3286	●		
20	413-8430	●		
22	996-3294	●		
24	413-8442	●		

Panel Mount Plug - Accepts Pin Contacts - UL94V-0				
2	169-7125	●		
4	169-7126	●		
6	169-7127	●		
8	169-7128	●		
10	169-7129	●		
12	169-7130	●		
14	169-7131	●		

## Mini-Fit Jr.™ Double Row PCB Headers

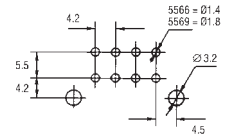
**molex**

4.20mm Pitch



Right Angle Header

Vertical Header



PCB drilling pattern (omit mounting holes for straight header)

Mftrs. List No. Straight header=39-28-1xx3, 90° header=39-29-1xx8, where xx=No. of ways

**Note** - Choice of UL94V-0 or UL94V-2 headers

208973

No. of Ways	Order Code	1+	100+	250+	500+	1K+
-------------	------------	----	------	------	------	-----

Vertical Headers - Accepts Pin Contacts - UL94V-2						
2	973-2080	●				
4	973-2098	●				
6	973-2101	●				
8	973-2110	●				
10	973-2136	●				
12	973-2144	●				
14	996-3308	●				
16	973-4244	●				
18	996-3316	●				
20	973-4252	●				
22	996-3324	●				
24	973-4260	●				

Vertical Headers - Accepts Pin Contacts - UL94V-0						
2	169-7108	●				
4	169-7111	●				
6	169-7112	●				
8	169-7113	●				

# Rectangular Multipole - continued

## Mini-Fit Jr.™ Double Row PCB Headers - continued

### 4.20mm Pitch - continued

No. of Ways	Order Code	Price Each				
		1+	100+	250+	500+	1K+
<b>Vertical Headers - Accepts Pin Contacts - UL94V-0</b>						
10	169-7114	●				
12	169-7115	●				
14	169-7116	●				
<b>Right Angle Headers, with Flanges - UL94V-2</b>						
2	101-2166	●				
4	973-2152	●				
6	101-2167	●				
8	973-2160	●				
10	973-2179	●				
12	973-2187	●				
14	996-3332	●				
16	973-4279	●				
18	996-3340	●				
20	973-4287	●				
24	973-4295	●				

## Mini-Fit Jr.™ Double Row Headers with Mounting Pegs

### 4.20mm Pitch



- Peg-mounted for increased board retention
- Low profile for space constraints
- Positive housing locks
- Fully isolated terminals to protect contacts from damage
- Mates with : 5557 dual row receptacle

**Note** - Choice of UL94V-0 or UL94V-2 headers

Mfrs. List No. 39301xx0, where xx=No. of ways

No. of Ways	Order Code	Price Each				
		1+	100+	250+	500+	1K+
<b>Right Angle Headers - Accepts Pin Contacts - UL94V-2</b>						
2	996-3367	●				
4	996-3375	●				
6	996-3383	●				
8	996-3391	●				
10	996-3405	●				
12	996-3413	●				
14	996-3421	●				
16	996-3430	●				
18	996-3448	●				
20	996-3456	●				
22	996-3464	●				
24	996-3472	●				
<b>Right Angle Headers - Accepts Pin Contacts - UL94V-0</b>						
2	169-7132	●				
4	169-7133	●				
6	169-7135	●				
8	169-7136	●				
10	169-7137	●				
12	169-7138	●				
14	169-7139	●				

## Crimp Terminals for Mini-Fit Jr.™ Single & Double Row Housings



Contacts	Wire Size		Insulation Diameter (max)	Mfrs. List No.	Order Code
	(AWG)	(mm <sup>2</sup> )			
Pin	16	1.29	1.8-3.1	39-00-0082	973-2667
Pin	18-24	0.24-0.82	1.3-3.1	39-00-0041	101-2168
Socket	16	1.29	1.8-3.1	39-00-0078	973-2675
Socket	18-24	0.24-0.82	1.3-3.1	39-00-0041	101-2168

AWG	Order Code	Price Per Pack			
		1+	5+	10+	25+
Pin 16	973-2667	●			
Pin 18-24	101-2168	●			
Socket 16	973-2675	●			
Socket 18-24	973-2195	●			

## Tooling for Mini-Fit Jr.™



A full cycling parallel action ratchet crimp tool with manual release and a contact retaining bar. Suitable for crimping Mini-Fit Junior terminals, 5556 and 5558 16-28 AWG. Supplied with full instructions.

AWG Range	Mfrs. List No.	Order Code	Price Each
			1+
<b>Crimp Tool</b>			
16-24 AWG	63819-0900	160-2636	●
22-28 AWG	63819-1000	160-2637	●
<b>Extraction Tool</b>			
-	11-03-0044	525-080	

## 3mm Pitch Dual Row Micro Fit Connector MF 3.0 Series



- Current rating: 5A
- Voltage rating: 250V AC/DC
- Colour: Black
- Insulator material: Nylon 6.6
- Contact material: Phosphor bronze
- Contact plating: Tin

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			10+	100+	250+	500+
<b>Receptacle Housing</b>						
2	MF30-HFD1-02	183-9902	●			
4	MF30-HFD1-04	183-9903	●			
6	MF30-HFD1-06	183-9904	●			
8	MF30-HFD1-08	183-9905	●			
10	MF30-HFD1-10	183-9906	●			
12	MF30-HFD1-12	183-9907	●			
14	MF30-HFD1-14	183-9908	●			
16	MF30-HFD1-16	183-9909	●			
18	MF30-HFD1-18	183-9910	●			
20	MF30-HFD1-20	183-9911	●			
22	MF30-HFD1-22	183-9912	●			
24	MF30-HFD1-24	183-9914	●			
<b>Plug Housing</b>						
2	MF30-HMD1-02	183-9915	●			
4	MF30-HMD1-04	183-9916	●			
6	MF30-HMD1-06	183-9917	●			
8	MF30-HMD1-08	183-9918	●			
10	MF30-HMD1-10	183-9919	●			
12	MF30-HMD1-12	183-9920	●			
14	MF30-HMD1-14	183-9921	●			
16	MF30-HMD1-16	183-9922	●			
18	MF30-HMD1-18	183-9923	●			
20	MF30-HMD1-20	183-9924	●			
22	MF30-HMD1-22	183-9926	●			
24	MF30-HMD1-24	183-9927	●			
<b>Header - SMT - Tab</b>						
2	MF30-SVE1-02	183-9930	●			
4	MF30-SVE1-04	183-9931	●			
6	MF30-SVE1-06	183-9932	●			
8	MF30-SVE1-08	183-9933	●			
10	MF30-SVE1-10	183-9934	●			
12	MF30-SVE1-12	183-9935	●			
14	MF30-SVE1-14	183-9936	●			
16	MF30-SVE1-16	183-9938	●			
18	MF30-SVE1-18	183-9939	●			
20	MF30-SVE1-20	183-9940	●			
22	MF30-SVE1-22	183-9941	●			
24	MF30-SVE1-24	183-9942	●			
<b>Header - SMT - Clip</b>						
2	MF30-SVC1-02	183-9943	●			
4	MF30-SVC1-04	183-9944	●			
6	MF30-SVC1-06	183-9945	●			
8	MF30-SVC1-08	183-9946	●			
10	MF30-SVC1-10	183-9947	●			
12	MF30-SVC1-12	183-9948	●			



No. of Ways	Mftrs. List No.	Order Code	10+	100+	250+	500+
<b>Header - SMT - Clip</b>						
14	MF30-SVC1-14	183-9951				
16	MF30-SVC1-16	183-9952				
18	MF30-SVC1-18	183-9953				
20	MF30-SVC1-20	183-9954				
22	MF30-SVC1-22	183-9955				
24	MF30-SVC1-24	183-9956				
<b>Header - DIP - Peg</b>						
2	MF30-DVP1-02	183-9957				
4	MF30-DVP1-04	183-9958				
6	MF30-DVP1-06	183-9959				
8	MF30-DVP1-08	183-9960				
10	MF30-DVP1-10	183-9961				
12	MF30-DVP1-12	183-9963				
14	MF30-DVP1-14	183-9964				
16	MF30-DVP1-16	183-9965				
18	MF30-DVP1-18	183-9966				
20	MF30-DVP1-20	183-9967				
22	MF30-DVP1-22	183-9968				
24	MF30-DVP1-24	183-9969				
<b>Header - Right Angle - SMT - Tab</b>						
2	MF30-SHE1-02	183-9970				
4	MF30-SHE1-04	183-9971				
6	MF30-SHE1-06	183-9972				
8	MF30-SHE1-08	183-9973				
10	MF30-SHE1-10	183-9975				
12	MF30-SHE1-12	183-9976				
14	MF30-SHE1-14	183-9977				
16	MF30-SHE1-16	183-9978				
18	MF30-SHE1-18	183-9979				
20	MF30-SHE1-20	183-9980				
22	MF30-SHE1-22	183-9981				
24	MF30-SHE1-24	183-9982				
<b>Header - Right Angle - SMT - Clip</b>						
2	MF30-SHC1-02	183-9983				
4	MF30-SHC1-04	183-9984				
6	MF30-SHC1-06	183-9985				
8	MF30-SHC1-08	183-9987				
10	MF30-SHC1-10	183-9988				
12	MF30-SHC1-12	183-9989				
14	MF30-SHC1-14	183-9990				
16	MF30-SHC1-16	183-9991				
18	MF30-SHC1-18	183-9992				
20	MF30-SHC1-20	183-9993				
22	MF30-SHC1-22	183-9994				
24	MF30-SHC1-24	183-9995				
<b>Header - Right Angle - SMT - Peg</b>						
2	MF30-SHP1-02	183-9996				
4	MF30-SHP1-04	183-9997				
6	MF30-SHP1-06	183-9999				
8	MF30-SHP1-08	184-0000				
10	MF30-SHP1-10	184-0001				
12	MF30-SHP1-12	184-0002				
14	MF30-SHP1-14	184-0003				
16	MF30-SHP1-16	184-0004				
18	MF30-SHP1-18	184-0005				
20	MF30-SHP1-20	184-0006				
22	MF30-SHP1-22	184-0007				
24	MF30-SHP1-24	184-0008				
<b>Header - Right Angle - DIP - Peg</b>						
2	MF30-DHP1-02	184-0011				
4	MF30-DHP1-04	184-0012				
6	MF30-DHP1-06	184-0013				
8	MF30-DHP1-08	184-0014				
10	MF30-DHP1-10	184-0015				
12	MF30-DHP1-12	184-0016				
14	MF30-DHP1-14	184-0017				
16	MF30-DHP1-16	184-0018				
18	MF30-DHP1-18	184-0019				
20	MF30-DHP1-20	184-0020				
22	MF30-DHP1-22	184-0021				
24	MF30-DHP1-24	184-0023				
			100+	500+	1K+	2K5+
<b>Crimp Contacts</b>						
Socket	MF30-HF1T	183-9928				
Pin	MF30-HM1T	183-9929				

## 4.2mm Pitch Mini Pitch Connector

### MF4.2 Series



- Colour: Transparent white
- Current rating: 7A
- Voltage rating: 250V AC/DC
- Insulator material: Nylon 6.6
- Contact material: Brass
- Contact plating: Tin

637870

No. of Ways	Mftrs. List No.	Order Code	10+	50+	100+	250+
<b>Plug Housing</b>						
2	MF42-HM-02	184-0024				
4	MF42-HM-04	184-0025				
6	MF42-HM-06	184-0026				
8	MF42-HM-08	184-0027				
10	MF42-HM-10	184-0028				
12	MF42-HM-12	184-0029				
14	MF42-HM-14	184-0030				
16	MF42-HM-16	184-0031				
18	MF42-HM-18	184-0032				
20	MF42-HM-20	184-0033				
22	MF42-HM-22	184-0035				
24	MF42-HM-24	184-0036				
<b>Receptacle Housing</b>						
2	MF42-HF-02	184-0037				
4	MF42-HF-04	184-0038				
6	MF42-HF-06	184-0039				
8	MF42-HF-08	184-0040				
10	MF42-HF-10	184-0041				
12	MF42-HF-12	184-0042				
14	MF42-HF-14	184-0043				
16	MF42-HF-16	184-0044				
18	MF42-HF-18	184-0045				
20	MF42-HF-20	184-0047				
22	MF42-HF-22	184-0048				
24	MF42-HF-24	184-0049				
<b>Header - DIP</b>						
2	MF42-SD-02	184-0052				
4	MF42-SD-04	184-0053				
6	MF42-SD-06	184-0054				
8	MF42-SD-08	184-0055				
10	MF42-SD-10	184-0056				
12	MF42-SD-12	184-0057				
14	MF42-SD-14	184-0059				
16	MF42-SD-16	184-0061				
18	MF42-SD-18	184-0062				
20	MF42-SD-20	184-0063				
22	MF42-SD-22	184-0064				
24	MF42-SD-24	184-0065				
<b>Header - DIP - Peps</b>						
2	MF42-SP-02	184-0066				
4	MF42-SP-04	184-0067				
6	MF42-SP-06	184-0068				
8	MF42-SP-08	184-0069				
10	MF42-SP-10	184-0070				
12	MF42-SP-12	184-0072				
14	MF42-SP-14	184-0073				
16	MF42-SP-16	184-0074				
18	MF42-SP-18	184-0075				
20	MF42-SP-20	184-0076				
22	MF42-SP-22	184-0077				
24	MF42-SP-24	184-0078				
<b>Header - Right Angle - DIP</b>						
2	MF42-RD-02	184-0079				
4	MF42-RD-04	184-0080				
6	MF42-RD-06	184-0081				
8	MF42-RD-08	184-0082				
10	MF42-RD-10	184-0084				
12	MF42-RD-12	184-0085				
14	MF42-RD-14	184-0086				
16	MF42-RD-16	184-0087				
18	MF42-RD-18	184-0088				
20	MF42-RD-20	184-0089				
22	MF42-RD-22	184-0090				
24	MF42-RD-24	184-0091				
<b>Header - Right Angle - DIP - Peps</b>						
2	MF42-RP-02	184-0092				
4	MF42-RP-04	184-0093				
6	MF42-RP-06	184-0094				
8	MF42-RP-08	184-0096				

# Rectangular Multipole - continued

## 4.2mm Pitch Mini Pitch Connector - continued

### MF4.2 Series - continued

No. of Ways	Mftrs. List No.	Order Code	Price Each			
			10+	50+	100+	250+
<b>Header - Right Angle - DIP - Pegs</b>						
10	MF42-RP-10	184-0097				
12	MF42-RP-12	184-0098				
14	MF42-RP-14	184-0099				
16	MF42-RP-16	184-0100				
18	MF42-RP-18	184-0102				
20	MF42-RP-20	184-0103				
22	MF42-RP-22	184-0104				
24	MF42-RP-24	184-0105				
<b>Header - Right Angle - DIP - Ear Hole</b>						
2	MF42-RE-02	184-0106				
4	MF42-RE-04	184-0107				
6	MF42-RE-06	184-0108				
8	MF42-RE-08	184-0109				
10	MF42-RE-10	184-0110				
12	MF42-RE-12	184-0111				
14	MF42-RE-14	184-0112				
16	MF42-RE-16	184-0114				
18	MF42-RE-18	184-0115				
20	MF42-RE-20	184-0116				
22	MF42-RE-22	184-0117				
24	MF42-RE-24	184-0118				
<b>Crimp Contacts</b>						
Pin	MF42-HMT	184-0050				
Socket	MF42-HFT	184-0051				

## 3.0mm Micro Power Connectors

### WR-MPC3



**NEW**

The Micro power connector solution From Würth Elektronik is designed to meet the customer requirements when high current is needed and limited space. Lots of wire-to-wire to board configurations are available.

- 3.0mm Pitch
- 1 Row or 2 Rows
- Current Rating up to 5A per contact
- 250V Working voltage
- PCB (THT & SMT) and cable connectors
- Positive housing lock
- Contacts insulated from each other
- 2 to 24 Pin connectors available
- Different PCB fixation: SMT or THT clips
- Glow wire tested, meets the requirement of IEC 60695-2-11 / DIN EN 60335-1, chapter 30.2.1

657907

No. of Ways	Mftrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
<b>Header, Vertical, Single Row</b>						
2	66200211122	211-3504				
3	66200311122	211-3505				
4	66200411122	211-3506				
5	66200511122	211-3507				
6	66200611122	211-3509				
7	66200711122	211-3511				
8	66200811122	211-3512				
9	66200911122	211-3513				
10	66201011122	211-3514				
11	66201111122	211-3515				
12	66201211122	211-3516				
<b>Header, Right Angle, Single Row</b>						
2	662102145021	211-3517				
3	662103145021	211-3518				
4	662104145021	211-3519				
5	662105145021	211-3520				
6	662106145021	211-3522				
7	662107145021	211-3523				
8	662108145021	211-3524				
9	662109145021	211-3525				
10	662110145021	211-3526				
11	662111145021	211-3527				
12	662112145021	211-3528				
<b>Receptacle, Vertical, Single Row</b>						
2	662002013322	211-3529				
3	662003013322	211-3530				
4	662004013322	211-3531				
5	662005013322	211-3532				

No. of Ways	Mftrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
<b>Receptacle, Vertical, Single Row</b>						
6	662006013322	211-3534				
7	662007013322	211-3535				
8	662008013322	211-3536				
9	662009013322	211-3537				
10	662010013322	211-3538				
11	662011013322	211-3539				
12	662012013322	211-3540				
<b>Header, Vertical, Dual Row</b>						
2	66200221122	164-1810				
4	66200421122	164-1811				
6	66200621122	164-1812				
8	66200821122	164-1813				
10	66201021122	164-1814				
12	66201221122	211-3412				
14	66201421122	211-3413				
16	66201621122	211-3414				
18	66201821122	211-3415				
20	66202021122	211-3416				
22	66202221122	211-3418				
24	66202421122	211-3419				
<b>Header, Vertical, Dual Row, SMT, with THT Retention Clip</b>						
2	662002235922	211-3420				
4	662004235922	211-3421				
6	662006235922	211-3422				
8	662008235922	211-3423				
10	662010235922	211-3424				
12	662012235922	211-3425				
14	662014235922	211-3426				
16	662016235922	211-3427				
18	662018235922	211-3428				
20	662020235922	211-3431				
22	662022235922	211-3432				
24	662024235922	211-3433				
<b>Header, Vertical, Dual Row, SMT, with SMT Fitting Nail</b>						
2	662002231822	164-1816				
4	662004231822	164-1817				
6	662006231822	164-1818				
8	662008231822	164-1819				
10	662010231822	164-1820				
12	662012231822	211-3434				
14	662014231822	211-3435				
16	662016231822	211-3436				
18	662018231822	211-3437				
20	662020231822	211-3438				
22	662022231822	211-3439				
24	662024231822	211-3440				
<b>Header, Right Angle, Dual Row, with Plastic Pegs</b>						
2	66200221022	164-1821				
4	66200421022	164-1822				
6	66200621022	164-1823				
8	66200821022	164-1824				
10	66201021022	164-1825				
12	66201221022	211-3441				
14	66201421022	211-3443				
16	66201621022	211-3444				
18	66201821022	211-3445				
20	66202021022	211-3446				
22	66202221022	211-3447				
24	66202421022	211-3449				
<b>Header, Right Angle, Dual Row, SMT, with Plastic Pegs</b>						
2	662002236022	211-3450				
4	662004236022	211-3451				
6	662006236022	211-3452				
8	662008236022	211-3453				
10	662010236022	211-3455				
12	662012236022	211-3456				
14	662014236022	211-3457				
16	662016236022	211-3458				
18	662018236022	211-3459				
20	662020236022	211-3460				
22	662022236022	211-3461				
24	662024236022	211-3462				
<b>Header, Right Angle, Dual Row, SMT, with THT Retention Clip</b>						
2	662002230822	211-3463				
4	662004230822	211-3464				
6	662006230822	211-3465				
8	662008230822	211-3467				
10	662010230822	211-3468				
12	662012230822	211-3469				
14	662014230822	211-3470				

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	
<b>Header, Right Angle, Dual Row, SMT, with THT Retention Clip</b>							
16	662016230822	211-3471	●				
18	662018230822	211-3472	●				
20	662020230822	211-3473	●				
22	662022230822	211-3474	●				
24	662024230822	211-3475	●				
<b>Header, Right Angle, Dual Row, SMT, with SMT Fitting Nail Clip</b>							
2	662002231722	164-1826	●				
4	662004231722	164-1828	●				
6	662006231722	164-1829	●				
8	662008231722	164-1830	●				
10	662010231722	164-1831	●				
12	662012231722	211-3476	●				
14	662014231722	211-3477	●				
16	662016231722	211-3479	●				
18	662018231722	211-3481	●				
20	662020231722	211-3482	●				
22	662022231722	211-3483	●				
24	662024231722	211-3484	●				
<b>Plug, Vertical, Dual Row, with Panel Mounting Ears</b>							
2	66200221822	211-3485	●				
4	66200421822	211-3486	●				
6	66200621822	211-3487	●				
8	66200821822	211-3488	●				
12	66201221822	211-3489	●				
14	66201421822	211-3490	●				
16	66201621822	211-3492	●				
18	66201821822	211-3493	●				
20	66202021822	211-3494	●				
22	66202221822	211-3495	●				
24	66202421822	211-3496	●				
<b>Receptacle, Vertical, Dual Row</b>							
2	662002113322	164-1833	●				
4	662004113322	164-1834	●				
6	662006113322	164-1835	●				
8	662008113322	164-1836	●				
10	662010113322	164-1837	●				
12	662012113322	211-3497	●				
14	662014113322	211-3498	●				
16	662016113322	211-3499	●				
18	662018113322	211-3500	●				
20	662020113322	211-3501	●				
22	662022113322	211-3502	●				
24	662024113322	211-3503	●				
<b>Crimp Contacts</b>							
Pin, 20-24AWG	66200213722DEC	211-3541	●	10+	100+	500+	1K+
Socket, 20-24AWG	66200113722DEC	164-1838	●				
<b>Crimp Leads, Pin - Pin</b>							
300mm, 20AWG	662262220030	211-3327	●	1+	10+	50+	100+
150mm, 24AWG	662200124015	211-3328	●				
<b>Crimp Leads, Socket - Socket</b>							
300mm, 20AWG	662162120030	211-3329	●				
150mm, 24AWG	662100124015	211-3330	●				
<b>Die, for MPC3 Crimp Tool</b>							
	600662324200	186-1249	●	1+	3+		

## 4.2mm Mini Power Connectors

WR-MPC4



The Mini power connector solution From Würth Elektronik is designed to meet the customer requirements when high current is needed and limited space. Lots of wire-to-wire and wire-to-board configurations are available.



**NEW**

- 4.2mm Pitch
- 1 Row or 2 Rows
- Current Rating up to 9A per contact
- 600V Working voltage
- PCB and cable connectors
- Positive housing locks
- Contacts insulated from each other
- 2 to 24 Pin connectors available
- UL 94V0
- Glow wire tested, meets the requirement of IEC 60695-2-11 / DIN EN 60335-1, chapter 30.2.1

657936

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
<b>Header, Vertical, Single Row</b>						
2	64900211122	211-3396	●			
3	64900311122	211-3397	●			
4	64900411122	211-3398	●			
5	64900511122	211-3400	●			

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
<b>Receptacle, Vertical, Single Row</b>						
2	649002013322	211-3401	●			
3	649003013322	211-3402	●			
4	649004013322	211-3403	●			
5	649005013322	211-3404	●			
<b>Header, Vertical, Dual Row</b>						
2	64900221122	164-1791	●			
4	64900421122	164-1792	●			
6	64900621122	164-1793	●			
8	64900821122	164-1794	●			
10	64901021122	164-1795	●			
12	64901221122	211-3331	●			
14	64901421122	211-3332	●			
16	64901621122	211-3333	●			
18	64901821122	211-3334	●			
20	64902021122	211-3335	●			
22	64902221122	211-3336	●			
24	64902421122	211-3337	●			
<b>Header, Vertical, Dual Row, with Mounting Pegs</b>						
2	649002221732	211-3339	●			
4	649004221732	211-3341	●			
6	649006221732	211-3342	●			
8	649008221732	211-3343	●			
10	649010221732	211-3344	●			
12	649012221732	211-3345	●			
14	649014221732	211-3346	●			
16	649016221732	211-3347	●			
18	649018221732	211-3348	●			
20	649020221732	211-3349	●			
22	649022221732	211-3350	●			
24	649024221732	211-3352	●			
<b>Header, Right Angle, Dual Row</b>						
2	64900229522	164-1796	●			
4	64900429522	164-1798	●			
6	64900629522	164-1799	●			
8	64900829522	164-1800	●			
10	64901029522	164-1801	●			
12	64901229522	211-3353	●			
14	64901429522	211-3354	●			
16	64901629522	211-3355	●			
18	64901829522	211-3356	●			
20	64902029522	211-3357	●			
22	64902229522	211-3358	●			
24	64902429522	211-3359	●			
<b>Header, Right Angle, Dual Row, with Mounting Pegs</b>						
2	649002227222	164-1802	●			
4	649004227222	164-1804	●			
6	649006227222	164-1805	●			
8	649008227222	164-1806	●			
10	649010227222	164-1807	●			
12	649012227222	211-3360	●			
14	649014227222	211-3361	●			
16	649016227222	211-3362	●			
18	649018227222	211-3364	●			
20	649020227222	211-3365	●			
22	649022227222	211-3366	●			
24	649024227222	211-3367	●			
<b>Header, Right Angle, Dual Row, with Mounting Flanges for Screw-in Retention</b>						
2	64900221022	211-3368	●			
4	64900421022	211-3369	●			
6	64900621022	211-3370	●			
8	64900821022	211-3371	●			
10	64901021022	211-3372	●			
12	64901221022	211-3373	●			
14	64901421022	211-3374	●			
16	64901621022	211-3376	●			
18	64901821022	211-3377	●			
20	64902021022	211-3378	●			
22	64902221022	211-3379	●			
24	64902421022	211-3380	●			
<b>Plug, Vertical, Dual Row, with Panel Mounting Ears</b>						
2	64900221822	184-1215	●			
4	64900421822	184-1216	●			
6	64900621822	184-1217	●			
8	64900821822	184-1218	●			
10	64901021822	184-1219	●			
12	64901221822	211-3381	●			
14	64901421822	211-3382	●			
16	64901621822	211-3383	●			
18	64901821822	211-3384	●			

# Rectangular Multipole - continued

## 4.2mm Mini Power Connectors - continued

### WR-MPC4 - continued

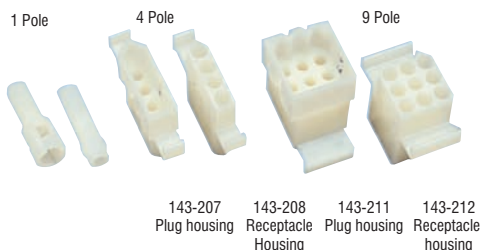
No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
<b>Plug, Vertical, Dual Row, with Panel Mounting Ears</b>						
20	64902021822	211-3385				
22	64902221822	211-3386				
24	64902421822	211-3388				
<b>Receptacle, Vertical, Dual Row</b>						
2	649002113322	184-1220				
4	649004113322	184-1222				
6	649006113322	184-1223				
8	649008113322	184-1224				
10	649010113322	184-1225				
12	649012113322	211-3389				
14	649014113322	211-3390				
16	649016113322	211-3391				
18	649018113322	211-3392				
20	649020113322	211-3393				
22	649022113322	211-3394				
24	649024113322	211-3395				
<b>Crimp Sockets</b>						
Wire Size	List No.	Order Code	10+	100+	500+	1K+
16 AWG	64900513722DEC	211-3406				
16-22 AWG	64900113722DEC	164-1808				
18-24 AWG	64900613722DEC	211-3407				
22-28 AWG	64900713722DEC	211-3408				
<b>Crimp Pins</b>						
16 AWG	64900813722DEC	211-3409				
16-22 AWG	64900313722DEC	184-1226				
18-24 AWG	64900913722DEC	211-3410				
22-28 AWG	64900013722DEC	211-3411				
<b>Crimp Leads, Socket - Socket</b>						
Description	List No.	Order Code	1+	10+	50+	100+
150mm, 16AWG	649500116015	211-3313				
300mm, 16AWG	649549516030	211-3315				
300mm, 18AWG	649649618030	211-3316				
300mm, 22AWG	649749722030	211-3317				
150mm, 24AWG	649600124015	211-3318				
150mm, 26AWG	649700126015	211-3319				
<b>Crimp Leads, Pin - Pin</b>						
150mm, 16AWG	649800116015	211-3320				
300mm, 16AWG	649849816030	211-3321				
300mm, 18AWG	649949918030	211-3322				
300mm, 22AWG	649049022030	211-3323				
150mm, 24AWG	649900124015	211-3324				
150mm, 26AWG	649000126015	211-3325				
<b>Die, for MPC4 Crimp Tool</b>						
600649326160	186-1248		1+	3+		
<b>Crimp Tool</b>						
16-28 AWG	600649222161	164-1809		1+		

## 5.03mm Pitch Pin and Socket

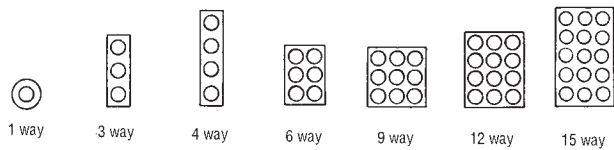
### 2.36mm Pin Diameter

An industry standard connector for applications ranging from domestic appliance to computers. The connectors are moulded from **UL94V-2** rated nylon 6.6 material and consists of a plug and receptacle **each of which can be loaded with plug or socket crimp-on terminals**. As an alternative a 1377 female or 1376 male PCB tail terminator can be fitted for direct mounting of the plug or receptacle housing onto a PCB. The receptacle and plug housing have friction locks (except 12 and 15 way) and integrally moulded mounting ears which bend back for panel mounting. The design of the plug and receptacle ensures positive polarisation. **UL** recognised and **CSA** certified.

Maximum voltage	250V ac	Pin spacing	5.03mm
Maximum current	See below	Terminals	
Temperature range	-40°C to +105°C	Finish	Tin plate
Maximum voltage drop	3mV	Wire size 1189/1190	0.597-1.68mm <sup>2</sup>
Dielectric strength	1500V rms for 60 secs	Wire size 1380/1381	0.336-0.933mm <sup>2</sup>
Engage force per circuit	0.034N approx	Max insul. O.D. 1189/1190	4.06mm
Disengage force per circuit	0.027N approx	Max insul. O.D. 1380/1381	3.05mm



### Housing configurations



Mfrs. Part No.	Mfrs. List No.	Description	Max Cur Per Circuit	Mounting Hole Dim (mm)	Order Code
1619R	(03-09-2011)	1 way plug housing	12A	—	973-1482
1396P	(03-09-2031)	3 way plug housing	12A	23.70 x 9.52	143-205
1396R	(03-09-1031)	3 way receptacle housing	12A	21.34 x 7.92	143-206
1490P	(03-09-2041)	4 way plug housing	9A	28.73 x 9.53	143-207
1490R	(03-09-1041)	4 way receptacle housing	9A	26.37 x 7.92	143-208
1261P	(03-09-2061)	6 way plug housing	9A	19.05 x 17.65	143-209
1261R	(03-09-1061)	6 way receptacle housing	9A	18.24 x 15.24	143-210
1292P	(03-09-2091)	9 way plug housing	9A	23.80 x 17.56	143-211
1292R	(03-09-1091)	9 way receptacle housing	9A	21.03 x 18.42	143-212
1360P1	(03-09-2122)	12 way plug housing	7.5A	29.34 x 19.30	143-213
1360R	(03-09-1121)	12 way receptacle housing	7.5A	26.67 x 16.64	143-214
1375P4	(03-09-2159)	15 way plug housing	7.5A	34.11 x 19.30	143-215
1375R	(03-09-1151)	15 way receptacle housing	7.5A	31.50 x 16.64	143-216

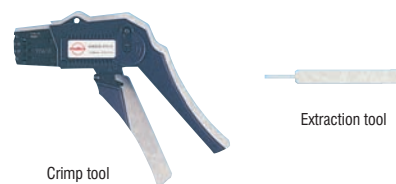
No. of Ways	Housing	Order Code	1+	100+	250+	500+	1K+
1	Plug	973-1482					
1	Receptacle	973-1490					
3	Plug	143-205					
3	Plug	143-206					
4	Plug	143-207					
4	Receptacle	143-208					
6	Plug	143-209					
6	Receptacle	143-210					
9	Plug	143-211					
9	Receptacle	143-212					
12	Plug	143-213					
12	Receptacle	143-214					
15	Plug	143-215					
15	Receptacle	143-216					

## PCB Terminals for 5.03mm Pitch Connectors



Pack Quantity	Order Code	1+	5+	10+
<b>Pins</b>				
100	977-3843			
1000	973-1555			
<b>Sockets</b>				
100	977-3835			
1000	973-1547			

## T0201 Tooling for 5.03mm Pitch Connectors

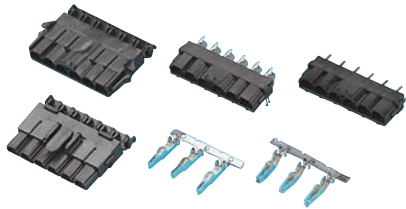


Mfrs. List No. 69008-0951=285-481, 69008-0950=285-470, 11-03-0006 (HT2038)=143-602

Terminal Size (AWG)	Terminal Eng. No.	Order Code	Price Each 1+
<b>Crimp Tool</b>			
22-18AWG	1380/81	156-0168	
<b>Extraction Tool</b>			
		143-602	

# Mini-Fit Sr.™ WTW, WTB Power Connector System **molex**

10.00mm Pitch



- Max 49A
- 10mm pitch
- Fully polarised
- Low mating force
- Positive audible click lock
- High current
- Wire-to-wire and Wire-to-board
- UL & CSA Approved

Housing	Polyester	Voltage	600V
Headers	Glass-filled, 4/6 nylon	Current	49A max
Contacts	Copper Alloy	Contact resistance	1mΩ max
Plating	Tin/Lead over Nickel	Dielectric voltage	2200V
Temperature	-40 to +105°C	Insulation resistance	MΩ min
	-40105	Amperes per line	10AWG = 33A 8AWG = 49A

Mfrs. List Nos: Receptacle housing 42816-xx12 Pnl mount plug housing 42818-xx12  
 Vertical header 42819-x222 R/A header 42818-x222  
 Where x/xx = No. of Ways

No. of Ways	Order Code	1+	100+	250+	500+	1K+
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Receptacle Housing						
2	307-5783					
3	307-5795					
4	307-5801					
5	307-5813					
6	307-5825					

Panel Mount Housing						
2	307-5837					
4	307-5850					
5	307-5862					
6	307-5874					

Vertical Header						
2	112-5167					
3	112-5168					
4	112-5169					
5	112-5170					
6	112-5171					

R/A Header						
2	112-5172					
3	112-5173					
4	112-5174					
5	112-5176					

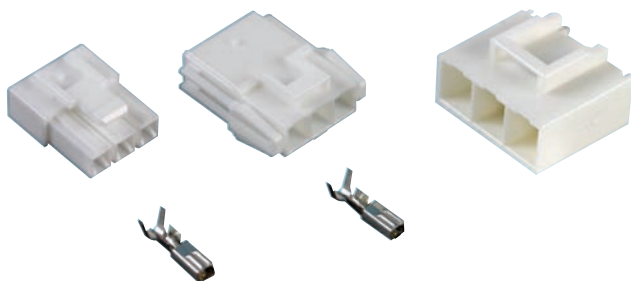
Price Per Pack						
10 Per Pack		1+	10+	25+	50+	

Pins						
10 AWG	101-2173					

Sockets						
8 AWG	101-2176					
10 AWG	973-3132					

Tooling						
8 AWG Hand Tool	307-5989					
10 AWG Hand Tool	307-5990					
Extraction Tool	307-6003					

## VL Connector Series Plugs, Receptacles and Shrouded PCB Headers



- 6.2mm pitch, wire-to-wire and wire-to-board connector system
- Housing lances for contact retention
- Plug housing mates with VL Series Header
- Suitable for high power circuits
- Panel lock construction

Current Rating	20A ac/dc	Contact Resistance	7mohm
Voltage Rating	600V ac/dc	Insulation Resistance	1000Mohm
Withstanding Voltage	2000V ac/1min.	PC Board Thickness	1.6mm
Wire size	0.52 - 3.3mm <sup>2</sup> , (12 - 20AWG)		
Housing	Nylon 6.6UL94V-0Natural (White)		
Contacts - Plug/Receptacle	Phosphor BronzeTin		
Contacts - Header	Copper Alloy, Tin plated		
Temperature Range	-25°C to +90°C		

No. of Ways	Mfrs. List No.	Order Code	5+	100+	250+	500+
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Receptacle Housing - Accepts Pin contacts						
2	VLR-02V	735-6307				
3	VLR-03V	735-6315				
4	VLR-04V	735-6331				

Plug Housing - Accepts Socket contacts						
2	VLP-02V	735-6340				
3	VLP-03V	735-6358				
4	VLP-04V	735-6366				

Shrouded PCB Header						
2	B02P-VL	735-6439				
3	B03P-VL	735-6447				
4	B04P-VL	735-6455				

Crimp contacts - Pin						
0.5 - 2.0mm <sup>2</sup>	BVM-61T-P2.0	735-6374				
3.5mm <sup>2</sup>	BVM-81T-P2.0	735-6390				

Crimp contacts - Socket						
0.5 - 2.0mm <sup>2</sup>	BVF-61T-P2.0	735-6382				
3.5mm <sup>2</sup>	BVF-81T-P2.0	735-6404				

Crimp tools						
0.5 - 2.0mm <sup>2</sup>	WC-590	735-6412				
3.5mm <sup>2</sup>	WC-591	735-6420				

## Sabre™ WTW, WTB Power System 7.5mm Pitch



- 2 - 6 circuits wire to wire or wire to board
- Board locks for 0.062" thick PCBs
- Patented new TPA (Terminal Position Assurance) on mated terminals
- Virtually eliminates terminal backout
- Anti-tangle positive latches
- Polarised Housing
- Terminals fully isolated in housings
- For 14 - 18 AWG wire

Voltage	1000V mated, 600V unmated	Temperature range	-40°C to 130°C
Current rating	18A	Housing	Nylon <b>UL94V-0</b>
Dielectric voltage	6000V	Contacts	Brass Plating

Mfrs. List No.	Description	Order Code
43178-2001	female terminal - insulation diameter 3.3mm	101-2197
43375-0001	female terminal - insulation diameter 3.3mm	973-4090
43375-1001	female terminal - insulation diameter 4.57mm	973-4104
43680-2002	2 way plug	329-2939
43680-2004	4 way plug	329-2952
44441-2002	2 way receptacle	329-2988
44441-2003	3 way receptacle	329-2990
44441-2004	4 way receptacle	329-3002
44441-2005	5 way receptacle	329-3014
44441-2006	6 way receptacle	329-3026
43160-3102	2 way header SMC r/a with board lock	329-3038
43160-3103	3 way header SMC r/a with board lock	329-3040
43160-3104	4 way header SMC r/a with board lock	329-3051
43160-3106	6 way header SMC r/a with board lock	329-3075
43160-2102	2 way header SMC vertical with board lock	973-4112
43160-2103	4 way header SMC vertical with board lock	101-2199
43160-2104	4 way header SMC vertical with board lock	973-4120
43160-2105	6 way header SMC vertical with board lock	101-2200
43160-2106	female crimp hand tool 2.36-3.56mm dia	101-2201
638117200	male crimp hand tool 2.36-3.56mm dia	142-2487
63813-0800	male extraction tool	329-3180

Order Multiple=2						
No. of Ways	Mfrs. List No.	Order Code	2+	10+	50+	100+

Plug						
2	43680-2002	329-2939				
4	43680-2004	329-2952				

Receptacle						
2	44441-2002	329-2988				
3	44441-2003	329-2990				
4	44441-2004	329-3002				
5	44441-2005	329-3014				
6	44441-2006	329-3026				

R/angled Hdr						
2	43160-3102	329-3038				
3	43160-3103	329-3040				
4	43160-3104	329-3051				
6	43160-3106	329-3075				

# Rectangular Multipole - continued

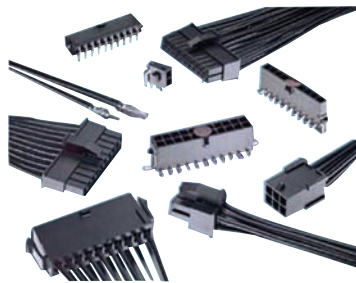
## Sabre™ WTW, WTB Power System - continued

Order Multiple=2		Price Each				
No of Ways	Mfrs. List No.	Order Code	2+	10+	50+	100+
<b>Vertical Hdr</b>						
2	43160-2102	973-4112				
3	43160-2103	101-2199				
4	43160-2104	973-4120				
5	43160-2105	101-2200				
6	43160-2106	101-2201				
<b>Terminals</b>						
Order Multiple=20			20+	100+	260+	500+
Female 3.3mm	43178-2002	101-2197				
Female 3.3mm	43375-0001	973-4090				
Female 4.57mm	43375-1001	973-4104				

209523

Mfrs. List No.	Description	Order Code	Price Each
638117200	Female crimp hand tool 2.36-3.56mm ins dia	142-2487	
63811-7300	Insertion tool 3.05-4.57mm ins dia	145-3583	
63813-0800	Extraction tool	329-3180	

## Micro MATE-N-LOK 3mm (.118") Centerline Spacing



- Wire-to-wire and wire-to-board pin and receptacle connector system
- 2-12 contact positions - single row
- 2-24 contact positions - double row
- Panel mount or free hanging wire-to-wire configurations
- Dual beam contact design for reliable interconnection
- Contacts accept 24-20 AWG (0.2-0.6MM<sup>2</sup>) and 30-26 AWG (0.05-0.15MM<sup>2</sup>) wire with insulation diameter of .060" (1.52mm) maximum
- Approvals: UL recognised & CSA approved

Current	5A Max	Centreline	3mm
Rated voltage	250V	Mating Force	6.67N
Temperature Range	-40°C to +105°C	Extraction force	0.5N per contact
Housing Material	Nylon, UL94V-2	Contact wire range	30 - 20 AWG
Colour	Black		

### Plug and Receptacle Housing

422851

Order Multiple=10		Price Each			
No. of Ways	Mfrs. List No.	Order Code	10+	100+	250+
<b>Receptacle Housing Single Row - Accepts socket contacts</b>					
2	1445022-2	111-1081			
3	1445022-3	111-1082			
4	1445022-4	111-1083			
5	1445022-5	111-1084			
<b>Receptacle Housing Dual Row - Accepts socket contacts</b>					
2	794617-2	111-1087			
4	794617-4	111-1088			
6	0-0794617-6	111-1089			
8	794617-8	111-1090			
10	1-794617-0	111-1091			
12	1-794617-2	111-1092			
16	1-794617-6	111-1093			
20	2-794617-0	111-1094			
24	2-794617-4	111-1095			
<b>Free Plug Housing Single Row - Accepts pin contacts</b>					
2	1445049-2	111-1096			
3	0-1445049-3	111-1098			
4	1445049-4	111-1099			
<b>Free Plug Housing Dual Row - Accepts pin contacts</b>					
4	794616-4	124-8309			
6	794616-6	124-8310			
<b>Panel Mount Plug Housing Dual Row - Accepts pin contacts</b>					
2	794615-2	111-1108			
4	794615-4	111-1109			
6	794615-6	111-1110			
10	1-794615-0	111-1112			
12	1-794615-2	111-1113			
Order Multiple = 100			100+	1K+	2K5+
<b>Pin Contacts</b>					
20-24AWG Pin Contact	1-794612-0	111-1149			
26-30AWG Pin Contact	1-794613-0	111-1150			

Order Multiple=10		Price Each			
No. of Ways	Mfrs. List No.	Order Code	10+	100+	250+
<b>Socket Contacts</b>					
20-24AWG Socket Contact	794610-1	111-1151			
26-30AWG Socket Contact	794611-1	111-1153			
<b>Tooling</b>					
Crimp tool for 20-24AWG	91501-1	111-1475		1+	
Crimp tool for 26-30AWG	91502-1	111-1476			
Extraction Tool, Pin	1586344-1	111-1473			
Extraction Tool, Socket	843996-6	111-1477			

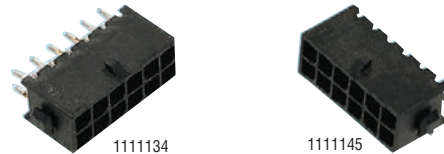
## Micro MATE-N-LOK Single Row 90° Headers



422859

Order Multiple=10		Price Each					
No. of Ways	List No.	Order Code	10+	100+	250+	500+	1K+
<b>Through Hole - With plastic board locks</b>							
2	2-1445055-2	111-1118					
3	2-1445055-3	111-1119					
4	2-1445055-4	111-1120					
5	2-1445055-5	111-1121					
<b>SMT - with SMT hold down</b>							
2	2-1445057-2	111-1123					
3	2-1445057-3	111-1124					
4	2-1445057-4	111-1125					
6	2-1445057-6	111-1128					

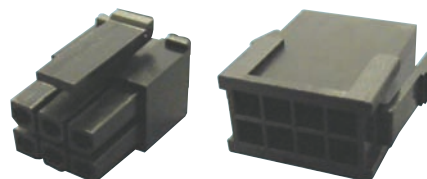
## Micro MATE-N-LOK Dual Row 90° & Vertical Headers



422860

Order Multiple = 10		Price Each					
No. of Ways	List No.	Order Code	10+	100+	250+	500+	1K+
<b>Vertical Through Hole - With Solder tail retention</b>							
2	3-794630-2	111-1129					
4	3-794630-4	111-1130					
6	3-794630-6	111-1131					
8	3-794630-8	111-1132					
10	4-794630-0	111-1133					
12	4-794630-2	111-1134					
16	4-794630-6	111-1135					
20	5-794630-0	111-1136					
24	5-794630-4	111-1137					
<b>90° Through Hole - With board locks</b>							
2	3-794618-2	111-1138					
4	3-794618-4	111-1141					
6	3-794618-6	111-1142					
8	3-794618-8	111-1143					
10	4-794618-0	111-1144					
12	4-794618-2	111-1145					
16	4-794618-6	111-1146					
24	5-794618-4	111-1148					

## 3.0mm Plug & Receptacle Housings 5560 / 5561 series

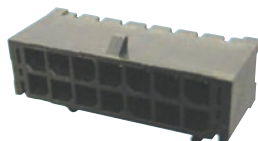


- 3.0mm grid spacing
- Dual Row
- Flammability rating - UL 94V-0

Receptacle Housing	Plug Housing				
Housing Material Nylon 6,6	Contact Material Phosphor Bronze	Contact Plating Tin Plated	Current Rating 5A	Voltage Rating 250V	Operating Temperature -25°C to 105°C

Mfrs. List No.	No. of Ways	Order Code	Price Each				
			10+	100+	250+	500+	1K+
<b>Free Hanging Receptacles</b>							
MC34583	2	157-8562					
MC34585	4	157-8563					
MC34587	6	157-8564					
MC34589	8	157-8565					
MC34591	10	157-8566					
MC34571	12	157-8567					
MC34573	14	157-8568					
MC34845	16	157-8569					
MC34847	18	157-8570					
MC34575	20	157-8572					
<b>Panel Mount Plugs</b>							
MC34593	2	157-8573					
MC34595	4	157-8574					
MC34599	8	157-8576					
MC34601	10	157-8577					
MC34577	12	157-8578					
MC34579	14	157-8579					
MC34841	16	157-8580					
MC34843	18	157-8581					
MC34581	20	157-8582					
<b>Crimp Pin</b>							
2261(5561)T	20 - 24 AWG	157-8642	100+	500+	1K+	2K5+	5K+
<b>Crimp Socket</b>							
2260(5560)T	20 - 24 AWG	157-8643					

### 3.0mm Vertical & Right Angle Headers 5561S / 5561R series



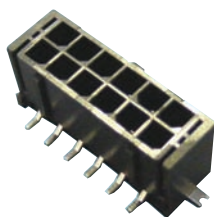
- Orientation - Vertical and Right Angle Headers available
- 3.0mm grid spacing
- Dual Row
- Flammability rating - UL 94V-2
- 5561S & 5561R mate with Receptacle Housings 5560

Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
Nylon 4,6	Copper Alloy	Tin Plated	5A	250V	-25°C to 105°C

522737

Mfrs. List No.	No. of Ways	Order Code	Price Each				
			10+	100+	250+	500+	1K+
<b>Vertical Headers</b>							
MC34715	2	157-8584					
MC34329	4	157-8585					
MC34331	6	157-8586					
MC34333	8	157-8587					
MC34335	10	157-8588					
MC34705	12	157-8589					
MC34707	14	157-8590					
MC34849	16	157-8591					
MC34851	18	157-8592					
MC34327	20	157-8593					
<b>Right Angle Headers</b>							
MC34337	2	157-8594					
MC34717	4	157-8596					
MC34339	6	157-8597					
MC34341	8	157-8598					
MC34343	10	157-8599					
MC34709	12	157-8600					
MC34711	14	157-8602					
MC34853	16	157-8603					

### 3.0mm Vertical & Right Angle SMT Headers 5561S-SM1 / 5561R-SM1 series



- Orientation - Vertical and Right Angle Headers available
- Mounting Type - SMT
- 3.0mm grid spacing
- Headers come with metal tabs
- Dual Row
- Flammability rating - UL 94V-2
- 5561S-SM1 & 5561R-SM1 mate with Receptacle Housings 5560

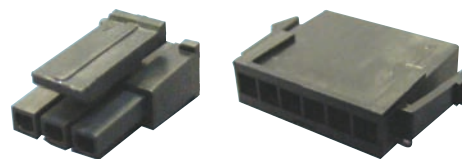
Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
High Temp. Plastic	Copper Alloy	Tin Plated	5A	250V	-25°C to 105°C

522741

Mfrs. List No.	No. of Ways	Order Code	Price Each				
			10+	100+	250+	500+	1K+
<b>Vertical Headers</b>							
MC34857	2	157-8606					
MC34859	4	157-8607					
MC34861	6	157-8608					
MC34863	8	157-8609					
2261(5561)S-10T-SM1	10	157-8610					
2261(5561)S-12T-SM1	12	157-8611					
MC34865	14	157-8612					
2261(5561)S-16T-SM1	16	157-8614					
MC34867	18	157-8615					
MC34869	20	157-8616					
<b>Right Angle Headers</b>							
MC34871	2	157-8617					
MC34873	4	157-8618					
MC34875	6	157-8620					
MC34877	8	157-8621					
MC34879	10	157-8622					
MC34881	12	157-8623					
MC34885	16	157-8626					
2261(5561)R-18T-SM1	18	157-8627					
MC34887	20	157-8628					

### 3.0mm Plug & Receptacle Housings

5560A / 5561A series



Receptacle Housing

Plug Housing

- 3.0mm grid spacing
- Single Row
- Housings have mounting ears
- Flammability rating - UL 94V-0

Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
Nylon 6,6	Copper Alloy	Tin Plated	5A	250V	-25°C to 105°C

523153

Mfrs. List No.	No. of Ways	Order Code	Price Each				
			10+	100+	250+	500+	1K+
<b>Free Hanging Receptacles</b>							
MC34539	2	157-8629					
MC34541	3	157-8630					
MC34543	4	157-8631					
<b>Panel Mount Plugs</b>							
MC34545	2	157-8632					
MC34547	3	157-8633					
2261(5561)A-04	4	157-8634					
<b>Crimp Pin</b>							
2261(5561)T	20 - 24 AWG	157-8642	100+	500+	1K+	2K5+	5K+
<b>Crimp Socket</b>							
2260(5560)T	20 - 24 AWG	157-8643					

### 3.0mm Vertical & Right Angle Headers 5561SA / 5561RA series



- Orientation - Vertical and Right Angle Headers available
- 3.0mm grid spacing
- Single Row
- Flammability rating - UL 94V-2
- 5561SA & 5561RA mate with Receptacle Housings 5560A

Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
Nylon 4,6	Copper Alloy	Tin Plated	5A	250V	-25°C to 105°C

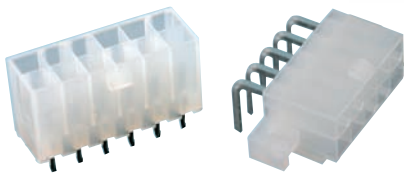
523155

Mfrs. List No.	No. of Ways	Order Code	Price Each				
			10+	100+	250+	500+	1K+
<b>Vertical Headers</b>							
2261(5561)SA-02	2	157-8635					
2261(5561)SA-03	3	157-8636					
2261(5561)SA-04	4	157-8638					
<b>Right Angle Headers</b>							
2261(5561)RA-02	2	157-8639					
2261(5561)RA-03	3	157-8640					
2261(5561)RA-04	4	157-8641					

## Rectangular Multipole - continued

### 4.2mm VAL-U-LOK Series

#### PCB Pin Headers



- Straight and right angle variants available
- Right angle versions available with/without mounting screw flange
- With "Pos. 1" marking

372167

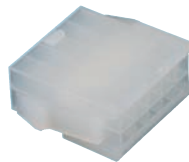
No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	25+	50+	250+
<b>Straight</b>						
2	1586037-2	811-5931				
6	1586037-6	811-5958				
8	1586037-8	811-5966				
10	1-1586037-0	811-5729				
12	1-1586037-2	811-5737				
20	2-1586037-0	811-6121				
24	2-1586037-4	811-6130				
<b>Right Angle</b>						
8	1586041-8	811-6008				
12	1-1586041-2	811-5761				
16	1-1586041-6	811-5770				
20	2-1586041-0	811-6148				

### 4.2mm VAL-U-LOK Series

#### Plug and Receptacle Housings



Free-hanging plug housing



Panel mount plug



- Plug and receptacle housings
- Free-hanging or panel mount variants available

#### Single Row

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			5+	25+	50+	250+
<b>Panel Mount Plug</b>						
3	1586101-3	124-8319				
<b>Free-Hanging Plug</b>						
3	1586103-3	124-8320				
5	1586024-5	124-8316				
<b>Receptacle Housing</b>						
3	1586105-3	181-2570				
4	1586026-4	124-8317				

#### Double Row

372164

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	25+	50+	250+
<b>Panel Mount Plug</b>						
12	1-794953-2	811-5826				
16	1-794953-6	811-5834				
20	2-794953-0	811-6180				
24	2-794953-4	811-6199				
<b>Free-Hanging Plug</b>						
2	1586000-2	811-5893				
4	1586000-4	811-5907				
6	1586000-6	811-5915				
10	1-1586000-0	811-5699				
24	2-1586000-4	811-6113				
<b>Receptacle Housing</b>						
2	794954-2	811-6261				
4	794954-4	811-6270				
8	794954-8	811-6296				
10	1-794954-0	811-5842				
16	1-794954-6	811-5869				
20	2-794954-0	811-6202				
24	2-794954-4	811-6210				

### 4.2mm VAL-U-LOK Series

#### Crimping Contacts and Tools

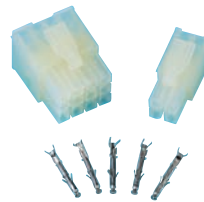


- Male and female contacts for 4,2 mm PE Series
- Locators can be used to crimp male or female contacts

372169

AWG	Cross section (mm <sup>2</sup> )	Mfrs.		Price Each			
		List No.	Order Code	10+	100+	500+	1K+
<b>Male Contacts</b>							
26-22	0.1-0.3	1586316-1	811-6075				
22-18	0.3-0.8	1586314-1	811-6059				
<b>Female Contacts</b>							
26-22	0.1-0.3	1586317-1	811-6083				
22-18	0.3-0.8	1586315-1	811-6067				
<b>Crimp Tools</b>							
				1+			
Crimp tool- without locator		354940-1	360-170				
Locator- AWG26-22		91387-2	811-6300				
Locator- AWG22-18		91388-2	811-6318				
Extraction tool		1586343-1	811-6091				

### Mini Universal Mate-N-Lok.



- Housing may be used to accommodate either pin or socket contacts
- Fully polarised
- Double-wire crimping possible
- Compact housing
- Approvals: CSA, & VDE. UL Recognised

Current	5A Max	Contact Material	Brass, with Tin finish
Rated voltage	600V	Centreline	4.2mm
Temperature Range	-20°C to +105°C	Contact insertion force	4N per contact
Housing Material	Nylon	Extraction force	0.5N per contact
Colour	UL94V-2: Natural UL94V-0: White	Wire range	26 - 18 AWG

209247

No. of Ways	Rows	Mfrs. List No.	Order Code	Price Each			
				5+	10+	100+	250+
<b>Order Multiple=5</b>							
<b>Plug Housing, UL94V-2 - Accepts pin or socket contacts</b>							
2	1	Free 172336-1	133-620				
3	1	Free 172337-1	133-632				
4	2	Free 172338-1	133-644				
6	2	Free 172339-1	133-656				
9	Matrix	Free 172340-1	133-668				
12	Matrix	Free 172341-1	133-670				
15	Matrix	Free 172342-1	133-681				
<b>Plug Housing, UL94V-0 - Accepts pin or socket contacts</b>							
1	1	Free 172164-1	124-8280				
2	1	Free 172165-1	124-8281				
3	1	Free 172166-1	124-8282				
4	2	Free 172167-1	124-8283				
6	2	Free 172168-1	124-8284				
8	2	Free 770579-1	124-8305				
9	Matrix	Free 172169-1	124-8286				
12	2	Free 770581-1	124-8306				
12	Matrix	Free 172170-1	124-8287				
15	Matrix	Free 172171-1	124-8288				
20	2	Free 770585-1	124-8307				
<b>Receptacle Housing, UL94V-2 - Accepts pin or socket contacts</b>							
2	1	Panel 172328-1	133-693				
2	1	Free 172343-1	124-8293				
3	1	Panel 172329-1	133-700				
4	2	Panel 172330-1	133-711				
6	2	Panel 172331-1	133-723				
9	Matrix	Panel 172332-1	133-735				
12	Matrix	Panel 172333-1	133-747				
<b>Receptacle Housing, UL94V-0 - Accepts pin or socket contacts</b>							
1	1	Free 172156-1	124-8271				
2	1	Panel 172157-1	124-8272				
2	1	Free 172233-1	124-8289				
3	1	Panel 172158-1	124-8274				
3	1	Free 172234-1	124-8290				



Order Multiple=5		Mfrs.		Price Each			
No. of Ways	Rows	List No.	Order Code	5+	10+	100+	250+

**Receptacle Housing, UL94V-0** - Accepts pin or socket contacts

4	2	Panel 172159-1	124-8275				
6	2	Panel 172160-1	124-8276				
9	Matrix	Panel 172161-1	124-8277				
12	Matrix	Panel 172162-1	124-8278				
15	Matrix	Panel 172163-1	124-8279				

Order Multiple=20		Mfrs.		Price Each		
Pin Contacts	Order Code	20+	100+	500+	1K+	

26-22AWG Pin Contact	170363-1	133-760				
22-18AWG Pin Contact	170364-1	133-772				

**Socket Contacts**

26-22AWG Socket Contact	170365-1	133-784				
22-18AWG Socket Contact	170366-1	133-796				

Tooling		Mfrs.		Price Each		
Tool for 22-26AWG	91529-1	433-9873	1+			
Extraction tool	189727-1	165-1092				
Insertion Tool	455830-1	962-9645				

**4.2mm Plug & Receptacle Housings**  
2257 / 2259 series



- 4.2mm grid spacing
- Dual Row
- Colour - white
- Flammability rating - UL 94V-2

Receptacle Housing		Plug Housing				
Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature	
High Temp. Plastic	Phosphor Bronze	Tin Plated	9A	600V	-40 to 105°C	523230

No. of Ways		Mfrs. List No.		Price Each			
Ways	Mfrs. List No.	Order Code	5+	100+	250+	500+	1K+

**Free Hanging Receptacles**

2	MC34505	157-8468				
4	MC34507	157-8469				
6	MC34509	157-8470				
8	MC34511	157-8471				
10	MC34513	157-8472				
12	MC34515	157-8473				
14	MC34889	157-8474				
16	MC34549	157-8475				
18	MC34891	157-8476				
20	MC34551	157-8477				

**Panel Mount Plugs**

2	MC34517	157-8478				
4	MC34519	157-8481				
6	2259(5559)-06	157-8482				
8	MC34523	157-8483				
10	MC34525	157-8484				
12	MC34527	157-8485				
14	MC34893	157-8486				
16	MC34553	157-8487				
18	MC34895	157-8488				
20	MC34555	157-8489				

**Crimp Pin**

22-28 AWG	MC343151	186-0638	100+	500+	1K+	
18-24 AWG	MC343152	186-0640				
16 AWG	MC343153	186-0643				

**Crimp Socket**

22-28 AWG	MC346771	186-0639				
18-24 AWG	MC346772	186-0642				
16 AWG	MC346773	186-0644				

**INTELLIGENT ONLINE BUYING SYSTEM PROVIDING**

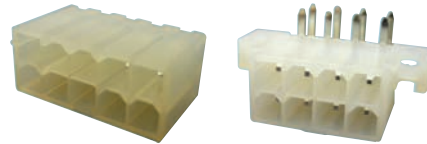
Complete cost control, reduced administration time, visibility of your spend, flexibility and personalised to your company's needs.

[farnell.com/ibuy](http://farnell.com/ibuy)

**4.2mm Vertical & Right Angle Headers**



2266S / 2269R series



- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>● Orientation - Vertical and Right Angle Headers available</li> <li>● 4.2mm grid spacing</li> <li>● Dual Row</li> </ul> | <ul style="list-style-type: none"> <li>● Colour - white</li> <li>● Flammability rating - UL 94V-2</li> <li>● 5566S &amp; 5569R mate with Receptacle Housings 5557</li> </ul> |
|--|--|

Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
Nylon 6,6	Copper Alloy	Tin Plated	9A	600V	-40 bis 105°C

No. of Ways		Mfrs. List No.		Price Each			
Ways	Mfrs. List No.	Order Code	5+	100+	250+	500+	1K+

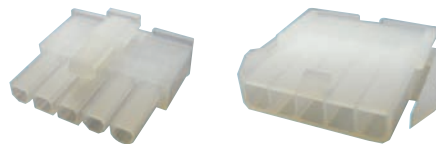
Vertical Headers							
2	MC34657	157-8490					
4	MC34659	157-8491					
6	MC34661	157-8493					
8	MC34663	157-8494					
10	MC34665	157-8495					
12	MC34667	157-8496					
14	MC34897	157-8497					
16	MC34777	157-8498					
18	MC34899	157-8499					
20	MC34779	157-8500					

Right Angle Headers							
2	MC34311	157-8501					
4	MC34669	157-8502					
6	MC34313	157-8503					
8	MC34671	157-8504					
10	MC34673	157-8505					
12	MC34675	157-8506					
14	MC34901	157-8507					
16	MC34781	157-8508					
18	MC34903	157-8511					
20	MC34783	157-8512					

**4.2mm Plug & Receptacle Housings**



2257A / 2259A series



- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>● 4.2mm grid spacing</li> <li>● Single Row</li> </ul> | <ul style="list-style-type: none"> <li>● Colour - white</li> <li>● Flammability rating - UL 94V-2</li> </ul> |
|--|--|

Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
High Temp. Plastic	Phosphor Bronze	Tin Plated	9A	600V	-40 bis 105°C

No. of Ways		Mfrs. List No.		Price Each			
Ways	Mfrs. List No.	Order Code	5+	100+	250+	500+	1K+

Free Hanging Receptacle							
3	MC34905	157-8513					
4	MC34907	157-8514					
5	MC34909	157-8515					

Panel Mount Plugs							
3	MC34911	157-8516					
4	MC34913	157-8517					
5	MC34915	157-8518					

Crimp Pin		Mfrs.		Price Each			
Ways	Mfrs. List No.	Order Code	5+	100+	250+	500+	1K+
22-28 AWG	MC343151	186-0638					
18-24 AWG	MC343152	186-0640					
16 AWG	MC343153	186-0643					

Crimp Socket		Mfrs.		Price Each			
Ways	Mfrs. List No.	Order Code	5+	100+	250+	500+	1K+
22-28 AWG	MC346771	186-0639					
18-24 AWG	MC346772	186-0642					
16 AWG	MC346773	186-0644					

# Rectangular Multipole - continued

## 4.2mm Vertical & Right Angle Headers

2269SA-PG / 2266RA-PG series



- Orientation - Vertical and Right Angle Headers available
- 4.2mm grid spacing
- Single Row
- Mounting Peg
- Colour - white
- Flammability rating - UL 94V-2
- 5569SA-PG & 5566RA-PG mate with Receptacle Housings 5557A

Housing Material	Contact Material	Contact Plating	Current Rating	Voltage Rating	Operating Temperature
Nylon 6,6	Brass	Tin Plated	9A	600V	-40 bis 105°C

523261

No. of Ways	Mftrs. List No.	Order Code	5+	100+	250+	500+	1K+
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### Vertical Headers

3	MC34923	157-8519	●				
4	MC34925	157-8520	●				
5	MC34927	157-8521	●				

### Right Angle Headers

4	MC34919	157-8524	●				
5	MC34921	157-8525	●				

## Mini Universal Mate-N-LOK II

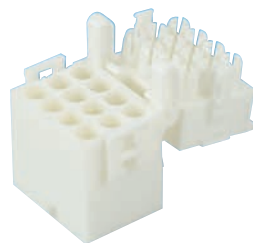
Housings



dual row



single row



Matrix

- multipole plug and socket housings
- single row, dual row and matrix versions for cable connection

No. of ways:	2-24	Dielectric strength:	1500V AC/VDC
Pitch:	4,14mm	Rated voltage:	600V AC/DC
Material, Housing:	Polyamide, white, UL94V-0	Rated current:	max.10,5A
Contact resistance:	20mΩ	life time:	25 mating cycles
Isolation resistance:	1MΩ	Working temperature:	-55°C to +105°C

353295

No. of Ways	Mftrs. List No.	Order Code	1+	100+	250+	500+
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### Plug housing

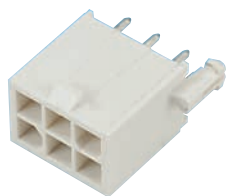
2	1	794184-1	361-4633	●		
4	2	794188-1	361-4670	●		
10	2	794196-1	361-4785	●		
12	2	794198-1	361-4797	●		
16	2	794206-1	361-4815	●		
24	2	794214-1	361-4852	●		

### Socket housing

12	2	794199-1	361-4888	●		
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## Mini Mate-N-Lok II

PCB Receptacle



- Multipole PCB receptacle
- Polarised to ensure correct mating
- Pitch 4,14mm
- Contacts accept wire size range 30-16 AWG

Housing	Polyamid, UL94V-0	Isolation withstand:	MΩ
Dielectric Withstanding Voltage	1500 VAC/VDC	Durability	25 Mating Cycles
Current Rating	Up to 10.5A per circuit, 2 position	Temperature Range	-20°C To +65°C

239828

No. of Ways	Rows	Mftrs. List No.	Order Code	1+	100+	250+
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### Straight, Tin Plated Contacts

2	1	1-770166-0	109-8523	●		
3	1	1-770170-0	109-8525	●		
4	2	1-770174-0	109-8526	●		
6	2	1-770178-0	109-8527	●		
8	2	1-794065-0	109-8528	●		
9	Matrix	1-770182-0	109-8529	●		
12	Matrix	1-770186-0	109-8533	●		
20	2	1-794070-0	109-8546	●		

### Straight, Gold Plated Contacts

2	1	1-770166-1	124-8294	●		
4	2	1-770174-1	124-8296	●		
6	2	1-770178-1	124-8298	●		
8	2	1-794065-1	124-8302	●		

### Right Angled, Tin Plated Contacts

2	1	1-770966-0	109-8556	●		
4	2	1-770968-0	109-8564	●		
6	2	1-770969-0	109-8565	●		
8	2	1-770970-0	109-8566	●		
10	2	1-770971-0	109-8567	●		
12	2	1-770972-0	109-8569	●		
14	2	1-770973-0	109-8570	●		
24	2	1-794108-0	109-8584	●		

## Mini Mate-N-Lok II

Crimp Contacts



- Crimp Contacts: Brass, Tin plated
- Supplied loose

Wire size	Insulation-Ø mm	L mm	Mftrs. List No.	Order Code
<b>Pin Contact</b>				
0,12-0,30.120.3	1,19-1,75	19,69	794226-1	361-5327
0,3-0,80.30.8	1,50-2,39	19,69	794228-1	361-5339
0,5-1,20.51.2	2,01-3,20	19,69	794230-1	361-5340
<b>Socket Contact</b>				
0,05-0,120.050.12	0,89-1,27	19,69	794225-1	361-5352
0,3-0,80.30.8	1,50-2,39	19,69	794229-1	361-5376
0,5-1,20.51.2	2,01-3,20	19,69	794231-1	361-5388

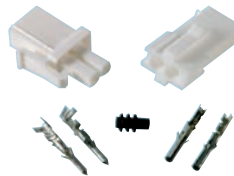
239866

### Order Multiple=10

Mftrs List No.	Order Code	10+	50+	100+
<b>Pin Contact</b>				
794226-1	361-5327	●		
794228-1	361-5339	●		
794230-1	361-5340	●		
<b>Socket Contact</b>				
794225-1	361-5352	●		
794229-1	361-5376	●		
794231-1	361-5388	●		

## Mini Universal Mate-N-Lok.

Splash-Proof Sealed Connectors



- Housing may be used to accommodate either pin or socket contacts
- Fully polarised
- Use with splash-proof seal to ensure a water and dust resistance assembly
- Dual locking lances assure optimum contact stability
- UL Recognised

Current	9A Max	Colour	Tin
Rated voltage	600V	Contact Material	Brass, with Tin finish
Temperature Range	-20°C to +105°C	Centreline	4,14mm
Housing Material	Nylon, UL94V-0	Wire range	26 - 18 AWG

413327

No. of Ways	Mftrs. List No.	Order Code	5+	50+	250+	+
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### Order Multiple=5

<b>Plug Housing - Accepts pin or socket contacts</b>						
2	794894-1	964-2722	●			
4	794805-1	964-2730	●			
6	794895-1	964-2749	●			
8	794821-1	964-2757	●			
10	794781-1	964-2765	●			

No. of Ways	Mfrs.		Price Each			
	List No.	Order Code	5+	50+	250+	+
<b>Receptacle Housing - Accepts pin or socket contacts</b>						
2	794896-1	964-2773				
4	794939-1	964-2781				
6	794940-1	964-2790				
8	794941-1	964-2803				
10	794942-1	964-2811				

Order Multiple=5	Mfrs.		Price Each			
	List No.	Order Code	5+	50+	250+	+
<b>Interface Seals</b>						
2	794772-2	964-2820				
4	794772-4	964-2838				
6	794772-6	964-2846				
8	794772-8	964-2854				
10	1-794772-0	964-2862				
Plug Seal, Single Cavity	794995-1	964-2870				
Seal, Single Wire	794758-1	964-2889				

Order Multiple=20	Mfrs.		Price Each			
	List No.	Order Code	20+	100+	500+	1K+
<b>Pin Contacts</b>						
26-22AWG Pin Contact	170363-1	133-760				
22-18AWG Pin Contact	170364-1	133-772				
<b>Socket Contacts</b>						
26-22AWG Socket Contact	170365-1	133-784				
22-18AWG Socket Contact	170366-1	133-796				
<b>Order Multiple=1</b>						
<b>Tooling</b>			Price Each			
Tooling			1+			
Tool for 26-22AWG	91529-1	433-9873				
Tool for 22-18AWG	90759-1	152-3510				

### Commercial Mate-N-Lok 6 Way



- 6 way
- Double row contact layout
- Pin and Socket Housing are free hanging
- Positive lock

447798

Order Multiple=5	Mfrs.		Price Each			
	List No.	Order Code	5+	10+	100+	250+
Pin Housing	1-480340-0	299-480				
Socket Housing	1-480270-0	299-510				
PCB Header	1-380999-0	299-546				

### Crimp Terminals for Commercial 'Mate-N-Lok'



	Wire Size (AWG)	Wire Size (mm <sup>2</sup> )	Insulation Diameter	Contact Material	Mfrs. List No.	Order Code
Pin	18-24	0.2-0.8	1.52-2.54	Brass	60618-1	124-8260
Pin	18-20	0.5-1	1.8-3.3	Phosphor Bronze	163305-2	105-6036
Pin	14-20	0.5-2	2.54-3.3	Brass	60620-1	124-8263
Pin	14-18	1-2.5	2.5-3.8	Brass	163307-2	299-560
Socket	18-24	0.2-0.8	1.5-2.5	Brass	60617-1	124-8259
Socket	18-20	0.5-1	1.8-3.3	Brass	163304-2	149-091
Socket	14-20	0.5-2	2.5-3.3	Brass	60619-1	124-8262
Socket	14-18	1-2.5	2.5-3.8	Brass	163306-2	299-571

Contact Plating Tin

100 Per Pack	Mfrs.		Price Per Pack			
	List No.	Order Code	1+	5+	10+	25+
Pin163305-2		105-6036				
Socket163304-2		149-091				
Socket163306-2		299-571				
<b>Multiples of 100</b>						
Pin		124-8260				
Pin		124-8263				
Socket		124-8259				
Socket		124-8262				

### Tooling for Commercial 'Mate-N-Lok'



9629432



Industrial ratchet crimp tool

L=285

Also see low cost crimp tool, Pro-Crimper SEE WEBSITE

209082

Wire Size mm <sup>2</sup>	Mfrs. List No.	Order Code	Price Each
0.5-1	575937	299-583	
1-2.5	575938	299-595	
<b>Crimp Tool</b>			
0.2-1.0mm <sup>2</sup>	91512-1	962-9432	
Extraction Tool	465644-1	148-090	

### Universal MATE-N-LOK



The range offers extremely reliable, economical and versatile capabilities for multipole plug connectors for internal and external wiring of computers, computer peripherals, office systems, automatic sales machines, and various other applications.

Polarized housings and optionally mixed fittings in the housing chambers with pins or sockets result in versatile combination options. The housings are suitable for freely suspended couplings or for plug connections which can be permanently mounted.

250102

### Universal MATE-N-LOK



- Horizontal printed circuit board base
- Male and female version
- 6.35 mm grid
- Single row
- Approvals: VDE, CSA, UL recognised

Solder pin width: 1.32 mm  
Volume resistance: 20 mΩ  
Rated current: to  
Temperature range: To + 239854

Order Multiple=5	Mfrs.		Price Each		
	List No.	Order Code	1+	10+	100+
<b>Pin</b>					
2	1-350942-0	199-9977			
3	1-350943-0	199-9989			
4	1-350944-0	199-9990			
5	1-350945-0	342-2434			
<b>Socket</b>					
3	643228-1	342-2471			

### Universal MATE-N-LOK

UL94V-0



- Panel or free mounting housings
- Offset latching lugs with or without window
- Single row or matrix pin layouts
- 6.35mm grid
- Approvals: VDE, CSA, UL recognised

Housing material: Nylon, UL94V-0  
Soldering pin diameter: 1.32mm  
Conductor cross section: 0,05-5,0mm<sup>2</sup>  
Insulation: to Ø 5,1mm  
Rated current : to 19A  
Rated voltage: 600V AC/DC  
Volume resistance: ≤35mΩ  
Temperature range: -55°C to +105°C  
Colour: White

353567

Order Multiple=5	Mfrs.		Price Each				
	Ways	Rows	List No.	Order Code	5+	10+	100+
<b>Plug Housing, UL94V-0</b>							
2	1	350777-1		750-074			
3	1	350766-1		750-086			
4	1	350779-1		750-098			
5	1	350809-1		750-104			
6	2	350715-1		750-116			
9	Matrix	350720-1		750-128			
12	Matrix	350735-1		750-130			
15	Matrix	350736-1		750-141			



### Universal MATE-N-LOK - continued

#### UL94V-0 - continued

Order Multiple=5		Mftrs.	Price Each			
Ways	Rows	List No.	Order Code	5+	10+	100+
<b>Plug Housing, UL94V-0, with window latch</b>						
2	1	350777-4	124-8215	●		
3	1	350766-4	342-2537	●		
4	1	350779-4	342-2549	●		
5* (N)	1	926299-3	342-2550	●		
6*	2	350715-4	342-2914	●		
9	Matrix	350720-4	342-2938	●		
<b>Receptacle (Cap) Housing, UL94V-0</b>						
2	1	350778-1	750-153	●		
3	1	350767-1	750-165	●		
4	1	350780-1	750-177	●		
5	1	350810-1	750-189	●		
6	2	350781-1	750-190	●		
9	Matrix	350782-1	750-207	●		
9 (N)	Matrix	927231-3	785-4684	●		
12	Matrix	350783-1	750-219	●		
12 (N)	Matrix	926681-3	342-2987	●		
15	Matrix	350784-1	750-220	●		
15 (N)	Matrix	926647-3	342-2999	●		
<b>PCB Pin Headers, UL94V-0</b>						
2	1	350786-1	750-232	●		
3	1	350789-1	750-244	●		
4	1	350792-1	750-256	●		
5	1	640900-1	750-268	●		
6	2	350711-1	750-270	●		
9	Matrix	350712-1	750-281	●		
12	Matrix	350713-1	750-293	●		
15	Matrix	350714-1	750-300	●		
<b>PCB Socket Headers, UL94V-0</b>						
3	1	350825-1	124-8216	●		
5	1	640901-1	124-8217	●		
6	2	350827-1	124-8218	●		
9	Matrix	350828-1	124-8219	●		

\* = no mounting lugs for strain reliefs, (N) = Colour: Natural



Plug housing Mates with receptacle or PCB header  
Cable or panel Mounting receptacle Panel thickness = 0.76-2.29  
PCB Header PCB hole dia. = 1.8 Pitch = 6.35

- Contact arrangement are straight in line for 2, 3, 4, 5 way housing and rows of 3 for 6, 9, 12 and 15 way housings
- Moulded in opaque white to UL94V-0

209162

#### Order Multiple=5

No. of		Mftrs.	Price Each			
Ways	List No.	Order Code	5+	10+	100+	250+
<b>Plug-Housings - Accepts pin or socket contacts</b>						
2	350777-1	750-074	●			
3	350766-1	750-086	●			
4	350779-1	750-098	●			
5	350809-1	750-104	●			
6	350715-1	750-116	●			
9	350720-1	750-128	●			
12	350735-1	750-130	●			
15	350736-1	750-141	●			
<b>Receptacle Housings - Accepts pin or socket contacts</b>						
2	350778-1	750-153	●			
3	350767-1	750-165	●			
4	350780-1	750-177	●			
5	350810-1	750-189	●			
6	350781-1	750-190	●			
9	350782-1	750-207	●			
12	350783-1	750-219	●			
15	350784-1	750-220	●			
<b>PCB Pin Headers</b>						
2	350786-1	750-232	●			
3	350789-1	750-244	●			
4	350792-1	750-256	●			
5	640900-1	750-268	●			
6	350711-1	750-270	●			
9	350712-1	750-281	●			
12	350713-1	750-293	●			
15	350714-1	750-300	●			

### Universal MATE-N-LOK UL94V-2



- Panel or free mounting housings
- Single row or matrix pin layouts
- 6.35mm grid
- Approvals: VDE, CSA, UL recognised

Housing material: -55°C to +105°C  
Contact material: Nylon, UL94V-2  
Soldering pin diameter: Copper / Tin  
Conductor cross section: 1,32mm  
Insulation: 0,05-5,0mm<sup>2</sup> to Ø 5,1mm

Rated current: to 19A  
Rated voltage: 600V AC/DC  
Volume resistance: ≤35mΩ  
Temperature range: -55°C to +105°C

449809

Order Multiple=5		Mftrs.	Price Each			
Ways	Rows	Clr List No.	Order Code	5+	10+	100+
<b>Plug Housing, UL94V-2</b>						
2	1	1-480698-0	285-146	●		
3	1	1-480700-0	285-158	●		
4	1	1-480702-0	285-160	●		
5	1	1-480763-0	285-171	●		
6	2	1-480704-0	285-183	●		
9	Matrix	1-480706-0	285-195	●		
12	Matrix	1-480708-0	285-201	●		
15	Matrix	1-480710-0	285-213	●		
<b>Receptacle (Cap) Housing, UL94V-2</b>						
2	1	1-480699-0	285-225	●		
3	1	1-480701-0	285-237	●		
4	1	1-480703-0	285-249	●		
5	1	1-480764-0	285-250	●		
6	2	1-480705-0	285-262	●		
9	Matrix	1-480707-0	285-274	●		
12	Matrix	1-480709-0	285-286	●		
15	Matrix	1-480711-0	285-298	●		
<b>PCB Pin Headers, UL94V-2</b>						
2	1	350428-1	285-304	●		
3	1	350429-1	285-316	●		
4	1	350430-1	285-328	●		
5	1	640466-1	285-330	●		
6	2	350431-1	285-341	●		
9	Matrix	350432-1	285-353	●		
12	Matrix	350433-1	285-365	●		
15	Matrix	350434-1	285-377	●		

### Crimp Terminals for Universal 'Mate-N-Lok'



- Dual locking lances provide contact stability
- Low contact mating force
- Tin Plated
- LP = Loose Piece, TR = Tape and Reel

Wire Size (AWG)	Wire Size (mm <sup>2</sup> )	Insulation Diameter	Material	Mftrs.	List No.	Order Code
<b>Pin Contacts</b>						
24-18	0.2-0.8	1.0-2.5	Brass	926896-1	285-389	LP
24-18	0.2-0.8	1.0-2.5	Brass	926885-1	124-8244	TR
24-18	0.2-0.8	1.0-2.5	Phosphor Bronze	926885-3	124-8245	TR
20-14	0.5-2.1	1.5-3.3	Brass	926894-1	285-390	LP
20-14	0.5-2.1	1.5-3.3	Brass	926883-1	124-8240	TR
20-14	0.5-2.1	1.5-3.3	Phosphor Bronze	926883-3	124-8241	TR
20-14	0.5-2	3.3-5.1	Brass	350538-1	124-8214	TR
16-13	1.5-2.5	3.3-5.1	Brass	926868-1	124-8233	TR
16-13	1.5-2.5	3.3-5.1	Phosphor Bronze	926868-3	124-8234	TR
12-10	3.1-4.9	3.3-5.1	Phosphor Bronze	350922-3	124-8222	TR
<b>Split Pin Contacts</b>						
24-18	0.2-0.8	1.0-2.5	Brass	926886-1	124-8246	TR
24-18	0.2-0.8	1.0-2.5	Phosphor Bronze	926886-3	124-8247	TR
20-14	0.5-2.1	1.5-3.3	Brass	926887-1	124-8249	TR
20-14	0.5-2.1	1.5-3.3	Phosphor Bronze	926887-3	124-8251	TR
16-13	1.5-2.5	3.3-5.1	Brass	926899-1	124-8252	TR
<b>Socket Contacts</b>						
24-18	0.2-0.8	1.0-2.5	Brass	926895-1	285-407	LP
24-18	0.2-0.8	1.0-2.5	Brass	926884-1	124-8242	TR
24-18	0.2-0.8	1.0-2.5	Phosphor Bronze	926884-3	124-8243	TR
20-14	0.5-2.1	1.5-3.3	Brass	926893-1	285-419	LP
20-14	0.5-2.1	1.5-3.3	Brass	926882-1	124-8238	TR

Wire Size	Wire Size	Insulation				
<b>Socket Contacts</b>						
20-14	0.5-2.1	1.5-3.3	Phosphor Bronze	926882-3	124-8239	TR
20-14	0.5-2	3.3-5.1	Brass	350537-1	124-8213	TR
16-13	1.5-2.5	3.3-5.1	Brass	926869-1	124-8235	TR
16-13	1.5-2.5	3.3-5.1	Phosphor Bronze	926869-3	124-8237	TR
12-10	3.1-4.9	3.3-5.1	Phosphor Bronze	350923-3	124-8223	TR

209076

100 Per Pack	Order Code	1+	5+	10+	25+
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Loose Piece

Pin Contacts

285-389 ●

285-390 ●

Socket Contacts

285-407 ●

285-419 ●

Order Multiple= 100+	Price Each
100+	500+
1K+	2K5+

Tape and Reel

Pin Contacts

124-8244 ● RL

124-8245 ● RL

124-8240 ● RL

124-8241 ● RL

124-8214 ● RL

124-8233 ● RL

124-8234 ●

124-8222 ● RL

Split Pin Contacts

124-8246 ● RL

124-8247 ● RL

124-8249 ● RL

124-8251 ● RL

124-8252 ● RL

Socket Contacts

124-8242 ● RL

124-8243 ● RL

124-8238 ● RL

124-8239 ● RL

124-8213 ● RL

124-8235 ● RL

124-8237 ● RL

124-8223 ● RL

## Universal MATE-N-LOK



Open Type

Enclosed Type

- Strain relief for Universal Mate-N-Lok male connector housing (plug)
- Two parts required per strain relief

Housing material: Polyamide, 6.6 white, -55 Temperature range: -55°C to +105°C  
239873/406587

Order Multiple=2	Mftrs.	Price Each
Style	No. of Ways	List No.
1+	10+	50+

Open Type Strain Relief

In-Line 2, 3, 4, 5, 6, 8 350811-1 182-2081 ●

Matrix 6, 9, 12, 15 350812-1 182-2615 ●

Enclosed Type Strain Relief

In-Line 2 640713-2 124-8225 ●

In-Line 3 640714-1 124-8226 ●

In-Line 4 641776-1 124-8231 ●

In-Line 5 643030-1 124-8232 ●

Matrix 6 640715-1 124-8227 ●

Matrix 9 640716-1 124-8228 ●

Matrix 12 640717-1 124-8229 ●

Matrix 15 640718-1 124-8230 ●



## TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at [farnell.com](http://farnell.com)

## Tooling for Universal 'Mate-N-Lok'



Industrial ratchet crimp tool

Extraction tool

209078

Wire Size mm<sup>2</sup>

Industrial Crimp Tools	Mftrs. List No.	Order Code	Price Each
0.2-0.8	654148-1	285-420	
<b>Extraction Tool</b>	539972-1	990-9125	
<b>Crimp Tool</b>			
0.2-0.9mm <sup>2</sup>	91510-1	962-9440	
0.5-2.1mm <sup>2</sup>	91500-1	962-9475	

## Plug, Socket PCB Header Housings



6.35mm Pitch



Single Row



Matrix

- Panel, free hanging or Through Hole mounting options
- Single row or matrix pin layouts
- 6.35mm grid
- Crimp Terminals: Brass, Tin Plated
- UL94V-2

### Specifications:-

Current Rating	13A	Voltage Rating	600V AC/DC
Insulation Material	Nylon 6.6	Insulation Resistance	
Contact Resistance	20mohm	Withstanding Voltage	5000V AC/min.
Operating Temp.	-55°C to 125°C		

528329

Ways	Rows	Order Code	10+	50+	100+	250+	500+
------	------	------------	-----	-----	------	------	------

Plug Housings, Free Hanging

2 1 168-7443 ●

3 1 168-7444 ●

4 1 168-7445 ●

5 1 168-7446 ●

6 Matrix 168-7447 ●

9 Matrix 168-7448 ●

12 Matrix 168-7449 ●

15 Matrix 168-7450 ●

Socket Housings, Free Hanging / Panel Mount

2 1 168-7452 ●

3 1 168-7453 ●

4 1 168-7454 ●

5 1 168-7455 ●

6 Matrix 168-7456 ●

9 Matrix 168-7457 ●

12 Matrix 168-7458 ●

15 Matrix 168-7459 ●

PCB Headers, Through Hole

2 1 168-7460 ●

3 1 168-7461 ●

4 1 168-7462 ●

5 1 168-7464 ●

6 Matrix 168-7465 ●

9 Matrix 168-7466 ●

12 Matrix 168-7467 ●

15 Matrix 168-7468 ●

Order Code	100+	1K+	2K5+	3K5+
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Crimp Pins

16-20AWG 168-7471 ●

18-22AWG 168-7473 ●


# Rectangular Multipole - continued

## Plug, Socket PCB Header Housings - continued

### 6.35mm Pitch - continued

Ways	Rows	Order Code	10+	50+	100+	250+	500+
<b>Crimp Pins, Matrix</b>							
16-20AWG		168-7474					
18-22AWG		168-7476					
<b>Crimp Sockets</b>							
16-20AWG		168-7469					
18-22AWG		168-7470					

### 0.140 Mate-N-Lok



- 6.09mm centerline spacing
- Fully polarised
- Available in 2, 3, 9 and 18 way
- Pin and socket contact equipped with dual locking lances

● **UL Recognised**

Current Per Contact	28A Max	Contact Plating	Tin
Rated voltage	250V	Centreline	6.10mm
Temperature Range	-55°C to +105°C	Wire range	10 - 20 AWG
Housing Material	Nylon, <b>UL94V-2</b>		

386394

Order Multiple=5	Price Each					
No. of Ways	Mfrs. List No.	Order Code	5+	10+	100+	250+

Plug Housing -Free						
2	1-350345-0	857-8095				
3	1-350347-0	857-8117				
9	1-480586-0	857-8133				

Receptacle Housing -Free						
2	1-350344-0	857-8109				
3	1-350346-0	857-8125				
9	1-480585-0	857-8141				

Receptacle Housing -Panel						
9	1-480672-0	857-8168				

Order Multiple=10	Mfrs. List No.	Order Code	10+	50+	100+	250+
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Pin Contacts						
14-20AWG	Copper Alloy	925660-1	857-8192			
14-20AWG	Phosphor Bronze	925660-2	124-8267			
10-14AWG	Copper Alloy	925662-1	857-8214			
10-14AWG	Phosphor Bronze	925662-2	124-8269			

Socket Contacts						
14-20AWG	Brass	925661-1	857-8206			
14-20AWG	Phosphor Bronze	925661-2	124-8268			
10-14AWG	Brass	925663-1	857-8222			

Tooling						
Hand Tool	825582-2	359-798				1+
Die for Pro-Crimper	1752938-2	857-8230				

### Four Way (5/4"/3" Drives)

A four way power connector that mates with most popular 5/4" and 3" standard disk drive units. To facilitate extension cable to be made up, a four way PCB mounting header is also available.

Pin housing      Socket housing      Socket contact      PCB pin header  
PCB mounting centres  
4 x 1.78 dia,  
5.08 (0.2") Pitch

Contacts	Phosphor bronze, tin plated	Wire size	20-18 SWG (0.5-1.0mm <sup>2</sup> )
PCB contacts	Brass, tin plated	Insulation dia.	1.8 - 3.3



FOR THE COMPLETE RANGE OF COMMERCIAL 'MATE-N-LOK' CONNECTORS  
SEE WEB SITE.

Mfrs. List No:	1-480426-0 = 299-479	1-480424-0 = 148-085	350211-1 = 148-086
	163305-2 = 105-6036	163304-2 = 149-090/1	

208980

Order Multiple=5	Price Each				
4 Way Housings	Order Code	5+	10+	100+	250+
Pin	299-479				
Socket	148-085				
PCB header	148-086				
Order Multiple=1	Price Per Pack				
Contacts		1+	5+	10+	25+
Pin (pack of 100)	105-6036				
Socket (pack of 10)	149-090				
Socket (pack of 100)	149-091				

### Four Way (3" Drives)

A four way power connector that mates with TEAC and most popular 3 1/2" standard disk drive units.

Socket housing	Brass, tin plated	Wire size	0.14 — 0.52mm <sup>2</sup> , 20-26AWG
Contacts	Nylon 6.6 <b>UL94V-0</b> and <b>CSA</b>	Insulation dia.	1.1, 1.9

Mfrs. List No. 171822-4 = 150-665, 170204-1 = 150-666

208981

Order Multiple=5	Order Code	5+	25+	50+	100+	250+
<b>Housing</b>						
	150-665					
Order Multiple=1	Price Per Pack					
Contacts		1+				
Socket (pack of 10)	150-666					


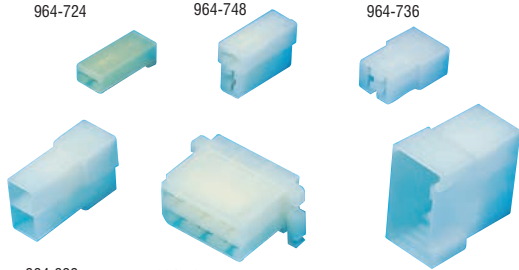
### Tooling for Disk Drive Power Connectors




209031

	Mfrs. List No.	Order Code	Price Each
Extraction Tool (4 way)	465644-1	148-090	1+

### 'Fastin-Faston'

964-724      964-748      964-736

964-839      964-785      964-864

- Multi-position, wire harness coupling connector
- Locking lance on contacts for firm retention in housing
- 1 through to 11 way

Housing	Polyamide 6.6 <b>UL94V-2</b>	Temperature	105°C
Contacts	Brass, tin plated		

209213

Order Multiple=5	Price Each					
No. of Ways	Mfrs. List No.	Order Code	5+	10+	100+	250+
<b>Receptacle Housing</b>						
1	925324-2	964-724				
2	180923	964-736				
2	180907	964-748				
3	180941	964-750				
4	180900	964-761				
6	180904	964-785				
8	163007	964-797				
11	151325-1	964-803				
<b>Tab Housing</b>						
1	180916	964-815				
2	180924	964-827				
2	180908	964-839				

Order Multiple=5		Price Each				
No. of Ways	Mftrs. List No.	Order Code	5+	10+	100+	250+
<b>Tab Housing</b>						
3	180940	964-840				
4	180901	964-852				
6	180906	964-864				
8	163008	964-876				
11	151326-1	964-888				



### Crimp Terminals for 'Fastin-Faston'



	Contact		Price Each			
	Wire Size (mm <sup>2</sup> )	Insulation Diameter	Mftrs. List No.	Order Code	10+	50+
Receptacles	0.3-0.8	2.2-3.2	60838-1	964-890		
Receptacles	0.8-2.1	3.1-4.1	42238-2	964-906		
Receptacles	0.8-2.1	3.1-4.1	42282-2	964-918		
Tabs	0.3-0.8	2.2-3.1	61316-1	964-920		
Tabs	0.8-2.1	3.1-4.1	42241-2	964-931		
Tabs	0.8-2.1	3.1-4.1	42565-2	964-943		

25 Per Pack		Price Per Pack				
	Mftrs. List No.	Order Code	1+	5+	10+	25+
Receptacle	60838-1	964-890				
Receptacle, multiple Housing	42238-2	964-906				
Receptacle, Single Housing	42282-2	964-918				
Tab	61316-1	964-920				
Tab, multiple Housing	42241-2	964-931				
Tab, single Housing	42565-2	964-943				

### Tooling for 'Fastin-Faston'



#### ● Ratchet Crimp Tool

Mftrs. List No.	Order Code	Price/Each
674655	964-955	

### Positive Lock '250 Series'

- Suitable for environments with strong vibration and mechanical strain
- Easy mating contact, good mechanical lock
- Receptacle has internal ramp design, engages with contact latch
- Housing available in three colours, natural, black and red

Housing	Polyamide 6.6	Temperature	140°C
Contacts	Brass, tin plated		

### Housings



- Note: 1) 341300-9 for use with 341411 & 341412 only  
 2) 172076-1 for use 170335-1 only  
 3) 926522-1 mates with Fastin-Faston housing 180908  
 4) 926330-1 mates with Fastin-Faston housing 180906  
 5) 926646-1 mates with Fastin-Faston housing 163008

Order Multiple=10		Price Each				
No. of Ways	Colour	Mftrs. List No.	Order Code	10+	50+	100+
<b>Housing - For Premier Range Receptacles</b>						
1	Black	154719	148-076			
1	Natural	154719-1	148-106			
2	Black	926522-1	148-192			
Order Multiple=5				5+	50+	100+
<b>Housing - For Standard Range Receptacles</b>						
Order Multiple=10				10+	50+	100+
1	Black	341300-9	148-222			

### Receptacles (Crimp Terminals)



148-313 148-337 148-362

Contact Type	Range	Wire Size (mm <sup>2</sup> )	Insulation Diameter (mm)	Mftrs. List No.	Order Code
Receptacle	Premier	0.2-0.7	2.4-3.2	341002-1	148-313
Receptacle	Premier	0.2-0.7	2.4-3.2	341002-6	148-337
Receptacle	Premier	2.5-4	3.6-4.3	341001-1	148-349
Receptacle	Premier	2.5-4	3.6-4.3	341001-6	148-350
Receptacle	Standard	0.5-1.5	2.1-2.9	341412-1	148-362
Receptacle	Standard	0.5-1.5	2.1-2.9	341412-2	148-374

#### Order Multiple = 10

Material	Mftrs. List No.		Price Each				
	Order Code	10+	100+	500+	1K+	5K+	
<b>Premier Range</b>							
Brass	341002-1	148-313					
Brass	341002-6	148-337					
Brass	341001-1	148-349					
Brass	341001-6	148-350					
<b>Standard Range</b>							
Brass	341412-1	148-362					
Brass	341412-2	148-374					

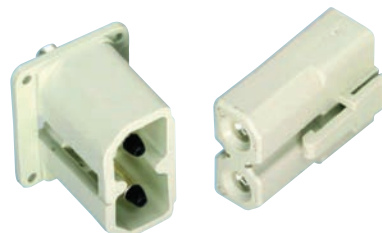
### Crimp Tools



Wire Size (mm <sup>2</sup> )	Mftrs. List No.	Order Code	Price Each
<b>Crimp Tool - Premier Range</b>			
0.7-4.0	525651	148-428	

### AMPHE-PD RADSOK Technology

### Amphenol



The Amphe-PD™ features RADSOK® technology which is high in reliability and amperage and low insertion force. The Amphe-PD connector series has the ability to connect wires and busbars as well as circuit boards which allows the Amphe-PD to be used in a wide variety of applications.

- Uses RADSOK Technology
- Integrated latching Mechanism
- Low insertion force
- Compression set screw termination
- Audible and tactile locking
- TUV "touch proof" V0 rating

Current Rating	CSA: 55A, UL: 69A	Shell Flammability Rating	Moulded Thermoplastic
Wire Size	6AWG		UL94V-0
Contact Plating	Silver		

No. of Ways	Mftrs. No.	Order Code	1+	10+	25+	50+
<b>Plug, 3.6 mm RADSOK (6AWG)</b>						
2	10-638974-000	128-1467				
<b>Receptacle, Busbar</b>						
2	10-638975-000	128-1468				
<b>Receptacle, Crimp</b>						
2	10-638976-000	128-1469				
<b>Receptacle, PCB</b>						
2	10-638977-000	128-1470				

**INTELLIGENT ONLINE BUYING SYSTEM PROVIDING**

**iBuy** Complete cost control, reduced administration time, visibility of your spend, flexibility and personalised to your company's needs.

**farnell.com/ibuy**

## Trident - 'Snap Together' Series



Low installation cost connectors for signal and power internal wiring applications.

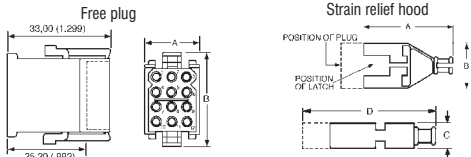
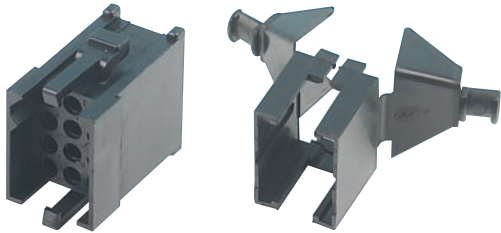
Rated at up to 13A and 250V ac they provide easy assembly and removal of circuit boards, fans, motors, transformers etc. Comprising free plugs, panel and PCB mounting receptacles plus a wide range of crimp and solder contacts, the system offers a versatile, reliable and cost effective interconnection solution.

- Integral retaining latches and polarisation
- Plug housings accept both pin and socket contacts
- UL and CSA recognised

Operating voltage	250VAC
Maximum current	13A
Temperature range	-55°C to 105°C (free plug, panel receptacle) -40°C to 105°C (PCB receptacle)
Insulation resistance	MΩ
Housing	Nylon, UL94V-0

230649

## Free Plugs and Strain Relief Hoods



- Free plug accepts pin or socket contacts
- Hood provides strain relief and wire protection
- Mates with panel or PCB mounting receptacles
- Secure with cable tie (not supplied)
- Contacts to be ordered separately

No. of Ways	Dimensions		No. of Ways	Dimensions	
	A	B		A	B
2	15.5	17.0	12	19.0	32.0
12	19.0	17.0	24	24.0	42.0
4	24.0	17.0	36	49.5	32.0
6	19.0	22.0			

No. of Ways	Wire Bundle Dia.	Dimensions			
		A	B	C	D
2	2.3mm - 8.3mm	46.2	16.1	11	56.5
3	2.3mm - 8.3mm	46.2	18.6	11	56.5
4	3.0mm - 10.0mm	46.2	23.7	11	56.5
6	2.3mm - 8.3mm	46.2	19	16.4	56.5
12	3.0mm - 10.0mm	45.5	19	26.4	55.8
24	4.6mm - 12.7mm	51	24	36.8	60.3
36	7.0mm - 15.9mm	57.5	49.5	26.4	68

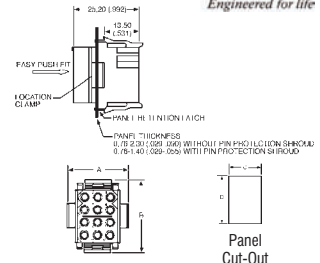
Mfrs. List No.	TST02PA00=118-8205	TST24PA00=118-8210	TST06AH00=118-8217
	TST03PA00=118-8206	TST36PA00=118-8212	TST12AH00=118-8218
	TST04PA00=118-8207	TST02AH00=118-8213	TST24AH00=118-8219
	TST06PA00=118-8208	TST03AH00=118-8214	TST36AH00=118-8220
	TST12PA00=118-8209	TST04AH00=118-8216	

FOR SUITABLE CABLE TIE SEE CABLE ACCESSORIES SECTION

230658

Order Multiple=5		Price Each				
No. of Ways	Order Code	1+	25+	50+	100+	250+
<b>Free Plug - Accepts Pin or Socket Contacts</b>						
2	118-8205					
12	118-8206					
4	118-8207					
6	118-8208					
12	118-8209					
24	118-8210					
36	118-8212					
<b>Strain Relief Hood</b>						
2	118-8213					
3	118-8214					
4	118-8216					
6	118-8217					
12	118-8218					
24	118-8219					
36	118-8220					

## Panel Receptacles



Receptacle

Panel Cut-Out

- Receptacle accepts pin or socket contacts
- Mates with free plugs
- Contacts to be ordered separately
- Can be fitted onto panels up to 1.4mm thick

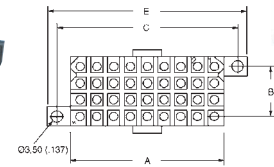
No. of Ways	Dimensions			
	A	B	C	D
2	19.0	14.0	±0.13	±0.13
3	24.0	14.0	16.5	11.6
4	29.0	13.5	21.7	11.6
6	24.0	19.0	16.5	16.7
12	24.0	29.0	16.7	26.7
24	29.0	39.0	11.8	36.9
36	54.2	29.0	46.7	26.4

Mfrs. List No.	TST03RA00=118-8222	TST06RA00=118-8224	TST24RA00=118-8226
	TST02RA00=118-8221	TST04RA00=118-8223	TST12RA00=118-8225
			TST36RA00=118-8228

230666

No. of Ways	Order Code	Price Each				
		1+	25+	50+	100+	250+
<b>Panel Receptacle - Accepts Pin or Socket Contacts</b>						
2	118-8221					
3	118-8222					
4	118-8223					
6	118-8224					
12	118-8225					
24	118-8226					
36	118-8228					

## PCB Connectors with Pin or Socket Contacts



Socket contacts

Fig. 1

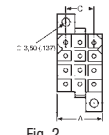


Fig. 2

- Mate with free plugs
- Integral moulded mounting ears
- PCB grid spacing 5.08mm (0.2")
- Recommended PCB hole dia. 1.15mm
- Available in formed or machined contact options

No. of Ways	Figure	Dimensions				
		A	B	C	D	E
2	2	16.20	±0.08	±0.08	11.0	26.0
6	2	16.20	19.12	10.23	11.0	26.0
12	2	16.20	19.12	10.23	21.2	35.2
24	2	21.30	29.30	10.26	31.3	45.6
36	1	46.60	15.24	54.64	21.2	60.5

TST12RB05T=118-6671	TST12RB01T=118-6677	TST36RB06T=118-6684	TST06RB02T=118-6688
TST36RB05T=118-6673	TST24RB01T=118-6678	TST02RB02T=118-6685	TST12RB02T=118-6689
TST02RB01T=118-6674	TST06RB06T=118-6679	TST03RB02T=118-6686	TST24RB02T=118-6690
TST03RB01T=118-6675	TST12RB06T=118-6680	TST04RB02T=118-6687	TST36RB02T=118-6691
TST06RB01T=118-6676	TST24RB06T=118-6683		

230667

Order Multiple=5		Price Each				
No. of Ways	Order Code	1+	25+	50+	100+	250+
<b>Pin Contacts, Formed, Tin Plated</b>						
12	118-6671					
36	118-6673					
<b>Pin Contacts, Machined, Tin Plated</b>						
2	118-6674					
3	118-6675					
6	118-6676					
12	118-6677					
24	118-6678					
<b>Socket Contacts, Formed, Tin Plated</b>						
6	118-6679					
12	118-6680					
24	118-6683					
36	118-6684					



Order Multiple=5		Price Each				
No. of Ways	Order Code	1+	25+	50+	100+	250+
<b>Socket Contacts, Machined, Tin Plated</b>						
2	118-6685					
3	118-6686					
4	118-6687					
6	118-6688					
12	118-6689					
24	118-6690					
36	118-6691					

### Trident - 'Snap Together - Slimline' Series



Low profile connectors for circuit board wiring. Rated at up to 10A and 250V ac the precision machined contacts are ideal for power and signal applications. Comprising free plugs and PCB mounting pin headers in straight or 90° mounting options.



- Less than 10mm width on PCB
- Plugs have integral moulded quick connect/disconnect retaining latches
- Plug housings accept formed or machined socket contacts
- PCB headers pre-loaded with straight or 90° tin plated machined pin contacts
- UL and CSA recognised

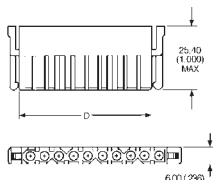
Operating voltage	250VAC	Insulation resistance	MΩ
Maximum current	10A	Housing	Nylon, UL94V-0
Temperature range	-40°C to 105°C		

230670

### Free Plugs



Free plug

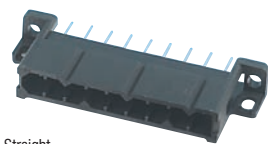


- Accepts socket contacts
- Contacts to be ordered separately

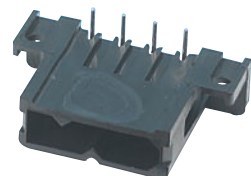
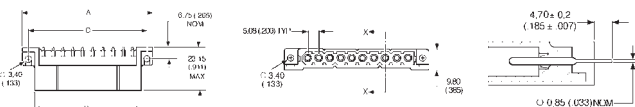
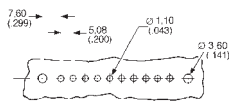
Mfrs. List No.	TST03PF00=118-8229	TST04PF00=118-8230	TST06PF00=118-8231	TST09PF00=118-8232	TST10PF00=118-8233
No. of Ways	3	4	6	9	10
Dimensions	16.1	21.2	31.4	46.6	51.6

230672

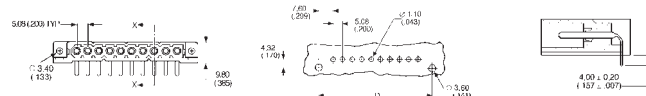
		Price Each				
No. of Ways	Order Code	1+	25+	50+	100+	250+
<b>Free Plug - Accepts Socket Contacts</b>						
3	118-8229					
4	118-8230					
6	118-8231					
9	118-8232					
10	118-8233					



Straight



90°



No. of Ways	Dimensions (mm)			
	A	B	C	D
3	31.4	19.4	25.5	25.5
4	36.5	14.5	30.6	30.6
6	46.7	34.7	40.7	40.7
9	61.9	49.9	56.0	56.0
10	67.0	55.0	61.1	51.6

- Accept socket contacts
- Contacts to be ordered separately

Mfrs. List No.	TST03RD01T=118-6692	TST09RD01T=118-6696	TST04RE01T=118-6699
	TST04RD01T=118-6694	TST10RD01T=118-6697	TST06RE01T=118-6701
	TST06RD01T=118-6695	TST03RE01T=118-6698	TST09RE01T=118-6702

230675

Order Multiple=5		Price Each				
No. of Ways	Order Code	1+	25+	50+	100+	250+
<b>Straight Header</b>						
3	118-6692					
4	118-6694					
6	118-6695					
9	118-6696					
10	118-6697					
<b>90° Header</b>						
3	118-6698					
4	118-6699					
6	118-6701					
9	118-6702					

### Trident Connector Crimp Contacts

#### Solid Machined



Socket contact Pin contact

- Gold plated one-piece machined construction
- 13A standard brass material
- High performance and durability
- Fit all Trident connectors

Current rating	13A
Contact resistance	5mΩ
Body material	Brass
Mating cycles	500

231029

Order Multiple=10		Price Each					
Wire Size	Colour	Order Code	10+	50+	100+	500+	1K+
<b>Pins</b>							
26AWG	Black	118-6768					
24AWG	Blue	118-6769					
22AWG	Red	118-6770					
20AWG	Green	118-6771					
AWG16	Black	118-6773					
<b>Sockets</b>							
26AWG	Black	118-6774					
24AWG	Blue	118-6775					
22AWG	Red	118-6776					
20AWG	Green	118-6777					
16AWG	Black	118-6778					

### Trident Connector Solder Cup Contacts

- Tin or gold flash plating options
- 13A standard brass material
- Ideal for low volume and prototype applications
- Fit all Trident connectors

Current rating	13A	Body material	Brass
Contact resistance	5mohm	Mating cycles	500

Mfrs. List Nos:	192900-0632=118-6780	192900-0635=118-6781
	192900-0634=118-6779	192900-0633=118-6782

231031

Order Multiple=10		Price Each			
Order Code	10+	50+	100+	500+	1K+
<b>Tin Plated Pins</b>					
192900-0632	118-6780				
<b>Tin Plated Sockets</b>					
192900-0634	118-6779				
<b>Gold Plated Pins</b>					
192900-0633	118-6782				
<b>Gold Plated Sockets</b>					
192900-0635	118-6781				



# Rectangular Multipole - continued

Housing Polyamide 6,6

Temperature range

-55°C to +105°C

Order Contacts Separately - SEE PAGE 1775

°C-55105°C  
0.82.3mm

219680

## Trident TNM Connector Power Contacts



- 30A crimp power contacts for TNM combined signal and power connectors
- Tin plated copper alloy material

Socket contact	Pin contact			
Current rating	13A	Body material	Copper Alloy	
Contact resistance	2.5mΩ	Mating cycles	200	
Mfrs. List Nos:	192990-9610 192990-9640	118-8308 118-8309	192990-9620 192990-9650	118-8310 118-8311

231033

Order Multiple=10		Price Each				
Wire Size	Order Code	10+	50+	100+	500+	1K+

Pins	
14 - 12AWG	118-8310 ●

Sockets	
16 - 14AWG	118-8309 ●
14 - 12AWG	118-8311 ●

## Trident Connector Tooling



- Ratchet crimp tools for stamped and formed signal and power contacts
- Hand crimp tool for machined contacts
- Machined contact tool requires calibrated locator, supplied separately

Mfrs. List Nos:	121586-5238	174-0791	112108-0012	380-6923	192922-1450	380-6959
	121586-5237	174-0792	192990-7600	380-6947	192900-0176	380-6960
	121586-5236	174-0793				

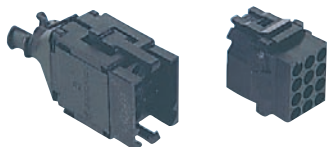
231035

Contact Type	Wire Size	Order Code	1+
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Power	14-16 AWG	174-0791	
Signal	16-18 AWG	174-0792	
Signal	20-26 AWG	174-0793	
Signal	14-20 AWG	380-6923	
Crimp Tool		890-376	
Locator (calibrated)		380-6947	

Extractor Tool	
Signal	380-6959
Power	380-6960

## 'Qikmate' Crimp 2 to 36 Way 13A



Free plug

Chassis socket



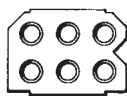
2



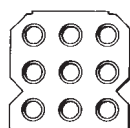
3b



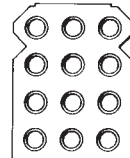
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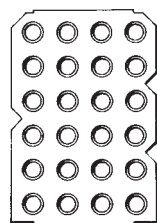
6



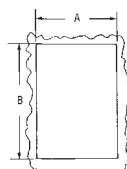
9



12



24 way=4 x 6  
36 way=4 x 9



Panel Cut-out  
Panel thickness=0.8-2.3

A x B	Hood Max Cable dia
2 way 11.4x11.6	8.4
3 way 16.5x11.6	8.4
4 way 21.7x11.6	9.9
6 way 16.5x16.7	8.1
9 way 16.5x21.6	9.1
12 way 16.7x26.7	9.1
24 way 21.7x36.9	12.7
36 way 47.2x26.7	15.7

Rectangular plastic shells offering a range from 2 to 36 way, available in chassis or free housings. The pin housings can be fitted with a hood for added safety. Strain relief is provided via a cable tie (not supplied).

Order Multiple=10

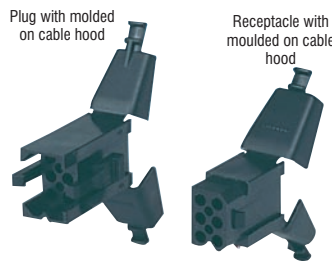
No. of Mfrs.	Price Each						
Ways	List No.	Order Code	10+	50+	100+	500+	1K+

Free Plug - Accepts Pin or Socket Contacts							
2	SMS2P1	365-2105 ●					
3	SMS3P1	365-2117 ●					
4	SMS4P1	365-2129 ●					
6	SMS6P1	365-2130 ●					
9	SMS9P1	365-2142 ●					
12	SMS12P1	365-2154 ●					
24	SMS24P1	365-2166 ●					
36	SMS36P1	365-2178 ●					

Chassis Socket - Accepts Pin or Socket Contacts							
2	SMS2R1	365-2180 ●					
3	SMS3R1	365-2191 ●					
4	SMS4R1	365-2208 ●					
6	SMS6R1	365-2210 ●					
9	SMS9R1	365-2221 ●					
12	SMS12R1	365-2233 ●					
24	SMS24R1	365-2245 ●					
36	SMS36R1	365-2257 ●					

Hoods for Free Plugs - (Supplied as 20 half mouldings per pack)							
6	SMS6H1	365-2294 ●					
9	SMS9H1	365-2300 ●					
12	SMS12H1	365-2312 ●					
24	SMS24H1	365-2324 ●					
36	SMS36H1	365-2336 ●					

## Qikmate with Moulded on Hood



- Moulded integral hood, reduces assembly time
- Receptable and plug housing have hoods
- Large cable exit, allows different cable diameters in some housing

Housing Black Polyamide 6,6  
Temperature range -55°C to +105°C

Mfrs. List No. Pin housing SHSxxPDHI, Socket housing SMSxxRDHI, where xx=no. of ways

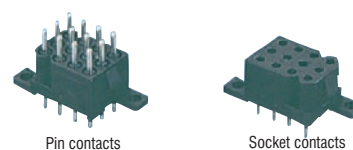
219709

No. of Ways	Order Code	1+	10+	100+	500+	1K+
-------------	------------	----	-----	------	------	-----

Free Plug - Accepts Pin or Socket Contacts						
2	535-813 ●					
3	535-825 ●					
4	535-837 ●					
6	535-849 ●					
9	485-7987 ●					
12	535-850 ●					
24	535-862 ●					
36	535-874 ●					

Free Socket - Accepts Pin or Socket Contacts						
2	537-822 ●					
3	537-834 ●					
4	537-846 ●					
6	537-858 ●					
9	485-7999 ●					
12	537-860 ●					
24	537-871 ●					
36	537-883 ●					

## PCB Mounting (Including Pins or Sockets)



The PCB mounting versions mount directly on 0.1" pitch PCB (pin spacing=5.08) and have mounting ears for better stability. Available in pin and socket contact options.

Current rating 5A  
 Contact resistance 6mΩ max  
 Housing Plating Temperature rating  
 Black Polyamide 6.6 3.8μ Tin -55°C to +105°C

Mfr. List No. Pin contacts = SMS xxE4TR29  
 Socket contacts = SMS xxRE3TR29 where xx=No of ways

208983

No. of Ways	Order Code	Price Each				
		1+	25+	100+	250+	500+
<b>Pin Contacts</b>						
2	240-126					
3	240-138					
4	240-140					
6	240-151					
9	240-163					
12	240-175					
24	240-187					
36	210-675					
<b>Socket Contacts</b>						
2	240-199					
3	240-205					
4	240-217					
6	240-229					
12	240-230					
24	240-242					
36	210-687					

### Metalok Bantam, Qikmate, UTG, UTO & UTS Contacts



The contacts are two part. The body is made of a highly conductive copper alloy with a stainless steel outer spring in either tin or gold plated options. Gold plated contacts do not oxidise and are therefore more suitable for use in corrosive atmospheres.

Contact rating 13A @ 750Vrms  
 Insulation resistance 6mΩ max.  
 Contacts Copper Alloy, Gold 1.5μ  
 Copper Alloy, Gold 0.25μ, over nickel 3μ

This also leads to lower contact pressure and are therefore suitable for larger way connectors. Both fit the 'Metalok Bantam', Qikmate', UTG & UTO housings.

209358

Order Multiple=25

Wire Size	Order Code	Price Each			
		25+	100+	500+	1K+
<b>Tin Plated Pins</b>					
18—16AWG, 0.8—1.5mm <sup>2</sup>	365-1927				
22—20AWG, 0.35—0.5mm <sup>2</sup>	365-1939				
26—24AWG, 0.13—0.25mm <sup>2</sup>	365-1940				
<b>Tin Plated Sockets</b>					
18—16AWG, 0.8—1.5mm <sup>2</sup>	365-1952				
22—20AWG, 0.35—0.5mm <sup>2</sup>	365-1964				
26—24AWG, 0.13—0.25mm <sup>2</sup>	365-1976				
<b>Gold Plated Pins</b>					
18—16AWG, 0.8—1.5mm <sup>2</sup>	365-1988				
22—20AWG, 0.35—0.5mm <sup>2</sup>	365-1990				
26—24AWG, 0.13—0.25mm <sup>2</sup>	365-2087				
<b>Gold Plated Sockets</b>					
18—16AWG, 0.8—1.5mm <sup>2</sup>	365-2002				
22—20AWG, 0.35—0.5mm <sup>2</sup>	365-2014				
26—24AWG, 0.13—0.25mm <sup>2</sup>	365-2099				

### Solid Machined Contacts



Gold plated solid machined crimp contacts suitable for heavy duty and high performance applications. The snap-in pins and sockets are colour coded for different wire sizes.

Contact rating 13A @ 750Vrms  
 Contact resistance 3mΩ max.  
 Contacts Copper Alloy, 0.4μ Gold plated

Mfrs. List No. RM16M23K = 365-2026, RC16M23K = 365-2051, RM20M12K = 365-2038, RC20M12K = 365-2063, RM24M9K = 365-2040, RC24M9K = 365-2075

209359

Wire size	Order Code	Price Each			
		25+	50+	250+	1K+
<b>Pins</b>					
20—16AWG, 0.52—1.5mm <sup>2</sup>	365-2026				
22—20AWG, 0.32—0.52mm <sup>2</sup>	365-2038				
26—24AWG, 0.13—0.2mm <sup>2</sup>	365-2040				
<b>Sockets</b>					
20—16AWG, 0.52—1.5mm <sup>2</sup>	365-2051				
22—20AWG, 0.32—0.52mm <sup>2</sup>	365-2063				
26—24AWG, 0.13—0.2mm <sup>2</sup>	365-2075				

### Sub-Miniature Coaxial Contacts

Coaxial pins and sockets are supplied in four piece parts, so that the inner and outer conductors can be crimped individually. Suitable for use with RG178 cable.

219770

Coaxial Kit	Order Code	Price Each			
		1+	100+	500+	1K+
MaleRMDXK10D28	105-953				
FemaleRCDXK1D28	105-954				

### Tooling



Two piece contact crimp tool  
 Machined and coaxial contact crimp tool  
 Extractor tool

Two high quality metal ratchet hand crimp tools. The machined and coaxial contact crimp tool requires a positioner for each contact. Coaxial contacts require both an inner and outer positioner.

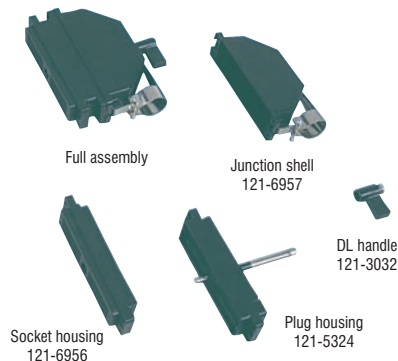
Crimp Tool Settings

Coaxial Contact		Machined Contact				
Inner	Outer	16AWG	20AWG	22AWG	24AWG	26AWG
1	8	8	6/7	5/7	6	5

209361

Order Code	Price Each
<b>Crimp Tools</b>	
Machined & coaxial contacts	105-992
<b>Positioners</b>	
Machined contact	151-779
Coaxial, inner	105-993
Coaxial, outer	105-994
<b>Extraction Tool</b>	
For all contacts	105-498

### 'DL' Zero Insertion Force Crimp 5A



Filling the need in test, computer and peripheral equipment field for low cost high performance multiple wire power and signal connection. Connection engagement force is zero, a quarter turn of the actuating shaft mates all the contacts at once with a wiping action, whilst also physically locking the connector halves together.

Contact rating 5A max  
 Contact resistance 15mΩ max.  
 Contact material Copper Alloy plated gold over nickel  
 Insulation resistance >MΩ  
 Dielectric withstanding voltage 1200V ac  
 Max temperature +70°C

Mfrs. List No. DL1156P = 121-5324, DL296R = 121-3029, 204-0016-000 = 121-3032, DL1156R = 121-6956, DL360P = 121-3030, DL1J/S = 121-6957, DL296P = 121-3028, DL360R = 121-3031, DL2J/S = 121-3033, DL3J/S = 121-3034

208984

Order Code	Price Each					
	1+	10+	25+	50+	100+	250+
<b>60 Way</b>						
Plug	121-3030					
Socket	121-3031					
Shell kit	121-3034					
<b>96 Way</b>						
Plug	121-3028					
Socket	121-3029					
Shell kit	121-3033					



## 'DL' Zero Insertion Force Crimp 5A - continued

	Order Code	Price Each					
		1+	10+	25+	50+	100+	250+
<b>156 Way</b>							
Plug	121-5324						
Socket	121-6956						
Shell kit	121-6957						
Actuating handle	121-3032						

## 'DL' Contacts and Polarising Kits



	Order Code	Price Per Pack				
		1+	5+	10+	25+	50+
<b>Crimp Contacts Pack of 100</b>						
24 to 26 AWG	121-3036					
28 to 32 AWG	118-6667					
<b>Polarising Kits</b>						
Corner mounting	121-5642					

## Tooling for 'DL' Connectors



Mfrs. List No. CHT-DLT=152-054, CCT-DLT1=152-055, CET-DL10=140-983

	Order Code	Price Each		
		1+	5+	10+
<b>Crimp Tools</b>				
20 to 26 AWG	152-054			
28 to 32 AWG	152-055			
Extraction Tool	140-983			

## 'M' Series

### Cable Connector Kits



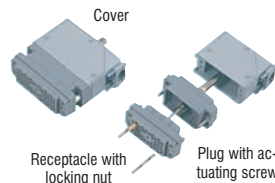
- Supplied as kit
- Meets requirements of ISO2593 for CCITT V.35 interfacing
- Approvals UL & CSA

Kit contains:  
1 Housing, 1 One piece shield, 2 Jackscrew, 1 Strain relief clamp, 4 mounting screws.

	Mfrs. List No.	Order Code	Price Each			
			1+	10+	100+	250+
Temperature range	-55°C to 150°C					
Housing	Chrome					
Covers	Anodised Aluminium					
Screws	Zinc Plated steel					
Jackscrews	Stainless steel					
Cable Clamp	Zinc plated steel					

219747

	Mfrs. List No.	Order Code	Price Each			
			1+	10+	100+	250+
<b>Plug</b>						
34	213300-1	357-546				
<b>Receptacle</b>						
34	213522-1	357-558				
<b>Order Multiple=10</b>						
			10+	100+	500+	
<b>Gold Plated Crimp Pins</b>						
18-16 AWG, 0.8-1.4mm <sup>2</sup>	66099-4	592-961				
<b>Gold Plated Crimp Sockets</b>						
18-16 AWG, 0.8-1.4mm <sup>2</sup>	66101-4	592-985				



A range of polarised multiple connectors for cable to panel and cable to cable applications. The connector bodies are manufactured in polycarbonate. The plug and receptacle bodies can be loaded with solder, mini wrap or crimp contacts as the application requires (all contacts fitting both the plug and receptacle). The actuating screw eases mating and unmating of connectors, and secures mated connectors together.

Polarising hardware permits 72 polarising combinations per contact pair. The covers are metal with a removable side plate, the cable clamp being adjustable to a top or side entry positions. Contacts are phosphor bronze, plate, gold over nickel.

Current Rating	8.5A max.	Dielectric strength	1800V rms
Contact Resistance	<6 mohm	Insulation Resistance	2500Mohm @ 500V dc
Colour	Grey		

630980

	Order Code	Price Each/Per Pack				
		1+	10+	50+	100+	250+
<b>Plug with Actuating Screw</b>						
20 pin	151-019					
38 pin	145-150					
56 pin	145-152					
90 pin	151-020					
120 pin	214-6979					
<b>Plug with Locking Nuts</b>						
20 pin	214-6971					
38 pin	214-6973					
56 pin	214-6974					
90 pin	214-6977					
120 pin	214-6980					
<b>Receptacle with Actuating Screw</b>						
20 pin	214-6972					
38 pin	661-351					
56 pin	214-6975					
90 pin	214-6978					
120 pin	214-6981					
<b>Receptacle with Locking Nuts</b>						
20 pin	151-021					
38 pin	145-151					
56 pin	160-8492					
90 pin	151-022					
120 pin	214-6982					
<b>Covers</b>						
20 pin	151-023					
38 pin	145-154					
56 pin	145-155					
90 pin	151-024					
120 pin	214-6983					
<b>Contacts (Pack of 100)</b>						
Solder eyelet	145-156					
Mini-wrap	145-157					
PCB	214-6986					
Crimp	133-9824					

## Tooling for '516' Connectors



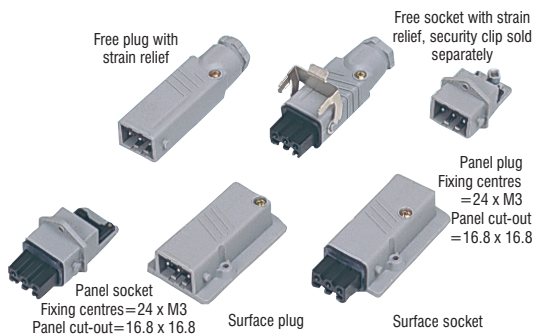
Mfrs. List Nos: 516-280-300F = 260-289  
516-280-201 = 170-3926  
516-280-300F = 260-289  
516-280-400 = 214-6984  
516-280-500 = 214-6985  
516-KIT-001 = 214-6987  
516-KIT-002 = 214-6989

224232

	Order Code	Price Each		
		1+	5+	10+
Extraction Tool	260-289			
Insertion Tool	214-6984			
Polarising Nut Driver	214-6985			
Ratchet Crimp Tool	170-3926			
<b>Insulator Kits (20 x Screws, 20 x Nuts, 20 x Washers)</b>				
For 20 way	214-6987			
For 38 & 56 way	214-6989			

## TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at [farnell.com](http://farnell.com)



- Compact, mains power connectors
- Ideal for power supplies lighting systems, small drives
- Impact proof glass-fibre reinforced polyamide construction
- Screw termination 2 and 3 way crimp termination 5 way version
- Panel and surface connectors supplied with sealing gaskets
- IP54 rated
- Approvals, SEV

Rating	16A @ 250V ac/dc	(2, 3 way)
	10A @ 250V ac/dc	(5 way)
Contact resistance	≤5 mΩ	(2, 3 way)
	≤10 mΩ	(5 way)
Temperature range	-30°C to +90°C	
Housing	Glass-fibre reinforced polyamid, <b>UL94-HB</b>	
Contact Bearer	Glass-fibre reinforced polyamid, <b>UL94V-1</b>	
Contacts	Brass, nickel/Tin plated	
	Brass, silver plated (5 way)	
Cable dia	4-6.5 mm (2 way)	
	6-10 mm (3-5 way)	
Termination	Screw (2, 3 way)	
	Crimp (5 way)	

209098/406597

Mfrs.	List No.	Order Code	1+	10+	25+	50+	100+	Price Each
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Free Plug								
2 + Earth without strain relief	STAS2	117-6403						
2 + Earth with strain relief	STAS20	117-6405						
3 + Earth with strain relief	STAS3N	117-6406						
5 + Earth with strain relief	STAS5	117-6408						

Free Socket								
2 + Earth without strain relief	STAK2	117-6409						
2 + Earth with strain relief	STAK20	117-6410						
3 + Earth with strain relief	STAK3N	117-6412						
5 + Earth with strain relief	STAK5	117-6413						

Panel Plug								
2 + Earth	STASEI2	495-013						
3 + Earth	STASEI3N	495-025						

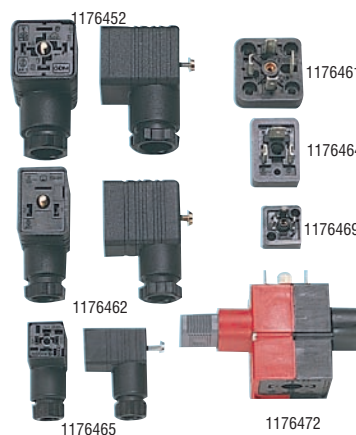
Panel Socket								
2 + Earth	STAKEI2	495-049						
3 + Earth	STAKEI3N	117-6415						
5 + Earth	STAKEI5	117-6416						

Surface Plug								
2 + Earth	STASAP2	117-6417						
3 + Earth	STASAP3N	117-6418						
5 + Earth	STASAP5	117-6421						

Surface Socket								
2 + Earth	STAKAP2	117-6422						
3 + Earth	STAKAP3N	117-6423						

5 Per Pack Security Clip								
			Price Per Pack					
Order Code	1+	10+	25+	50+	100+			
2 way	STASI2	495-130						

			Price Each						
Order Code	1+								
Crimp tool	XZC0701	540-961							
Ejector tool	XWA164	540-973							



Free plug DIN 43650A  
L=50, H=34  
Mating Face=27.5 x 27.5 (615-604)

Plug base DIN 43650A  
H=10 Mating Face, 30 x 30 (615-432)

Plug base DIN 43650B  
H=9 Mating Face, 21 x 18.6 (615-511)

Free plug DIN 43650B  
L=51, H=32  
Mating Face=28.6 x 20.8 (615-456)

Free plug DIN 43650C  
L=38, H=26  
Mating Face=15.8 x 15.8  
Contact pitch=8mm (615-523)

Plug base DIN 43650C  
H=8.5 Mating Face, 17 x 17 (615-560)

Test adaptor (616-114)

- For use with solenoid, pneumatic and hydraulic valves
- Can be incorporated into pressure transducers, level sensors, limit switches etc.
- Conforming to **DIN EN 175 301-803 A,B, or C** and manufactured to **SEV, UR CSA and DSRK. UL Recognised**
- Sealed to **IP65**
- Bases are supplied with earth screws where appropriate
- Test adaptor available for monitoring voltage and current (DIN 43650A only)
- Central screw provides vibration proof interlock with base

Rating	16A @ 250V ac/dc	DIN EN 175 301-803-A
	8A @ 250V ac/dc	DIN EN 175 301-803 with circuit
	10A @ 250V ac/dc	DIN EN 175 301-803-B
	8A @ 250V ac/dc	DIN EN 175 301-803-B with circuit
	6A @ 250V ac/dc	DIN EN 175 301-803-C
Contact resistance	≤4 mΩ	
Temperature range	-40°C to +125°C	
Material and Fire Properties	Glass-fibre reinforced polyamid/ <b>UL94-HB</b>	
Casing	Cu Zn, tin plated	
Contacts	1.5mm <sup>2</sup> DIN EN 175 301-803 A or B	
Cable cross section	0.75mm <sup>2</sup>	DIN EN 175 301-803-C
	3.5-7mm	PG9
Cable diameter	4.5-7mm	PG9
	6.0-9.0mm	PG11

204817

Number of pins	Mfrs. List No.	Order Code	1+	25+	50+	Price Each
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Free Plug, DIN EN 175 301-803-A						
2 + earth, PG9, Black	GDM 2009.BLACK	117-6452				
2 + earth, PG9, Grey	GDM2009.GREY	121-5298				
2 + earth, PG11, Black	GDM2011.BLACK	121-5299				
3 + earth, PG9, Black	GDM3009.BLACK	121-5300				
3 + earth, PG9, Grey	GDM3009.GREY	121-5301				
3 + earth, PG11, Black	GDM3011.BLACK	121-5302				
3 + earth, PG11, Grey	GDM3011.GREY	121-5303				
2 + earth, rectifier, PG11	GDML 2011 GB1 GRAU/GREY	117-6455				
2 + earth, LED230V, PG11	GDML2011LG230	117-6457				
2 + earth, LED120V, PG11	GDML2011LG120	117-6458				
2 + earth, LED24V, PG11	GDML2011LED24	117-6459				

Plug Base, DIN EN 175 301-803-A						
2 + earth,	GSA2000	117-6460				
3 + earth,	GSA3000	117-6461				
3 + PE		166-2991				

Free Plug, DIN EN 175 301-803-B						
2 + earth, PG9, Black	GMN209NJ.BLACK	117-6462				
2 + earth, LED24V, PG11	GMNL209 NJ LED 24 HH	117-6463				

Free Plug, DIN EN 175 301-803-C						
2+ earth, PG7, Black	GDSN207.BLACK	117-6465				
3+ earth, PG7, Black	GDSN307.BLACK	117-6466				

Plug base, DIN EN 175 301-803-C						
2+ earth,	GSSNA200	117-6469				
3+ earth,	GSSNA300	117-6471				

Order Multiple=5						
			5+	25+	50+	

Gasket	GDM3-16	810-710				
Gasket	GSA200-4NBR	138-8217				

Order Multiple=1						
Test adaptor	MESAP 43650	117-6472	1+	25+	50+	

\*With internal rectifier

Accessories						
Knurled Screw	GDM 3011-8	206-9607				
Stainless Steel Screw	GDM 3011 RF-1	206-9608				

## Rectangular Multipole - continued

### Valve Connectors

#### GDMF Series



**NEW**

Valve Connectors without LEDs

Valve Connectors with LEDs

With a height of just 26 mm, the connectors in protection class IP65/IP67 are a perfect fit in any given application. To guarantee the highest requirements of resistance to vibration and shock, the GDMF range also features the patented combi-contact known from the proven GDM series. The contact is designed for a wide range of cable gauges up to 1.5 mm<sup>2</sup> with diameters from 4.5 to 8 mm.

#### Product Features:-

- Flat design
- Non-slip surfaces on both sides
- Electronic inserts with function display and / or protective circuitry
- Patented combi-contact
- Captive seal
- VDE, UL, CSA Approved

#### Technical Specifications:-

Standard	EN 175301-803A / ISO 4400	Protection Class	IP65 / IP67
No. of pins	2+PE / 3+PE	Temperature Range	-40°C to +85°C
Wire gauge	1.5mm <sup>2</sup> max.	Thread	M3
Voltage Rating AC/DC	250V (without circuitry)	Current Rating AC/DC	16A (without circuitry)
Voltage Rating AC/DC	24, 120 & 250V (with circuitry)	Current Rating AC/DC	8A (with circuitry)
Housing	94 HB (UL94V-0)	Contact Support	UL94V-0
Connection	M16		

661784

No. of Ways	Voltage Rating	Mfrs. List No.	Order Code	1+	10+	25+	50+
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#### Without Circuitry

2P+E	250V	GDMF 2016 DAAA	206-9643				
3P+E	250V	GDMF 3016 DAAA	206-9644				

#### With Yellow LEDs

2P+E	24V	GDMF 2016 DBAA	206-9645				
2P+E	120V	GDMF 2016 DCAA	206-9646				
2P+E	250V	GDMF 2016 DEAA	206-9648				

#### With Yellow LEDs plus Suppression Diode

2P+E	24V	GDMF 2016 DFAA	206-9649				
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#### With Yellow LEDs plus Recovery Diode

2P+E	24V	GDMF 2016 DGAA	206-9650				
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## Automotive Specific Connectors

### USB Mini-B

#### HS Autolink



**NEW**



HSAutoLink is the emerging high-speed data bus for vehicles. Cable assemblies utilizing the USB Standard A receptacle provide shrouded and latching capabilities.

- No. of contacts: 5
- Max. voltage: 5V RMS
- Max. current per contact: 1A
- Lead length: 0.5m

613636

Polarity	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
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#### Header - Right Angle

A	49616-0711	182-4829					
B	49616-0715	182-4830					

#### Header - Vertical

A	104004-0501	182-4832					
B	104004-0505	182-4833					

1+ 5+ 10+ 25+ 50+

#### Lead - Type A to Mini B

A	111015-0100	182-4834					
B	111015-0101	182-4835					

#### Lead - Mini B - Male to Female

AA	111005-1010	182-4836					
AB	111005-1020	182-4837					
BA	111005-1030	182-4838					
BB	111005-1040	182-4839					

#### Lead - Mini B - Male to Male

AA	111014-5000	182-4840					
AB	111014-5001	182-4841					
BB	111014-5003	182-4842					

## DT Series



**NEW**

- Designed for vehicles used in the Construction, Off-road, Heavy Goods and Agricultural industries
- Specifically used in wire to wire applications on engine, transmission, chassis and cab
- Can also be used in harsh environments on signal level circuits
- Enhanced, environmental seal retention system
- Rugged thermoplastic housing
- Accepts standard or thin wall wire (1.35-3.05mm wire insulation dia.)
- Operating Temperature = -55°C to +125°C

618637

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
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#### Receptacles, Pin Contacts

2	DT042P-CE02	181-7011				
3	DT043P-CE02	181-7013				
4	DT044P-CE02	181-7014				
6	DT046P-CE02	181-7015				
8	DT048PA-CE02	181-7016				
12	DT0412PA-CE02	181-7017				

#### Plugs, Socket Contacts

2	DT062S-CE06	181-7018				
3	DT063S-CE06	181-7019				
4	DT064S-CE06	181-7020				
6	DT066S-CE06	181-7021				
8	DT068SA-CE10	181-7022				
12	DT0612SA-CE10	181-7023				

#### Receptacles, with Boot Adaptor, Pin Contacts

2	DT042P-CE09	181-7025				
3	DT043P-CE09	181-7026				
4	DT044P-CE09	181-7027				
8	DT048PA-CE09	181-7028				
12	DT0412PA-CE09	181-7029				

#### Plugs, with Boot Adaptor, Socket Contacts

2	DT062S-CE13	181-7030				
3	DT063S-CE13	181-7031				
4	DT064S-CE13	181-7032				
8	DT068SA-CE12	181-7033				
12	DT0612SA-CE12	181-7034				

#### Receptacles, Flange Mount, Pin Contacts

3	DT043P-CL06	181-7035				
4	DT044P-CL06	181-7037				
6	DT046P-CL06	181-7038				
8	DT048P-CL06	181-7039				
12	DT0412PA-CL06	181-7040				

#### Wedglock for Receptacles

2	W2P	181-7046				
3	W3P	181-7047				
4	W4P	181-7049				
6	W6P	181-7051				
8	W8P	181-7052				
12	W12P	181-7053				

#### Wedglock for Plugs

2	W2S-P012	181-7054				
3	W3S-P012	181-7055				
4	W4S-P012	181-7056				
6	W6S-P012	181-7057				
8	W8S-P012	181-7058				
12	W12S-P012	181-7059				

#### Backshells for Receptacles

2	1011-257-0205	181-7062				
3	1011-261-0305	181-7063				
4	1011-265-0405	181-7064				
6	1011-269-0605	181-7065				
8	1011-245-0805	181-7066				
12	1011-249-1205	181-7067				

#### Backshells for Receptacles, R/A

2	1011-258-0205	181-7068				
3	1011-262-0305	181-7069				
4	1011-266-0405	181-7070				
6	1011-270-0605	181-7071				
8	1011-246-0805	181-7072				
12	1011-250-1205	181-7074				

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
<b>Backshells for Plugs</b>						
2	1011-255-0205	181-7075				
3	1011-259-0305	181-7076				
4	1011-263-0405	181-7077				
6	1011-267-0605	181-7078				
8	1011-243-0805	181-7079				
12	1011-247-1205	181-7080				
<b>Backshells for Plugs, R/A</b>						
2	1011-256-0205	181-7081				
3	1011-260-0305	181-7082				
4	1011-264-0405	181-7083				
6	1011-268-0605	181-7084				
8	1011-244-0805	181-7086				
12	1011-248-1205	181-7087				
<b>Dust Caps for Plugs</b>						
For DT062S	1011-344-0205	186-7828				
For DT063S	1011-345-0305	186-7831				
For DT064S	1011-346-0405	186-7832				
For DT066S	1011-347-0605	186-7833				
For DT068S	1011-348-0805	186-7834				
For DT0612S	1011-349-1205	186-7835				
<b>Crimp Contacts, Pin, Sizes 12, 16 &amp; 20</b>						
#12 / 12-14 AWG	0460-204-12141	184-1929	10+	50+	100+	250+
#16 / 14-16 AWG	0460-215-16141	181-7042				
#16 / 16-18 AWG	0460-202-16141	181-7041				
#20 / 16-18 AWG	0460-010-20141	189-9536				
#20 / 20 AWG	0460-202-20141	184-1931				
<b>Crimp Contacts, Socket, Sizes 12, 16 &amp; 20</b>						
#12 / 12-14 AWG	0462-203-12141	184-1930				
#16 / 14-16 AWG	0462-209-16141	181-7044				
#16 / 16-18 AWG	0462-201-16141	181-7043				
#20 / 16-18 AWG	0462-005-20141	189-9537				
#20 / 20 AWG	0462-201-20141	184-1933				
<b>Sealing Plug, for unused positions</b>						
114017	181-7045		1+	50+	100+	250+
<b>Crimp Tool</b>						
HDT-48-00	181-7060		1+			

### HDP20



- Designed specifically for the truck, bus & off-highway industry
- Corrosion resistant all plastic shell
- Heavy duty rated, environmentally sealed
- Quick connect plug & single hole mounting receptacle reduce assembly time & installation costs
- Operating Temp = -55°C to +125°C

618628

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
<b>Receptacle, Jam Nut, Shell Size 18, Pin Contacts</b>						
8	HDP24-18-8PE	184-1921				
14	HDP24-18-14PE	184-1922				
<b>Plug, Shell Size 18, Socket Contacts</b>						
8	HDP26-18-8SE	184-1923				
14	HDP26-18-14SE	184-1924				
<b>Receptacle, Jam Nut, Shell Size 24, Pin Contacts, with Backshell Adaptor</b>						
19	HDP24-24-19PE-L017	184-1904				
31	HDP24-24-31PE-L017	184-1905				
47	HDP24-24-47PE-L017	184-1906				
<b>Plug, Shell Size 24, Socket Contacts, with Backshell Adaptor</b>						
19	HDP26-24-19SE-L017	184-1908				
31	HDP26-24-31SE-L017	184-1909				
47	HDP26-24-47SE-L017	184-1910				
<b>Receptacle, Jam Nut, Shell Size 24, Socket Contacts, with Backshell Adaptor</b>						
19	HDP24-24-19SE-L017	184-1911				
31	HDP24-24-31SE-L017	184-1912				
47	HDP24-24-47SE-L017	184-1913				
<b>Plug, Shell Size 24, Pin Contacts, with Backshell Adaptor</b>						
19	HDP26-24-19PE-L017	184-1914				
31	HDP26-24-31PE-L017	184-1915				
47	HDP26-24-47PE-L017	184-1916				
<b>Panel Nuts</b>						
Shell Size 18	2411-002-1805	184-1925	5+	50+	100+	
Shell Size 24	2411-001-2405	184-1917				

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	10+	50+
<b>Panel Washers</b>					
Shell Size 18	2414-002-1886	184-1926			
Shell Size 24	2414-001-2486	184-1918			
<b>Conduit Adaptors, Shell Size 24</b>					
Straight	2428-010-2405	184-1927	1+	10+	50+
R/A	2428-011-2405	184-1928			
<b>Crimp Pin Contacts, Pin Size / AWG</b>					
12 / 12-14	0460-204-12141	184-1929			
16 / 14-16	0460-215-16141	181-7042			
16 / 16-18	0460-202-16141	181-7041			
20 / 16-18	0460-010-20141	189-9536			
20 / 20	0460-202-20141	184-1931			
<b>Crimp Socket Contacts, Socket Size / AWG</b>					
12 / 12-14	0462-203-12141	184-1930			
16 / 14-16	0462-209-16141	181-7044			
16 / 16-18	0462-201-16141	181-7043			
20 / 16-18	0462-005-20141	189-9537			
20 / 20	0462-201-20141	184-1933			
<b>Sealing Plug, for unused positions</b>					
Size 20	0413-204-2005	184-1934	10+	100+	250+
<b>Dust Cap For HDP26-24 Plug</b>					
Size 24	HDC26-24	213-8289	1+	10+	50+
<b>Extraction Tool</b>					
Size 12	114010	184-1935			
Size 16	0411-204-1605	184-1936			
Size 20	0411-240-2005	184-1937			
<b>Crimp Tool, Sizes 12, 16, 20</b>					
HDT-48-00	181-7060		1+		

### AT Series

Amphenol



NEW

- High performance, cost effective connectors for use in demanding interconnect applications such as Heavy Equipment, Agricultural, Automotive, Military, & Alternative Energy
- Durable thermoplastic housings with excellent UV resistance
- Integral latching system
- Front and rear silicone sealing system prevents environmental ingress
- Operating Temp. = -55°C to +125°C

618705

No. of Ways	Mfrs. List No.	Order Code	Price Each				
			1+	10+	50+	100+	250+
<b>Receptacles, Pin Contacts</b>							
2	AT04-2P	182-3882					
3	AT04-3P	182-3883					
4	AT04-4P	182-3884					
6	AT04-6P	182-3885					
8	AT04-08PA	182-3886					
12	AT04-12PA	182-3888					
<b>Plugs, Socket Contacts</b>							
2	AT06-2S	182-3889					
3	AT06-3S	182-3890					
4	AT06-4S	182-3891					
6	AT06-6S	182-3892					
8	AT06-08SA	182-3893					
12	AT06-12SA	182-3894					
<b>Wedgelock for Receptacles</b>							
2	AW2P	182-3895					
3	AW3P	182-3897					
4	AW4P	182-3900					
6	AW6P	182-3902					
8	AW8P	182-3904					
12	AW12P	182-3907					
<b>Wedgelock for Plugs</b>							
2	AW2S	182-3896					
3	AW3S	182-3898					
4	AW4S	182-3901					
6	AW6S	182-3903					
8	AW8S	182-3906					
12	AW12S	182-3908					
<b>Crimp Contacts, S&amp;F, Pin, Size 16</b>							
16 AWG	AT60-16-0122	182-3909	1+	10+	50+	100+	
14 AWG	AT60-14-0122	182-3911					

# Automotive Specific Connectors - continued

## AT Series - continued

No. of Ways	Mfrs. List No.	Order Code	Price Each				
			1+	10+	50+	100+	250+
<b>Crimp Contacts, S&amp;F, Socket, Size 16</b>							
16 AWG	AT62-16-0122	182-3910					
14 AWG	AT62-14-0122	182-3912					
<b>Sealing Pin, for unused positions</b>							
	A114017	182-3915					

## AHD Series

Amphenol



NEW

- Designed specifically as a cost effective, reliable alternative, intermateable to industry standard 9 pin connectors
- Strong thermoplastic housing
- Silicone Elastomer sealing system prevents environmental ingress
- Operating Temp. = -55°C to +125°C

618709

No. of Ways	Mfrs. List No.	Order Code	Price Each				
			1+	10+	25+	50+	100+
<b>Plug, with Locking Ring, Military Style</b>							
9	AHD16-9-1939S	182-3916					
<b>Plug, with Locking Ring (Non J1939), Military Style</b>							
9	AHD16-9-96S	182-3918					
<b>Plug, with Smooth Shell, Diagnostic Grade™</b>							
9	AHD17-9-1939S	182-3919					
<b>Gender</b>							
	Mfrs. List No.	Order Code	10+	50+	100+	250+	
<b>Military-Style Solid Crimp Contacts, Size 12, 12-14 AWG</b>							
Pin	AT60-220-1231	182-3913					
Socket	AT62-210-1231	182-3914					

## APD 1 Way High Power Connectors



The APD 1 way connectors are derived from ISO 15170 and adapted to applications requiring high power. These versions cover wire ranges from 25mm<sup>2</sup> up to 35mm<sup>2</sup> power and a power consumption up to 245A. The combination of small size and high power make them an ideal solution for many applications.

NEW

### Applications

- Tail lifts
- On Board Kitchen

- Power Supply for Antennas and Base Stations
- Power Distribution in: Trucks and Tractors

Operating Voltage	48V dc	Coupling Torque	2Nm max.
Contact Resistance	0.4mΩ max.	Operating Temperature	-40°C to 125°C
Voltage Proof	1000V ac	IP Rating	IP67
Insulation Resistance	10MΩ min.	Housing Material	PBT GF
Mating Cycles	50	Sealing Material	HNBR

645782

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Plug</b>						
Blue	APD-5BSH	205-9863				
Red	APD-6BSH	205-9864				
<b>Receptacle</b>						
Blue	APD-5APH	205-9865				
Red	APD-6APH	205-9866				
<b>Jam Nut Receptacle</b>						
Blue	APD-5CPH	205-9867				
Red	APD-6CPH	205-9868				
<b>Crimp Socket - Silver Plated</b>						
4AWG	031-8521-010	205-9869				
2AWG	031-8521-020	205-9870				
<b>Crimp Socket - Brass Plated</b>						
4AWG	031-8531-011	205-9874				
2AWG	031-8531-012	205-9875				
<b>Crimp Pin - Silver Plated</b>						
4AWG	030-8614-010	205-9871				
2AWG	030-8614-020	205-9872				
<b>Crimp Pin - Silver Plated - Finger Protected</b>						
4AWG	120110-0220	205-9878				
2AWG	120110-0221	205-9879				

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Crimp Pin - Brass Plated</b>						
4AWG	030-8581-031	205-9876				
2AWG	030-8581-032	205-9877				
<b>Cable Seal</b>						
5.8mm to 7.4mm	351-8697-005	205-9880				
8.4mm to 10mm	351-8697-009	205-9881				
10.4mm to 12mm	351-8697-001	205-9882				
12.3mm to 13.5mm	351-8697-002	205-9883				
<b>Accessories</b>						
Hexagonal Nut	217-8516-010	205-9884				
Flange Gasket	075-8503-000	205-9886				
Adaptor for Flex Tube	980-8672-010	205-9887				
90° Endbell	980-8672-004	205-9888				
Hydraulic Crimp Tool	121586-5257	205-9904				
Crimp Die (16 to 50mm <sup>2</sup> )	121586-5229	205-9978				

## APD

### 2 Way High Power Connectors



NEW

The APD 2 way connectors are derived from ISO 15170 and adapted to applications requiring high power. These versions cover wire ranges from 6mm<sup>2</sup> up to 16mm<sup>2</sup> power and a power consumption up to 245A. The combination of small size and high power make them an ideal solution for many applications.

### Applications

- Tail lifts
- On Board Kitchen

- Power Supply for Antennas and Base Stations
- Power Distribution in: Trucks and Tractors

Operating Voltage	48V dc	Coupling Torque	2Nm max.
Contact Resistance	2mΩ max.	Operating Temperature	-40°C to 125°C
Voltage Proof	1000V ac	IP Rating	IP67
Insulation Resistance	10MΩ min.	Housing Material	PBT GF
Mating Cycles	50	Sealing Material	HNBR

645785

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Plug</b>						
Black	APD-1BSH8-2	205-9889				
<b>Receptacle</b>						
Black	APD-1APH8-2	205-9890				
<b>Jam Nut Receptacle</b>						
Black	APD-1CPH8-2	205-9891				
<b>Crimp Pin - Silver Plated</b>						
6mm <sup>2</sup>	430-8645-000	205-9892				
10mm <sup>2</sup>	430-8645-009	205-9893				
16mm <sup>2</sup>	430-8645-007	205-9894				
<b>Crimp Socket - Silver Plated</b>						
6mm <sup>2</sup>	031-8646-010	205-9895				
10mm <sup>2</sup>	031-8646-011	205-9896				
16mm <sup>2</sup>	031-8646-001	205-9898				
<b>Cable Sealing Set</b>						
4.2mm to 5.8mm	121583-1001	205-9900				
6.8mm to 8.3mm	121583-1003	205-9901				
<b>Accessories</b>						
6mm <sup>2</sup> Wire Seal	121668-0035	205-9899				
Adaptor for Flex Tube	980-8672-010	205-9887				
90° Endbell	980-8672-004	205-9888				
Flange Gasket	075-8503-000	205-9886				
Hand Crimp Tool	121586-5244	205-9902				
Hydraulic Crimp Tool	121586-5257	205-9904				
6 to 10mm <sup>2</sup> Crimp Die	120090-0165	205-9905				
16mm <sup>2</sup> Crimp Die	120090-0171	205-9906				

## APD

### 4 Way Connectors



NEW



Code 5



Code 6

The APD 4 way connectors are the original DIN72585 (now ISO 15170) versions using a 2.5mm contact system. Designed for automotive applications they also meet the requirements of transportation, off-road and special vehicle markets.

### Applications

- Sensors
- Traction / Skid Control

- Brake Control
- Magnetic Switch Control Systems



● Lighting systems on Trucks and Trailers

Operating Voltage	Standard: 48V dc High Voltage: 500V ac/dc	Coupling Torque	1.2Nm max.
Contact Resistance	5mΩ max.	Operating Temperature	-40°C to 125°C
Voltage Proof	Standard: 1000V ac High Voltage: 3500V ac	IP Rating	IP67
Insulation Resistance	10MΩ min.	Housing Material	PBT GF
Mating Cycles	50	Sealing Material	HNBR

645786

Description	Mftrs. List No.	Order Code	Price Each		
			1+	10+	25+
<b>Plug - Standard</b>					
Black	APD-1BS-K2	205-9907			
Grey	APD-2BS-K2	205-9908			
Green	APD-3BS-K2	205-9909			
Blue	APD-4BS-K2	205-9910			
<b>Flange Receptacle - Standard</b>					
Black	APD-1AP-K2	205-9911			
Grey	APD-2AP-K2	205-9912			
Green	APD-3AP-K2	205-9913			
Blue	APD-4AP-K2	205-9914			
<b>Jam Nut Receptacle - Standard</b>					
Black	APD-1CP-K2	205-9916			
Grey	APD-2CP-K2	205-9917			
Green	APD-3CP-K2	205-9918			
Blue	APD-4CP-K2	205-9919			
<b>Plug - High Voltage</b>					
Code 5	APD-59BS-HV	205-9920			
Code 6	APD-69BS-HV	205-9921			
<b>Flange Receptacle - High Voltage</b>					
Code 5	APD-59AP-HV	205-9922			
Code 6	APD-69AP-HV	205-9923			
<b>Crimp Socket</b>					
0.5 to 1.5mm <sup>2</sup>	APK-SB25A10-002-EINZEL	205-9924	1+	10+	50+
1.5 to 2.5mm <sup>2</sup>	APK-SB25A25-002-EINZEL	205-9925			
<b>Crimp Pin</b>					
0.5 to 1.5mm <sup>2</sup>	APK-PB25A10-002-EINZEL	205-9926	1+	10+	50+
1.5 to 2.5mm <sup>2</sup>	APK-PB25A25-002-EINZEL	205-9928			
<b>Accessories</b>					
8.5mm Endbell	058-8578-100	205-9929			
10mm Endbell	058-8578-102	205-9930			
8.5mm 90° Endbell	058-8578-101	205-9931			
10mm 90° Endbell	058-8578-103	205-9932			
1.4 to 2mm Wire Seals	121668-0032	205-9933			
2.1 to 2.9mm Wire Seals	121668-0033	205-9934			
Wire Filler	121668-0034	205-9935			
Flange Gasket	075-8503-000	205-9886			
0.5 to 1mm <sup>2</sup> Crimp Tool	121586-5242	205-9936			
Contact Extraction Tool	121086-3278	205-9937			

**APD**  
7 Way Connectors



**NEW**



The APD 7 way connectors are the original DIN72585 (now ISO 15170) versions using a 1.6mm contact system. Designed for automotive applications they also meet the requirements of transportation, off-road and special vehicle markets.

**Applications**

- Sensors
- Brake Control
- Traction / Skid Control
- Magnetic Switch Control Systems
- Lighting systems on Trucks and Trailers

Operating Voltage	48V dc	Coupling Torque	1.2Nm max.
Contact Resistance	5mΩ max.	Operating Temperature	-40°C to 125°C
Voltage Proof	1000V ac	IP Rating	IP67
Insulation Resistance	10MΩ min.	Housing Material	PBT GF
Mating Cycles	50	Sealing Material	HNBR

645828

Description	Mftrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Plug</b>						
Black	APD-1BS7	205-9938				
<b>Jam Nut Receptacle</b>						
Black	APD-1CP7	205-9941				
<b>Flange Receptacle</b>						
Black	APD-1AP7	205-9942				
<b>Crimp Socket</b>						
0.75 to 1.5mm <sup>2</sup>	192900-0003	205-9943	1+	10+	50+	100+
<b>Crimp Pin</b>						
0.75 to 1.5mm <sup>2</sup>	192900-0002	205-9944				

Description	Mftrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Accessories</b>						
1.4 to 2mm Wire Seals	121667-0022	205-9945				
1.9 to 2.1mm Wire Seals	121667-0023	205-9946				
1.2 to 1.6mm Wire Seals	121667-0024	205-9947				
Wire Filler	121667-0025	205-9948				
<b>Flange Gasket</b>						
	075-8503-000	205-9886				
<b>Hand Crimp Tool</b>						
	121586-5237	174-0792				
<b>Extraction Tool</b>						
	192922-1450	380-6959				

**APD**  
19 Way Connectors



The APD 19 way is based on ISO 15170, a secondary lock further enhances its harsh environment capabilities.



**NEW**

**Applications**

- Trucks, Busses, and Tractors
- Chassis wire-to-wire and Cabin pass through
- Motor / Electronic Control Units
- Industrial automation and instrumentation
- Transmission

Operating Voltage	48V dc	Coupling Torque	3.5Nm max.
Contact Resistance	5mΩ max.	Operating Temperature	-40°C to 125°C
Voltage Proof	1000V ac	IP Rating	IP67
Insulation Resistance	10MΩ min.	Housing Material	PBT GF
Mating Cycles	50	Sealing Material	HNBR

645829

Description	Mftrs. List No.	Order Code	Price Each		
			1+	10+	25+
<b>Plug</b>					
Black	APD-1BS19S	205-9949			
Grey	APD-2BS196	205-9950			
<b>Flange Receptacle</b>					
Black	APD-1AP19S	205-9951			
Grey	APD-2AP19S	205-9953			
<b>Crimp Socket</b>					
0.35 to 0.75mm <sup>2</sup>	APK-SA16A07-002-B	205-9954	1+	10+	50+
0.75 to 1.5mm <sup>2</sup>	APK-SA16A15-002-B	205-9955			
<b>Crimp Pin</b>					
0.35 to 0.75mm <sup>2</sup>	APK-PA16A07-002-B	205-9956			
0.75 to 1.5mm <sup>2</sup>	APK-PA16A15-002-B	205-9957			
<b>Accessories</b>					
1.4 to 2mm Wire Seals	121667-0022	205-9945			
1.9 to 2.1mm Wire Seals	121667-0023	205-9946			
1.2 to 1.6mm Wire Seals	121667-0024	205-9947			
Wire Filler	121667-0025	205-9948			
<b>Endbell</b>					
	044-8597-002	205-9960			
<b>Flange Gasket</b>					
	075-8566-003	205-9961			
<b>Receptacle Release Tool</b>					
	121586-5234	205-9958			
<b>Plug Release Tool</b>					
	121586-5235	205-9959			
<b>Crimp Tool, 0.35 to 1.5mm<sup>2</sup></b>					
	121586-5156	205-9972			
<b>Crimp Die, 0.75 to 1.5mm<sup>2</sup></b>					
	121586-5197	205-9973			

**APD**  
51 Way Connectors with Secondary Lock



The APD 51 way is a highly reliable multi-pin connector with signal contacts. It has secondary lock for added security and visual colour coding options to avoid mis-mating. According to ISO 15170, the connector is dedicated for harsh environmental usage.



**NEW**

Operating Voltage	48V dc	Coupling Torque	4.5Nm max.
Contact Resistance	5mΩ max.	Operating Temperature	-40°C to 125°C
Voltage Proof	1000V ac	IP Rating	IP67
Insulation Resistance	10MΩ min.	Housing Material	PBT GF
Mating Cycles	40	Sealing Material	FKM

# Automotive Specific Connectors - continued

## APD - continued

### 51 Way Connectors with Secondary Lock - continued

Description	Mftrs.	Order Code	Price Each		
	List No.		1+	10+	25+
<b>Plug</b>					
Green	APD-1BP51S	205-9962			
Yellow	APD-2BP51S	205-9963			
Brown	APD-3BP51S	205-9965			
Purple	APD-4BP51S	205-9966			
<b>Receptacle</b>					
Green	APD-1CS51S	205-9967			
Yellow	APD-2CS51S	205-9968			
Brown	APD-3CS51S	205-9969			
Purple	APD-4CS51S	205-9970			
<b>Crimp Socket</b>					
0.35 to 0.75mm <sup>2</sup>	APK-SA16A07-002-B	205-9954	1+	10+	50+
0.75 to 1.5mm <sup>2</sup>	APK-SA16A15-002-B	205-9955			
<b>Crimp Pin</b>					
0.35 to 0.75mm <sup>2</sup>	APK-PA16A07-002-B	205-9956			
0.75 to 1.5mm <sup>2</sup>	APK-PA16A15-002-B	205-9957			
<b>Accessories</b>					
Endbell	120110-0075	205-9971	1+	10+	25+
Crimp Tool, 0.35 to 1.5mm <sup>2</sup>	121586-5156	205-9972			
Crimp Die, 0.75 to 1.5mm <sup>2</sup>	121586-5197	205-9973			

## CMC Hybrid Connector



**NEW** molex

The CMC connector family from Molex is a sealed, high-density connection system developed for the transportation industry. It is designed to perform in high-conductivity applications and in harsh environments.

- Pitch Spacing: 2.54mm
- Operating temperature range: -40°C to +125°C
- Housing material: Polyester
- Number of ways per port: 48
- Power signal configuration: 8 power + 40 signal

Description	Mftrs.	Order Code	Price Each			
	List No.		1+	10+	50+	100+
<b>Header</b>						
Single Port	36638-0002	183-0389				
Double Port	36638-0001	183-0390				
<b>Receptacle - Single Port</b>						
Left Wire	64320-1311	183-0391				
Right Wire	64320-3311	183-0392				
<b>Cover</b>						
Cap	64319-1201	183-0395				
<b>Plug</b>						
64325-1023	183-0396		10+	100+	250+	500+
<b>Crimp Terminal</b>						
0.5mm <sup>2</sup>	64322-1039	183-0393				
0.75mm <sup>2</sup>	64322-1029	183-0394				
<b>Tools</b>						
Extraction Tool	63813-2400	183-0397				
Crimp Tool	63811-9200	183-0398				

## SRC Heavy Duty Connector System



**molex**

- The SRC is a rugged, environmentally sealed connector system, supporting both low-level signals as well as current up to 40A
- Pre-assembled connector housing, seals, TPA components and matte-seal cap shipped in one piece provide labour and cost savings
- Easy terminal insertion and extraction ensure quick, low-cost field repairs

- Integral, two-way matte and interface seals exceeds IP69K waterproof demands
- Superior electrical and mechanical performance capabilities to other competitive products in the market
- Simple crimp, poke and plug application eliminates the need to crimp individual wire seals
- Unused circuits can be blocked using plastic seal plugs

### Specifications:-

No. of Ways	84	Material Resin	Nylon
No. of Rows	14	Pitch	0.3mm
Max. Current	40A	Operating Temp.	-40°C to 125°C

Ways	Mftrs. List No.	Order Code	Price Each			
			1+	5+	10+	25+
<b>Sealed Rectangular Receptacle</b>						
84	85070-0500	171-5386				
<b>Sealed Rectangular Plug</b>						
84	85071-0100	171-5387				
<b>Blade Terminal - Tin</b>						
14 AWG	33000-1001	171-5388	10+	100+	250+	500+
16-20 AWG	33000-1002	171-5389				
<b>Socket Terminal - Tin</b>						
18-20 AWG	33012-3002	171-5391				
<b>Hand Crimp Tool - Blade Terminals</b>						
14-16 AWG	63811-2400	171-5393	1+	3+		
18-22 AWG	63811-2600	171-5394				
<b>Hand Crimp Tool - Socket Terminals</b>						
14-16 AWG	63811-5900	171-5395				
18-22 AWG	63811-6000	171-5396				
<b>Extraction Tool</b>						
	63813-1500	158-0458	1+			

## Mini-Fit H20™ Sealed Interconnect System

**molex**

### 4.2mm Pitch



- IP67 rated connector ensures a water and dust tight interconnection for use in outdoor applications
- Socket and plug housings have interface and wire seals pre-installed to lower applied costs and assembly time
- Positive locking system ensures the connectors are securely mated
- UV stabilised, moulded materials can be used in applications exposed to direct sunlight
- Small overall profile enables use in tight spaces
- 18-20 AWG

### Specifications:-

Current Per Circuit	9A	Voltage Rating	600V
Contact Material	Copper Alloy	Contact Plating	Tin
Housing Material	Polyester	Flammability Rating	UL94V-0
No. of Mating Cycles	75	Operating Temperature	-40°C to 105°C

541573

Ways	Mftrs. List No.	Order Code	Price Each			
			1+	10+	100+	500+
<b>Socket Assembly</b>						
2	46064-0032	173-8140				
<b>Plug Assembly</b>						
2	46065-0032	173-8141				
<b>Crimp Socket - Reel</b>						
18-20 AWG	46055-0005	173-8142	100+	1K+	4K+	
<b>Crimp Pin - Reel</b>						
18-20 AWG	46056-0002	173-8144				
<b>Crimp Socket - Loose Pieces</b>						
18-20 AWG	46055-0007	173-8143	50+	500+	1K+	
<b>Crimp Pin - Loose Pieces</b>						
18-20 AWG	46056-0004	173-8145				
<b>Crimp Tool</b>						
18-20 AWG	63819-1800	173-8146				1+

## Small Waterproof Relay Connectors

**JAE**

### MX19 Series



These small waterproof relay connectors are designed for use in automotive applications. The connectors are built to withstand harsh environments, and improve harness assembly thanks to a grommet with a rear cover.

### Features:-

- Mechanical lock mechanism prevents incomplete mating, and improves insertion and removal
- Rear cover protects the grommet from damage during terminal insertion, withstands cable flaps, and improves waterproof reliability
- Terminals have a two-plate spring mechanism with long beam length, which results in low force insertion and stress dispersion
- The highly reliable contact mechanism withstands vibrations caused by automobiles

<b>Specifications:-</b>	5A	Withstanding Voltage	1000VAC for 1 min.
Current Rating	Copper Alloy	Insulator Material	PBT (Polybutylene terephthalate)
Contact Material	Silicon Rubber	Sealing Ring Material	Silicon Rubber
Grommet Material		Contact Resistance	10mohm
Insulation Resistance	0.3-0.5mm <sup>2</sup>	Pitch	2.5mm
Conductor Cross Section	20-22	Water Proofing	Compliant with JIS D0203 S1
AWG			
Operating Temperature	-40°C to 105°C		

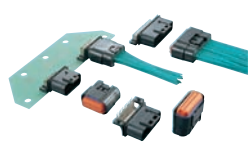
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No. of Ways	Mftrs. List No.	Order Code	10+	25+	50+	100+	500+
<b>Plugs</b>							
2	MX19002P51	171-4626					
4	MX19004P51	171-4628					
<b>Sockets</b>							
2	MX19002S51	171-4627					
4	MX19004S51	171-4629					
<b>Plug Contact</b>							
			100+	1K+	10K+		
20-22 AWG MX19P10K451 171-4630							
<b>Socket Contact</b>							
20-22 AWG MX19S10K451 171-4631							

### Wire to Board Waterproof Connectors MX23A Series



**NEW**



- MX23A are waterproof (IP67) connectors designed for use in automobiles & motorcycles
- Low profile height - PCB side = 18.3mm, socket height = 22.2mm
- Double fin structure contacts for high reliability

- Front cap fitting ensures contacts fully inserted
- Waterproof seal & grommet for increased water resistance

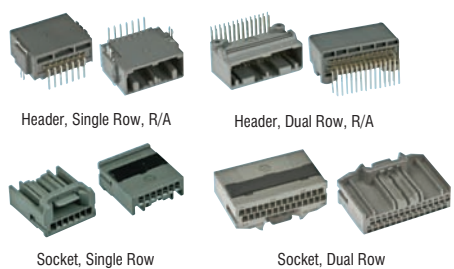
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No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+	250+
<b>Header - Right Angle, IP67</b>							
12	MX23A12NF1	181-5685					
18	MX23A18NF1	181-5686					
26	MX23A26NF1	181-5687					
34	MX23A34NF1	181-5688					
40	MX23A40NF1	NEW 191-2520					
<b>Socket - Right Angle, IP67</b>							
12	MX23A12SF1	181-5689					
18	MX23A18SF1	181-5690					
26	MX23A26SF1	181-5691					
34	MX23A34SF1	181-5692					
40	MX23A40SF1	NEW 191-2521					
<b>Front Retainer Cap</b>							
12	MX23A12XF1	181-5693					
18	MX23A18XF1	181-5694					
26	MX23A26XF1	181-5695					
34	MX23A34XF1	181-5697					
40	MX23A40XF1	NEW 191-2522					
<b>Dummy Pin, for unused positions</b>							
	M120-55780	181-5698	1+	100+	250+	500+	+
<b>Crimp Contact, Socket, 0.5-1.25mm<sup>2</sup></b>							
	M23S05K351	181-5699					
<b>Crimp Hand Tool</b>							
	CT160-3B-MX23A	181-5700	1+				

### PCB to Cable Automotive Connectors MX34 Series



**NEW**



- MX34 are non-waterproof connectors designed for automotive use
- Compact and lightweight PCB to Cable connectors
- 2.2mm horizontal pitch and 3mm diagonal pitch (dual row)
- Double locking mechanism
- With up to 40 poles the mating and unmating force is reduced to 80N or less
- Contact parts are highly resistant to twisting and equipped with a proven double leaf spring

618728

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+	250+
<b>Header - Single Row, R/A</b>							
3	MX34003NF1	182-7219					
5	MX34005NF1	182-7220					
7	MX34007NF1	182-7221					
<b>Header - Dual Row, R/A</b>							
12	MX34012NF1	182-7222					
16	MX34016NF1	182-7223					
20	MX34020NF1	182-7225					
24	MX34024NF1	182-7226					
28	MX34028NF2	182-7227					
32	MX34032NF2	182-7228					
36	MX34036NF2	182-7229					
40	MX34040NF2	182-7230					
<b>Header - Single Row, Vertical</b>							
5	MX34005UF1	182-7231					
7	MX34007UF1	182-7232					
<b>Header - Dual Row, Vertical</b>							
12	MX34012UF1	182-7233					
16	MX34016UF1	182-7234					
20	MX34020UF1	182-7235					
24	MX34024UF1	182-7237					
28	MX34028UF2	182-7238					
32	MX34032UF2	182-7239					
36	MX34036UF2	182-7240					
40	MX34040UF2	182-7241					
<b>Header - Dual Row, Vertical, SMT</b>							
12	MX34R12VF1	NEW 191-2523					
20	MX34R20VF1	NEW 191-2524					
32	MX34R32VF1	NEW 191-2526					
<b>Socket - Single Row, Vertical</b>							
3	MX34003SF1	182-7242					
5	MX34005SF1	182-7243					
7	MX34007SF1	182-7244					
<b>Socket - Dual Row, Vertical</b>							
12	MX34012SF1	182-7245					
16	MX34016SF1	182-7246					
20	MX34020SF1	182-7247					
24	MX34024SF1	182-7249					
28	MX34028SF1	182-7251					
32	MX34032SF1	182-7252					
36	MX34036SF1	182-7253					
40	MX34040SF1	182-7254					
<b>Crimp Socket Contacts</b>							
	0.22-0.35mm <sup>2</sup> M34S75C4F1	182-7255	10+	50+	100+	500+	1K+
	0.5-0.75mm <sup>2</sup> M34S75C4F2	182-7256					
<b>Crimp Hand Tool</b>							
	CT150-2-MX34	182-7257	10+				

### Compact Waterproof Automotive Connectors MX44 Series



**NEW**



- Features :**
- 3.5 mm side pitch, single row, compact waterproof (IP67) board to wire connector
  - Connector size reduced by waterproof structure with tight sealing rubber in the mating area
  - Vibration resistance
  - Operating temperature : -40°C to +125°C
  - Rated current: 3A

638065

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+	250+
<b>Header - Right Angle, IP67</b>							
2	MX44002NF1	191-2505					
4	MX44004NF1	191-2506					
6	MX44006NF1	191-2507					
<b>Socket Housing, IP67</b>							
2	MX44002SF1	191-2508					
4	MX44004SF1	191-2509					
6	MX44006SF1	191-2510					
<b>Retainer</b>							
2	MX44002XR1	191-2511					
4	MX44004XR1	191-2512					
6	MX44006XR1	191-2514					
<b>Wire Seal</b>							
	0.35 mm <sup>2</sup> MX44000XP1	191-2515	10+	25+	50+	100+	250+
	0.5 mm <sup>2</sup> MX44000XP2	191-2516					

# Automotive Specific Connectors - continued

## Compact Waterproof Automotive Connectors - continued

### MX44 Series - continued

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+	250+
<b>Crimp Socket Contact</b>							
20-22 AWG M44S05K4F1	191-2517	●	100+	250+	500+	1K+	
<b>Extraction Tool</b>							
ET-MX44-1	191-2518		1+				
<b>Hand Crimp Tool</b>							
CT150-2-MX44	191-2519		1+				

## RCY Connectors

### 2.5mm Pitch



The RCY connector is a compact, 2.5mm pitch wire-to-wire connector for use with a variety of circuits, from signal circuits to power supply circuits, in electrical equipment which is becoming more and more compact. The employment of a free spring contact method ensures stable contact performance, and superb working efficiency of insertion and removal.

#### Specifications:-

Current Rating	3A	Voltage Rating	250V
Contact Resistance	10mΩ Max.	Insulation Resistance	500MΩ Min.
Housing Material	PA66	Withstanding Voltage	1500V ac/min.
Flammability Rating	UL94V-2 (Red) / UL94V-0 (White)	Operating Temperature	-25°C to +85°C

601517

#### Order Multiple = 10

No. of Ways	Colour	Mftrs. List No.	Order Code	10+	100+	500+	1K+
<b>Receptacle Housing</b>							
2	Red	SYR-Q2T	177-8062	●			
2	White	SYR-Q2TV	177-8064	●			
<b>Plug Housing</b>							
2	Red	SYP-Q2T-1	177-8063	●			
2	White	SYP-Q2TV-1	177-8065	●			
<b>Contacts, 22-28 AWG</b>							
Pin	BYM-001T-P0.6	335-7661	●	10+	50+	100+	500+
Socket	BYF-001T-P0.6	177-8066	●				
<b>Order Multiple = 1</b>							
Crimp Tool	WC-121	335-7946		1+	5+		

## Superseal 1.5 Series



- A series which meets the need of the electrical connection field
- Fulfills the requirements prescribed by various automotive and industrial standards
- Can be connected with existing components and devices used in the automotive industry
- Sturdy and reliable contacts
- A combination of housing, wire seal and contacts
- IP67 rated, exceeds the requirements prescribed by IEC 529 and DIN40050

#### Receptacle Contact

Material	Phosphor bronze, tin plated
Current rating	14A max.
Wire range	1.4-1.7mm (insulation dia.) 22-20AWG 1.8-3.3mm (insulation dia.) 20-16AWG

#### Tab Contact

Material	Brass, tin plated
Current rating	14A max.
Wire range	1.4-1.7mm (insulation dia.) 22-20AWG 1.8-3.3mm (insulation dia.) 20-16AWG

#### Connectors

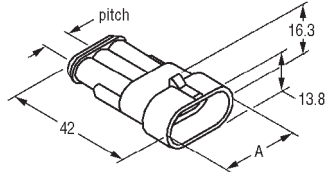
Dielectric withstand voltage	1500Vrms
Insulation resistance	200ΩMohm
Temperature Range	-40°C to +125°C

#### Wire Seals

Material	Silicon rubber
----------	----------------

227358

## Tab Connectors



#### Connectors

Dielectric withstand voltage	1500Vrms	Temperature range	-40°C to +125°C
Insulation resistance	MΩ	Material (housing and secondary lock)	Polyamide 6.6 GF
		Sealing	Silicon Rubber

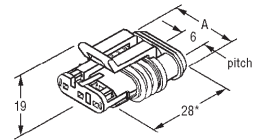
No. of Ways	Mftrs. List No.	Dimension A (mm)	Wire Seal	Wire dia. (mm)	Order Code
1	282103-1	13.8	281934-4	1.4-1.7	150-642
2	282104-1	19.8	281934-2	1.8-2.4	150-654
3	282105-1	25.8	281934-2	1.8-2.4	150-678
4	282106-1	31.8	281934-3	2.6-3.3	150-680
5	282107-1	37.8	281934-3	2.6-3.3	150-885
6	282108-1	43.8	281934-3	2.6-3.3	150-897

209254

#### Order Multiple=5

No. of Ways	Mftrs. List No.	Order Code	5+	50+	100+	500+	1K+
1	282103-1	150-642	●				
2	282104-1	150-654	●				
3	282105-1	150-678	●				
4	282106-1	150-680	●				
5	282107-1	150-885	●				
6	282108-1	150-897	●				

## Plug Connector



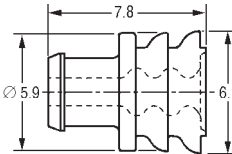
No. of Ways	Mftrs. List No.	Dimension A (mm)	Wire Seal	Wire dia. (mm)	Order Code
1	282079-2	9.3	281934-4	1.4-1.7	150-393
2	282080-1	15.3	281934-2	1.8-2.4	150-400
3	282087-1	21.3	281934-2	1.8-2.4	150-423
4	282088-1	27.3	281934-3	2.6-3.3	150-435
5	282089-1	33.3	281934-3	2.6-3.3	150-447
6	282090-1	39.3	281934-3	2.6-3.3	150-472

209255

#### Order Multiple=5

No. of Ways	Mftrs. List No.	Order Code	5+	50+	100+	500+
1	282079-2	150-393	●			
2	282080-1	150-400	●			
3	282087-1	150-423	●			
4	282088-1	150-435	●			
5	282089-1	150-447	●			
6	282090-1	150-472	●			

## Wire Seal



- Seals shaped for ease of insertion in the cavity
- Collar in crimping area provides excellent strain on the terminals
- Suitable for wire with insulation diameter from 1.5 to 3.3mm

#### Wire Seal

Material	Silicon Rubber
----------	----------------

209256

Colour	Mftrs. List No.	Order Code	10+	50+	100+	500+	1K+
<b>Wire Seal</b>							
Green	281934-4	150-915	●				
Red	281934-3	150-964	●				
<b>Contacts</b>							
Pin 22-20 AWG	183036-1	151-038	●				
Pin 20-15 AWG	183024-1	151-040	●				
Skt 22-20 AWG	183035-1	151-063	●				
Skt 20-15 AWG	183025-1	151-075	●				
<b>Crimp Tool</b>							
Pro Crimp	58583-1.	151-087		1+			

**Tyco Electronics**

## SDE Die and Tooling options available See Web

## Modular Integrated Connector Enclosures

### ModICE

#### SHS Harness Connector



- Push to seat terminal
- Secondary lock for positive seating
- Multiple keyed 18 and 30 position
- Protective backplate
- Center thread jackscrew mating

ModICE Header	Harness Connector to use with Header	
SE18	128-2205	-
SE30	128-2208	-
SE48	128-2205	128-2208
LE30	128-2208	-
LE48	128-2205	128-2208
LE60	128-2206	128-2208

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	50+
<b>SHS Harness Connector</b>						
18	5810118023	128-2205				
30	5810130028	128-2206				
30 Alt. Keyed	5810130029	128-2208				

#### Contacts and Tooling

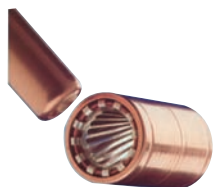
Ø mm	Mftrs. List No.	Order Code	1+	10+	25+	50+
<b>Crimp Contacts (200 per reel)</b>						
0.5 - 0.8mm <sup>2</sup>	4250000872	128-2209				
0.8 - 1.5mm <sup>2</sup>	4250000873	128-2210				

			Price per pack (100)			
	Mftrs. List No.	Order Code	1+	10+	25+	50+
<b>Cavity Filler</b>						
Plug	5810000011	128-2218				

			Price Each			
	Mftrs. List No.	Order Code	1+	10+	25+	50+
<b>Tooling</b>						
Crimp Tool 0.5 - 0.8mm <sup>2</sup>	5991111615	128-2211				
Crimp Tool 0.8 - 1.5mm <sup>2</sup>	5991111616	128-2213				
Removal Tool	5810118920	128-2214				
Secondary Removal Tool	5991111628	128-2215				
SE Release Tool	5991111611	128-2216				
LE Release Tool	5991111612	128-2217				

## Modular Power Connectors

### The RADSOK® Design



RADSOK® Contact



Twisted Hyperbolic Grid

The RADSOK (RADial SOcKet) is a high amperage, low insertion force electrical terminal. RADSOK technology is based upon a stamped and formed flat grid, uniquely twisted into a hyperbolic geometry to provide robust, high density contact to the mating pin contact. The RADSOK utilizes the tensile strength properties of the flat, high conductivity grid. This provides the high normal forces required for conductivity while also providing large conductive surface area. Low voltage drop and low temperature rise are also achieved while maintaining low insertion forces.

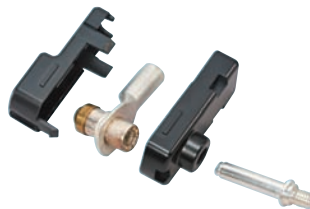
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## AMPHE-Metal SurLok™ with RADSOK Technology



- Uses RADSOK Technology
- Intergrated latching Mechanism
- Low insertion force
- Silver plated contacts
- Matte tin crimp barrel
- Two-piece dielectric housing
- Easy field installation

The Metal SurLok™ is a field installable, high reliability alternative to common compression lugs which can be crimped by industry standard U-Indent/Clamshell or 4-indenter crimp tool. The Metal SurLok™ is available in variety of common wire sizes which can be used in medical, heavy equipment, process control, rail/mass transit and Telecom/infocom markets. additional features include the RADSOK high Amperage socket contact technology which offers low insertion force while maintaining a large conductive service area.

#### SurLok Kit (Lug and two piece housing)

Order Code	Wire Size	RADSOK Size	Current Rating	SurLok Part No.
128-1472	8AWG	3.6mm	70A	C10-647183-081
128-1473	6AWG	5.7mm	100A	PSL-576K
128-1474	4AWG	5.7mm	125A	PSL-574K
128-1475	2AWG	8mm	175A	PSL-802K
128-1476	1AWG	8mm	200A	PSL-801K
128-1478	2AWG	10.3mm	300A	C10-647186-2X1

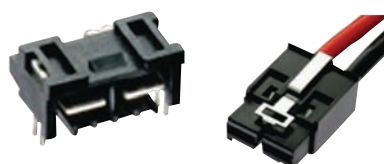
#### Pin

Order Code	Pin Dia.	Current Rating	Thread (male)	SurLok Part No.
128-1488	5.7mm	125A	M5 X 0.8	C10-647176-001
128-1489	8mm	200A	M8 X 1.25	PSLP-80
128-1490	10.3mm	300A	M10 X 1.5	PSLP-103

Current Rating	Mftr. List No.	Order Code	1+	10+	25+	50+
<b>Surlok Kit</b>						
70A	C10-647183-081	128-1472				
100A	PSL-576K	128-1473				
125A	PSL-574K	128-1474				
175A	PSL-802K	128-1475				
200A	PSL-801K	128-1476				
300A	C10-647186-2X1	128-1478				

			Price Each			
	Mftr. List No.	Order Code	1+	10+	25+	50+
<b>Pin</b>						
125A	C10-647176-001	128-1488				
200A	PSLP-80	128-1489				
300A	PSLP-103	128-1490				

### ET Power Connector



**NEW**

Designed for low-profile power distribution units requiring small form factor connector with high current, the ET power connector is a low loss, highly reliable and cost effective solution for cable-to-pcb applications. A unique feature of the ET power series is integrated coding contacts.

- Up to 30 A per contact
- Positive metal latch retention with pull force up to 100N
- No of ways: 2
- Housing colour: Black
- Housing material: Glass filled Thermoplastic
- Contact plating : Gold

			Price Each			
Coding	Mftrs. List No.	Order Code	1+	10+	100+	500+
<b>Header - Right Angle</b>						
Coding	1982295-1	187-7711				
No Coding	1982295-2	187-7712				
<b>Header - Vertical</b>						
Coding	2042274-1	187-7717				
No Coding	2042274-2	187-7718				

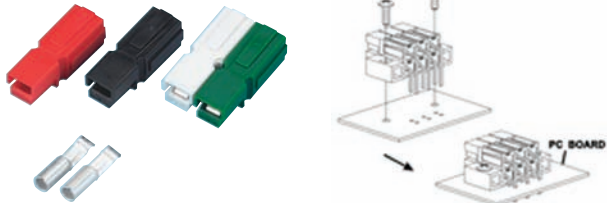
# Modular Power Connectors - continued

## ET Power Connector - continued

Coding	Mfrs. List No.	Order Code	Price Each			
			1+	10+	100+	500+
<b>Cable Type Plug</b>						
Right Coding	1982299-1	187-7713				
Left Coding	1982299-2	187-7714				
Dual Coding	1982299-3	187-7715				
No Coding	1982299-4	187-7716				

## Modular Power Connectors 15A - 30A

Housing & Contacts, Single Pole



- Housings and contacts sold separately
- Housing Flammability Rating - UL94V-0
- Operating Temp. = -20°C to +125°C
- Contact Retention Force = 25 lbs
- Av. Connect / Disconnect = 3 lbs
- Voltage Rating = 600V

Contacts:-			
Order Code	Wire Size AWG	Wire Size mm	Current Rating
136-1308	20 - 16AWG	0.75 - 1.5mm <sup>2</sup>	15A
136-1309	16 - 12AWG	1.5 - 3.3mm <sup>2</sup>	30A

475007

Order Code	Current Rating	PCB Lead Length	PCB Contact Length	Temperature Range
136-1310	25A	11mm	25mm	-20 to +125°C
136-1311	25A	18.9mm	25.8mm	-20 to +125°C
136-1312	25A	18.9mm	28.8mm	-20 to +125°C

Order Multiple=5		Price Each			
Colour	Order Code	5+	100+	250+	500+

Housing 15A - 45A	
Red	136-1303
Black	136-1304
White	136-1305
Green	136-1306
Blue	136-1307
Brown	155-4846

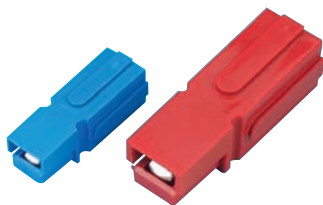
Mounting Wing	
Red	136-1313

Contacts, Crimp	
15A	136-1308
30A	136-1309

Contacts, PCB R/A, 25A	
Pin/Contact Length 11 x 25mm	136-1310
Pin/Contact Length 18.9 x 25.8mm	136-1311
Pin/Contact Length 18.9 x 28.8mm	136-1312

## Modular Power Connectors 50 - 75A

Housing & Contacts, Single Pole



- Housings and contacts sold separately
- Housing Flammability Rating - UL94V-0
- Operating Temp. = -20°C to +125°C
- Contact Retention Force = 50 lbs
- Av. Connect / Disconnect = 7 lbs
- Voltage Rating = 600V

Contacts:-			
Order Code	Wire Size AWG	Wire Size mm	Current Rating
136-1319	12 - 10AWG	4 - 6mm <sup>2</sup>	50A
136-1321	8AWG	8.3mm <sup>2</sup>	60A
136-1322	6AWG	14mm <sup>2</sup>	75A

475045

Order Multiple=1		Price Each			
Colour	Order Code	1+	50+	100+	250+
<b>Housing 50A - 75A</b>					
Red	136-1315				
Black	136-1316				
Green	136-1317				
Blue	136-1318				
<b>Contacts, Crimp</b>					
50A	136-1319				
60A	136-1321				
75A	136-1322				

## Battery Modular Connectors 120A & 175A

Housing & Contacts, Single Pole



- Housings and contacts sold separately
- Operating Temp. = -20°C to +125°C
- Contact Retention Force = 50 lbs
- Av. Connect / Disconnect = 8 lbs
- Voltage Rating = 600V

Order Code	Wire Size AWG	Wire Size mm <sup>2</sup>	Current Rating
<b>Contacts 80 - 120A Range</b>			
206-4907	6 - AWG	13.29	80A
206-4908	4 - AWG	21.14	100A
206-4909	2 - AWG	33.61	120A
<b>Contacts 80 - 175A Range</b>			
206-4913	6 - AWG	13.29	80A
206-4914	4 - AWG	21.14	125A
206-4915	2 - AWG	33.61	150A
206-4916	1 - AWG	42.39	175A

662869

Order Multiple=1		Price Each				
Description	Order Code	1+	10+	50+	100+	250+

Housing 80 - 120A	
Red	206-4905
Black	206-4906

Contacts, Crimp 80 - 120A	
80A	206-4907
100A	206-4908
120A	206-4909

Housing 80 - 175A	
Red	206-4910
Black	206-4912

Contacts, Crimp 80 - 175A	
80A	206-4913
125A	206-4914
150A	206-4915
175A	206-4916

## Modular Power Connectors 50A - 75A

Housing & Contacts, Double Pole



- Housings and contacts sold separately
- Housing Flammability Rating - UL94V-0
- Operating Temp. = -20°C to +125°C
- Contact Retention Force = 50 lbs
- Av. Connect / Disconnect = 15 lbs
- Voltage Rating = 600V

Contacts:-			
Order Code	Wire Size AWG	Wire Size mm	Current Rating
136-1319	12 - 10AWG	4 - 6mm <sup>2</sup>	50A
136-1321	8AWG	8.3mm <sup>2</sup>	60A
136-1322	6AWG	14mm <sup>2</sup>	75A

475047

Order Multiple=1		Price Each			
Colour	Order Code	1+	50+	100+	250+

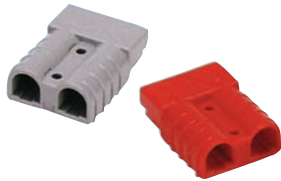
Housing 50-75A	
Red	136-1323
Black	136-1324
Grey	136-1325

Contacts, Crimp	
50A	136-1319
60A	136-1321
75A	136-1322

Accessories		1+	10+	50+	100+
Cable Clamp	206-4920				
Connector Handle	206-4922				
Dust Cover	206-4925				

## Battery Modular Connectors 80A & 120A

Housing & Contacts, Double Pole



- Housings and contacts sold separately
- Operating Temp. = -20°C to +125°C
- Contact Retention Force = 50 lbs

- Av. Connect / Disconnect = 8 lbs
- Voltage Rating = 600V

Order Code	Wire Size AWG	Wire Size mm <sup>2</sup>	Current Rating
206-4907	6 - AWG	14	80A
206-4908	4 - AWG	22	100A
206-4909	2 - AWG	38	120A

662910

Order Multiple=1		Price Each				
Description	Order Code	1+	10+	50+	100+	250+
<b>Housing 80 - 120A</b>						
Red	206-4917					
Grey	206-4918					
Blue	206-4919					
<b>Contacts, Crimp 80 - 120A</b>						
80A	206-4907					
100A	206-4908					
120A	206-4909					
<b>Accessories</b>						
Cable Clamp	206-4921					
Connector Handle	206-4924					
Dust Cover	206-4926					

## Waterproof Battery Modular Connectors 80 - 120A



- Housings and contacts sold separately
- Kit Contains: 2 Pole Housing, seal plug, cable clamp with screws
- Housing Material: PC

- Operating Temp. = -20°C to +125°C
- Spring material, Stainless Steel
- Housing material, polycarbonate
- Voltage Rating = 600V

Order Code	Wire Size AWG	Wire Size mm <sup>2</sup>	Current Rating
206-4907	6 - AWG	14	80A
206-4908	4 - AWG	22	100A
206-4909	2 - AWG	38	120A

662944

Order Multiple=1		Price Each				
Description	Order Code	1+	10+	50+	100+	250+
<b>Female Housing, Blue</b>						
80A	206-4944					
100A	206-4945					
120A	206-4946					
<b>Male Housing, Blue</b>						
80A	206-4948					
100A	206-4949					
120A	206-4950					
<b>Contacts, Crimp 80 - 120A</b>						
80A	206-4907					
100A	206-4908					
120A	206-4909					

## Waterproof Battery Modular Connectors 250A - 300A

Housing & Contacts, Twin Pole



- Housings and contacts sold separately
- Kit contains: 2 Pole housing, seal plug, cable clamp with screws
- Housing material: PC
- Operating Temp. = -20°C to +125°C
- Spring material, Stainless Steel
- Voltage Rating = 600V

Order Code	Wire Size AWG	Wire Size mm <sup>2</sup>	Current Rating
206-4941	2/0 AWG	70	256A
206-4942	3/0 AWG	80	310A
206-4943	4/0 AWG	100	360A

662937

Order Multiple=1		Price Each				
Description	Order Code	1+	10+	25+	50+	100+
<b>Housing Female, Black</b>						
250A	206-4927					
270A	206-4928					
300A	206-4929					
<b>Housing Male, Black</b>						
250A	206-4931					
270A	206-4932					
300A	206-4933					
<b>Housing Female, Red</b>						
250A	206-4934					
270A	206-4936					
300A	206-4937					
<b>Housing Male, Red</b>						
250A	206-4938					
270A	206-4939					
300A	206-4940					
<b>Contacts, Crimp</b>						
256A	206-4941					
310A	206-4942					
360A	206-4943					

## High Power Drawer Connectors

ELCON Drawer Series



- Max. current rating per contact: 35A
- Housing material: Polyester
- Contact material: High conductivity copper alloy
- Contact plating: Gold

**NEW**

The benefits of the power drawer connector includes the robustness of the housing designs and the durability of these contacts as well as the low voltage drop over the connector. Typical applications include low noise and switch mode power supplies.

637045

No. of Ways	Mfrs. List No.	Order Code	1+	10+	100+	250+
<b>Plug</b>						
8	1648127-1	187-7702				
32	1648211-1	187-7706				
40	1648132-1	187-7704				
<b>Receptacle</b>						
8	1648128-1	187-7703				
32	1648212-1	187-7708				
40	1648133-1	187-7705				
<b>Crimp Contacts</b>						
Socket	1648325-1	187-7709				
Pin	1650153-2	187-7710				

## Heavy Duty Connectors - Tyco

Motorman Hybrid Connectors

**NEW**



Features:

- Compact size
- Easy-to-open enclosure
- Offers space for two 4-pin Ethernet sockets, five power sockets, five signal sockets and one protection earth contact
- Cat 5e communication in heavy environment
- Usage of TE Connectivity's MCON interconnection system and its stamped contacts



## TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at [farnell.com](http://farnell.com)

# Heavy Duty Connectors - Tyco - continued

## Motorman Hybrid Connectors - continued

Decentral servo motors are widely used in many industries and are typically connected via a deterministic system and power-fed by a separate cable. The Motorman hybrid connector from TE integrates communication, signal and power transmission of locally controlled motors within a single compact rectangular connector. In addition, two fast Ethernet sockets enable motors to be networked, providing the benefit of real-time automation. The innovative design and compact size of the Motorman hybrid connector allows for significant space savings in comparison with traditional rectangular industrial connectors. It also helps to keep costs to a minimum by reducing the amount of overall cabling needed as well as shortening cable length.

662891

	Mftrs.	Price Each
	List No.      Order Code      1+      10+      25+	
<b>Receptacle Housing</b>		
Metal	2120320-1	<b>210-1575</b>
Plastic	1-2120319-1	<b>210-1576</b>
<b>Accessories</b>		
5 Way Signal Housing	2120321-1	<b>210-1577</b>
Receptacle Contact - MCON 2.5 - 4mm2	1718475-3	<b>210-1578</b>
Receptacle Contact - MCON 0.25 - 0.4mm2	1452653-2	<b>210-1581</b>
Receptacle Contact - MCON 0.5 - 0.75mm2	1452656-2	<b>210-1582</b>
4 Way Communications Socket	1103427-2	<b>210-1583</b>
HDP-22 Contact for Communications Sockets	1658686-1	<b>177-2777</b> ●
Tab Connector	2120325-1	<b>210-1584</b>
Kit (Hood, Cover, Screen) - Metal	2120330-1	<b>210-1585</b>
Kit (Hood, Cover, Screen) - Plastic	2120340-1	<b>210-1587</b>
Metal Side Clip	2120339-1	<b>210-1586</b>
Plastic Side Clip	1245276-2	<b>210-1588</b>
Protection Cover	1108847-1	<b>210-1589</b>
Protection Cover Sealing	2120336-1	<b>210-1590</b>
Cable Seal	2120337-1	<b>210-1591</b>

## HTS Heavy-Duty Connectors



### Connector Components

HTS are rugged, heavy-duty connectors offering to 10 to 35 amp current carrying capacity and up to IP 68 sealing.

The connectors are commonly used in industrial machinery, control equipment, the automotive industry, railway rolling stock, audio and telecom engineering.

HTS Connectors are at home in environments where resistance to vibration, corrosion, humidity or physical damage is required, but are equally at home inside equipment cases.

Housings, inserts and contacts are sold separately to allow connectors to be matched to specific requirements.

### HTS Series

The range comprises five product series, the main features of which are summarised below.

#### HA Series

Standard density, 250V, 10 to 16A, 3, 4, 10, 16, 32 way, screw terminals, housings **IP44-65**

#### HE Series

Standard density, 380V, 16A, 6, 10, 16, 24, 32 way, crimp or screw terminals, housings **IP65-68**

#### HD Series

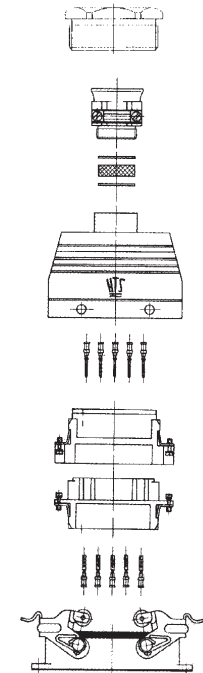
Double density, 250V, 10A, 7, 15, 25 way, crimp terminals, housings **IP65-68**

#### HN.2D

High density, 250V, 10A, 24, 42, 72, 108 way, crimp terminals, housings **IP65-68**

#### HSB Series

High power, 380V, 35A, 6, 12 way, screw terminals, housings, **IP65-68**



### Technical Summary

	HA	HE	HD	HN.2D	HSB
Amp Rating	3/4 way 10A 10+ way 16A	16A max. 20A max. (UL)	10A max.	10A max. 12 max. (UL)	35A max.
Rated Voltage	250V Ins Group C 600V UL, CSA	380V Ins Group C 600V UL, CSA	250V Ins Group C 600V UL, CSA	250V Ins Group C 600V UL, CS	380V Ins Group C 600V UL, CSA
Insulation Group	3/4 way C 10+ way B	C	C	C	C
Termination	Screw	Screw, crimp	Crimp	Crimp	Screw
Approvals	<b>UL, CSA, SEV, VDE</b>				
Regulations	<b>DIN VDE 0110, DIN VDE 0627</b>				
Temp. Rating	-40°C to +125°C				

	HA	HE	HD	HN.2D	HSB
Cable Range	0.5-2.5mm	Screw 0.5-2.5mm Crimp 0.5-4.0mm	0.14-2.5mm	0.5-4.0mm	6mm
<b>Materials</b>					
Insert	Thermoplastic <b>UL V-0</b>				
Contacts	Copper alloy				
Plating	Hard silver plated				

For ease of product selection, the HTS range has been divided according to size. All inserts, housings and hoods within each size are compatible

### Contact Arrangements

The following size, series, contact arrangements are available

227532

Size	HTS Series				
	HA	HE	HD	HN.2D	HSB
	No. of Ways	No. of Ways	No. of Ways	No. of Ways	No. of Ways
1	3, 4		7		
2	10		15		
3		6		24	
4		10		42	
5	16		25		
6		16		72	6
7	32				
8		24		108	
10		32			12

### Size 1 Inserts



Minimum 40mm x 28mm space required for Bottom Entry Housing.

\* Limited nominal Voltage (250V) when used in conjunction with metal housing (HA.3)

Mftrs. List No.	Order Code	1+	10+	25+
1-1103400-1	131-647			
1-1103401-1	131-696			
1-1103402-1	152-780			
1-1103403-1	152-791			
1102194-1	135-5218			
2-1103100-3	135-5219			
2-1103101-3	135-5220			
2-1103102-3	135-5221			
2-1103103-3	135-5222			
2-1103104-3	135-5224			
2-1103105-3	135-5225			

	Order Code	1+	10+	25+
3 way + E male HA insert, screw terminal	<b>131-647</b> ●			
3 way + E female HA insert, screw terminal	<b>131-696</b> ●			
4 way + E male HA insert, screw terminal	<b>152-780</b> ●			
4 way + E female HA insert, screw terminal	<b>152-791</b> ●			
5 way + E male HE insert, screw terminal	<b>135-5217</b> ●			
5 way + E female HE insert, screw terminal	<b>135-5218</b> ●			
7 way + E male HN insert, crimp contacts	<b>135-5219</b> ●			
7 way + E female HN insert, crimp contacts	<b>135-5220</b> ●			
7 way + E male HN insert, screw terminal*	<b>135-5221</b> ●			
7 way + E female HN insert, screw terminal*	<b>135-5222</b> ●			
7 way + E insert male HD, crimp contacts	<b>133-115</b> ●			
7 way + E insert female HD, crimp contacts	<b>133-127</b> ●			
8 way + E insert male HN, screw contacts	<b>135-5224</b> ●			
8 way + E insert female HN, screw contacts	<b>135-5225</b> ●			

### Hoods



Mftrs. List No.	Order Code	1+	10+	25+
1-1102416-7	131-740			
1-1102101-7	131-763			
1-1102103-7	131-775			
1-1102424-2	131-866			
1-1102112-2	131-878			
1106405-1	135-5226			
1106406-1	135-5228			
1106403-3	135-5229			
1106405-3	135-5227			

	Order Code	1+	10+	25+
Hood, plastic, top entry	PG11 <b>131-740</b> ●			
Hood, metal, top entry with adaptor	PG11 <b>131-763</b> ●			
Hood, metal, side entry with adaptor	PG11 <b>131-775</b> ●			
Hood, plastic, cable to cable	PG11 <b>131-866</b> ●			
Hood, metal, cable to cable	PG11 <b>131-878</b> ●			
Hood, metal, top entry	M16 <b>135-5226</b> ●			
Hood, metal, side entry	M16 <b>135-5228</b> ●			
Hood, metal, side entry	M20 <b>135-5229</b> ●			
Hood, metal, top entry	M20 <b>135-5227</b> ●			



## Housings



Mfrs. List No.	1-1102420-2=131-910, 1-1102419-2=131-921,	1-1102107-2=131-933, 1-1102105-2=131-945,	1-1102109-2=131-994
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	Gland		Price Each		
	Thread	Order Code	1+	10+	25+
Housing, plastic, right angle, bottom entry	N/A	131-910			
Housing, plastic, vertical, bottom entry	N/A	131-921			
Housing, metal, right angle, bottom entry	N/A	131-933			
Housing, metal, vertical, bottom entry	N/A	131-945			
Housing, metal, side entry with adaptor	PG11	131-994			

## Accessories

	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
Metal dust cover	2-1106205-7	132-032			
Cable gland kit (PG11 thread)	1-1106004-9	355-1532			

## Size 2

### Inserts



Minimum 81mm x 30mm space required for Bottom Entry Housing

	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
10 way male HA insert, screw terminal	1-1103414-1=131-660, 1-1103415-1=131-714, 2-1103004-3=133-152, 2-1103005-3=133-164	7-1103414-1=135-5241 7-1103415-1=135-5242 2-1103106-3=135-5243 2-1103107-3=135-5244			
10 way female HA insert, screw terminal		131-660			
10 way male HA insert, spring clamp		131-714			
15 way male HD insert, crimp contacts		135-5241			
15 way female HD insert, crimp contacts		133-152			
15 way male HN insert, crimp contacts		133-164			
15 way female HN insert, crimp contacts		135-5243			
		135-5244			

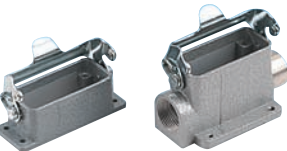
## Hoods



Mfrs. List No.	1-1102119-7=131-787, 1-1102116-7=131-799, 1-1102426-7=131-842, 1-1102132-2=131-880 1106411-2=135-5245 1106411-1=135-5248
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	Gland		Price Each		
	Thread	Order Code	1+	10+	25+
Hood, top entry	PG16	131-787			
Hood, side entry	PG16	131-799			
Hood, side entry	M20	135-5245			
Hood, top entry	M20	135-5248			

## Housings



Mfrs. List No.	1-1102121-2=131-957, 1-1102124-2=132-007 1106410-2=135-5250
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	Gland		Price Each		
	Thread	Order Code	1+	10+	25+
Housing, bottom entry, surface mount 81mm x 30mm	N/A	131-957			
Housing, side entry, surface mount 72.5mm x 50mm	PG16	132-007			
Housing, side entry	M20	135-5250			

## Accessories

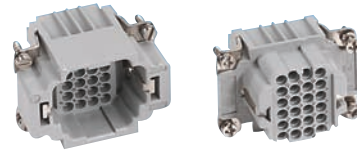
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## Price Each

	Mfrs. List No.	Order Code	1+	10+	25+
Dust cover	2-1106206-7	132-044			
Cable gland kit (PG16 thread)	3-1106004-9	355-1544			

## Size 3

### Inserts

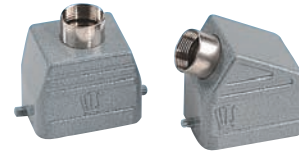


Minimum 80mm x 43.5mm space required for Bottom Entry Housing.

Mfrs. List No.	1-1103634-1=133-371, 1-1103635-1=133-383,	2-1103200-3=132-070, 2-1103202-3=132-081	7-1103634-1=135-5252 7-1103635-1=135-5253
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	Gland		Price Each		
	Thread	Order Code	1+	10+	25+
6 way male HE insert, screw terminal		133-371			
6 way female HE insert, screw terminal		133-383			
24 way male HN2D insert, crimp contacts		132-070			
24 way female HN2D insert, crimp contacts		132-081			

## Hoods



Mfrs. List No.	1-1102466-7=132-111, 1-1102242-7=132-093, 1-1102239-7=132-100, 1-1102460-7=132-123,	1106419-7=135-5254 1106419-2=135-5255 1102769-1=135-5256 1106417-1=135-5257	1106416-4=135-5258 1106416-3=135-5261 1106419-1=135-5262
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	Gland		Price Each		
	Thread	Order Code	1+	10+	25+
Hood, top entry, high profile (extra wiring space)	PG21	132-111			
Hood, top entry	PG16	132-093			
Hood, side entry	PG16	132-100			
Hood, side entry, high profile (extra wiring space)	PG21	132-123			
Hood, side entry	M25	135-5255			

## Housings

Mfrs. List No.	1-1102244-2=132-147, 1-1102249-2=132-159	1106418-2=135-5263 4-1102712-5=135-5264
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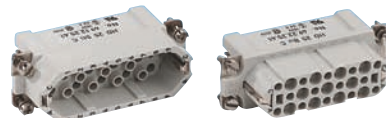
	Gland		Price Each		
	Thread	Order Code	1+	10+	25+
Housing, bottom entry, surface mount 80mm x 43mm	N/A	132-147			
Housing, bottom entry	N/A	135-5264			
Housing, side entry, surface mount 83mm x 52mm	PG16	132-159			
Housing, side entry	M25	135-5263			

## Accessories

	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
Dust cover panel	1-1106207-7	132-160			
Cable gland kit (PG16 thread)	3-1106004-9	355-1544			
Cable gland kit (PG21 thread)	4-1106004-9	355-1556			
Cover	4-1106201-5	135-5265			

## Size 5

### Inserts



Minimum 96mm x 29mm space required for Bottom Entry Housing

Mfrs. List No.	1-1103416-1=131-672, 1-1103417-1=131-726,	2-1103010-3=133-176, 2-1103011-3=133-188	7-1103416-1=135-5280 7-1103417-1=135-5281
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	Gland		Price Each		
	Thread	Order Code	1+	10+	25+
16 way male HA insert, screw terminal		131-672			
16 way female HA insert, screw terminal		131-726			
25 way male HD insert, requires HD crimp contacts		133-176			
25 way female HD insert, requires HD crimp contacts		133-188			
16 way male HA insert, spring clamp		135-5280			
16 way female HA insert, spring clamp		135-5281			

## Size 5 - continued

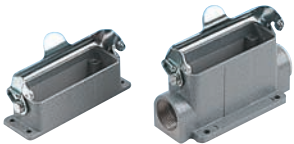
### Hoods



Mfrs. List No.	1-1102138-7=131-805, 1-1102135-7=131-817,	1-1102529-7=131-854,	1-1102151-2=131-891
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	Gland Thread	Order Code	Price Each		
			1+	10+	25+
Hood, top entry	PG16	<b>131-805</b> ●			
Hood, side entry	PG16	<b>131-817</b> ●			
Hood, side entry, high profile (extra wiring space)	PG16	<b>131-854</b> ●			
Hood, cable to cable	PG16	<b>131-891</b> ●			
Hood, top entry	M20	<b>135-5285</b> ●			
Hood, side	M25	<b>135-5283</b> ●			
Hood, top	M25	<b>135-5286</b> ●			

### Housings



Mfrs. List No.	1-1102140-2=131-969, 1-1102143-2=132-019	1106438-2=135-5288 1106441-2=135-5289
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	Gland Thread	Order Code	Price Each		
			1+	10+	25+
Housing, bottom entry, surface mount 96mm x 29mm	N/A	<b>131-969</b> ●			
Housing, side entry, surface mount 102mm x 50mm	PG16	<b>132-019</b> ●			

### Accessories

	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
Cable gland kit (PG16 thread)	3-1106004-9	<b>355-1544</b> ●			

## Size 6

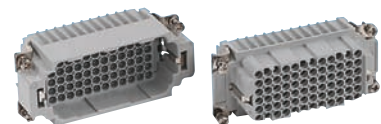
### Inserts



Minimum 113mm x 57mm space required for Bottom Entry Housing.

Mfrs. List No.	1-1104204-1=133-267, 1-1104205-1=133-279, 1-1103638-1=133-450, 1-1103639-1=133-462,	7-1103638-1=135-5290, 7-1103639-1=135-5291, 2-1103110-3=135-5292, 2-1103111-3=135-5293,	1108761-1=135-5294, 1108762-1=135-5295, 1102075-1=135-5297, 1102076-1=135-5298,
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	Order Code	Price Each		
		1+	10+	25+
6 way male HSB insert, screw terminal	<b>133-267</b> ●			
6 way female HSB insert, screw terminal	<b>133-279</b> ●			
16 way male HE insert, screw terminal	<b>133-450</b> ●			
16 way female HE insert, screw terminal	<b>133-462</b> ●			
40 way male H.N.D insert, crimp contacts	<b>135-5292</b> ●			
40 way female H.N.D insert, crimp contacts	<b>135-5293</b> ●			



Mfrs. List No.	2-1103208-3=131-659, 2-1103212-3=131-702 1106449-4=135-5299	1106452-4=135-5300 1106449-1=135-5301 1106452-1=135-5303	1106450-2=135-5304 1106446-4=135-5305 1106446-3=135-5306
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	Order Code	Price Each		
		1+	10+	25+
72 way male HN2D insert, requires HN2D crimp contacts	<b>131-659</b> ●			
72 way female HD insert, requires HN2D crimp contacts	<b>131-702</b> ●			

### Hoods



Mfrs. List No.	1-1102572-6=132-317 1-1102294-6=132-299 1-1102290-6=132-305 1-1102566-6=132-329	1106449-4=135-5299 1106452-4=135-5300 1106449-1=135-5301 1106452-1=135-5303	1106450-2=135-5304 1106446-4=135-5305 1106446-3=135-5306
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	Gland Thread	Order Code	Price Each		
			1+	10+	25+
Hood, top entry, high profile (extra wiring space)	PG29	<b>132-317</b> ●			
Hood, top entry	PG21	<b>132-299</b> ●			
Hood, side entry	PG21	<b>132-305</b> ●			
Hood, side entry, high profile (extra wiring space)	PG29	<b>132-329</b> ●			
Hood, side entry	M32	<b>135-5299</b> ●			
Hood, top entry	M32	<b>135-5301</b> ●			

### Housings

Mfrs. List No.	1-1102296-1=132-342, 1-1102299-1=132-354, 1-1102296-8=355-6591 1106448-4=135-5307	1106451-4=135-5308 4-1102730-5=135-5309 1106445-2=135-5310
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	Gland Thread	Order Code	Price Each		
			1+	10+	25+
Housing, bottom entry, surface mount 113mm x 57mm	N/A	<b>132-342</b> ●			
Housing, side entry, surface mount 117mm x 57mm	PG21	<b>132-354</b> ●			

### Accessories

Mfrs. List No.	4-1106004-9 5-1106004-9	<b>355-1556</b> ● <b>355-1568</b> ●			
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## Size 7

### Inserts



Minimum 96mm x 29mm space required for Bottom Entry Housing.

Mfrs. List No.	1-1103416-1=131-672, 1-1103417-1=131-726,	1-1103416-7=131-684, 1-1103417-7=131-738
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Note: 32 way male insert comprises 131-672 and 131-684  
32 way female insert comprises 131-726 and 131-738

	Order Code	Price Each		
		1+	10+	25+
32 way male HA insert, screw terminal, marked 1-16	<b>131-672</b> ●			
32 way female HA insert, screw terminal marked 1-16	<b>131-726</b> ●			
32 way male HA insert, screw terminal marked 16-32	<b>131-684</b> ●			
32 way female HA insert screw terminal, marked 16-32	<b>131-738</b> ●			

### Hoods



	Gland Thread	Mfrs. List No.	Order Code	Price Each		
				1+	10+	25+
Hood, top entry	PG21	1-1102157-6	<b>131-829</b> ●			
Hood, side entry	PG21	1-1102154-6	<b>131-830</b> ●			

## Housings



Mfrs. List No.	1-1102160-1=131-970,	1-1102162-1=132-020	Price Each		
	Gland Thread	Order Code	1+	10+	25+
Housing, bottom entry, surface mount 102mm x 56mm	N/A	<b>131-970</b>			
Housing, side entry, surface mount 106mm x 56mm	PG21	<b>132-020</b>			

## Accessories

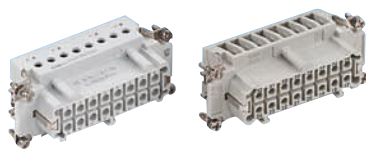
	Mfrs. List No.	Order Code	1+	10+	25+
Cable gland kit (PG21thread)	4-1106004-9	<b>355-1556</b>			

## Size 10



Minimum 102mm x 69mm space required for Bottom Entry Housing.

## Inserts



Mfrs. List No.	1-1103638-1=133-450, 1-1103639-1=133-462,	1-1103638-9=133-530,	1-1103639-9=133-541,	Price Each		
	Order Code	1+	10+	25+		
32 way male HE screw terminal insert, marked 1-16	<b>133-450</b>					
32 way female HE screw terminal insert, marked 1-16	<b>133-462</b>					
32 way male HE screw terminal insert, marked 17-32	<b>133-530</b>					
32 way female HE screw terminal insert, marked 17-32	<b>133-541</b>					

Note: 32 way male connector requires inserts marked 1-16 and 17-32  
32 way female connector requires inserts marked 1-16 and 17-32

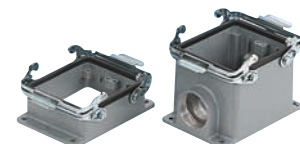
Mfrs. List No.	1-1104204-1=133-267, 1-1104205-1=133-279,	1-1104206-1=133-292,	1-1104207-1=133-309	Price Each		
	Order Code	1+	10+	25+		
12 way HSB male, screw terminal, marked 1-6	<b>133-267</b>					
12 way HSB female, screw terminal, marked 1-6	<b>133-279</b>					
12 way HSB female, screw terminal, marked 7-12	<b>133-309</b>					

## Hoods



	Gland Thread	Mfrs. List No.	Order Code	1+	10+	25+
Hood, top entry	PG29	1-1102350-6	<b>132-846</b>			
Hood, side entry	PG29	1-1102347-6	<b>132-858</b>			

## Housings



Mfrs. List No.	1-1102352-1=132-871,
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	Gland Thread	Order Code	1+	10+	25+
Housing, bottom entry, surface mount 102mm x 69mm	N/A	<b>132-871</b>			

## Accessories

	Mfrs. List No.	Order Code	1+	10+	25+
Cable gland kit (PG29 thread)	5-1106004-9	<b>355-1568</b>			

## HTS Contacts and Tooling



### HE Crimp Contacts

1	(mm <sup>2</sup> )		Mfrs. List No.	Order Code	1+	10+	25+
Pin	0.75-1	Silver	2-1105100-1	<b>133-000</b>			
Pin	1.5	Silver	3-1105100-1	<b>133-012</b>			
Socket	1.5	Silver	3-1105101-1	<b>133-061</b>			

### HE Tooling

	Mfrs. List No.	Order Code	Price Each
HTS Crimp Tool	1-1105850-8	<b>355-7110</b>	
HE Locator and Die	1-1105852-8	<b>355-7121</b>	
HE Insertion Tool	1102855-6	<b>393-1560</b>	

## HN2D Crimp Contacts



Order Multiple=5	Wire Size (mm)		Mfrs. List No.	Order Code	5+	100+	250+
Pin	0.14-0.37	Silver	1-1105050-1	<b>132-494</b>			
Pin	0.5	Silver	2-1105050-1	<b>132-500</b>			
Pin	0.75-1	Silver	3-1105050-1	<b>132-512</b>			
Pin	1.5	Silver	4-1105050-1	<b>132-524</b>			
Pin	2.5	Silver	5-1105050-1	<b>132-536</b>			
Socket	0.14-0.37	Silver	1-1105051-1	<b>132-548</b>			
Socket	0.5	Silver	2-1105051-1	<b>132-550</b>			
Socket	0.75-1	Silver	3-1105051-1	<b>132-561</b>			
Socket	1.5	Silver	4-1105051-1	<b>132-573</b>			
Socket	2.5	Silver	5-1105051-1	<b>132-585</b>			
Pin	0.14-0.37	Gold	1-1105050-2	<b>132-597</b>			
Pin	1.5	Gold	4-1105050-2	<b>132-627</b>			
Pin	2.5	Gold	5-1105050-2	<b>132-639</b>			
Socket	0.14-0.37	Gold	1-1105051-2	<b>132-640</b>			
Socket	0.5	Gold	2-1105051-2	<b>132-652</b>			
Socket	0.75-1	Gold	3-1105051-2	<b>132-664</b>			

### HN2D Tooling

	Mfrs. List No.	Order Code	Price Each
HTS Crimp Tool	1-1105850-8	<b>355-7110</b>	
HN2D Locator and Die	1-1105852-8	<b>355-7121</b>	
HN2D Insertion Tool	1102855-6	<b>393-1560</b>	
HN2D Extraction Tool	1102855-2	<b>393-1572</b>	

Mfrs. List No.	Order Code	Price Each
1-1105850-8	<b>355-7110</b>	
0-0539668-2	<b>355-7133</b>	
1102855-6	<b>393-1560</b>	
1102855-1	<b>393-1584</b>	

## HD Crimp Contacts



Order Multiple=10	Wire Size (mm <sup>2</sup> )		Mfrs. List No.	Order Code	10+	500+	1K+
Pin	0.3-0.56	TIn	164163-1	<b>133-190</b>			
Socket	0.3-0.56	TIn	163088-1	<b>133-206</b>			
Socket	0.5-1.5	TIn	2-1105001-3	<b>133-220</b>			

### HD Tooling

	Mfrs. List No.	Order Code	Price Each
HTS Crimp Tool	1-1105850-8	<b>355-7110</b>	
HD Locator and Die	0-0539668-2	<b>355-7133</b>	
HD Insertion Tool	1102855-6	<b>393-1560</b>	
HD Extraction Tool	1102855-1	<b>393-1584</b>	

## Heavy Duty Connectors - Tyco - continued

### Plastic Cable Fitting

HTS



- Plastic
- Corrosion protected
- Cable diameter range = 5mm to 28mm

Thread	Cable Ø	Mftrs.	Order Code	1+	10+	25+	+
M16	5 - 10	1-1102771-6	135-5335 ●				
M20	8 - 13	2-1102771-0	135-5336 ●				
M25	11 - 17	2-1102771-5	135-5337 ●				
M32	15 - 21	3-1102771-2	135-5339 ●				
M40	19 - 28	4-1102771-0	135-5341 ●				

483979

### Metal Cable Fitting

HTS



- Metal
- Corrosion protected

Thread	Cable Ø	Mftrs.	Order Code	1+	10+	25+	+
M16	5 - 10	1-1102771-6	135-5335 ●				
M20	8 - 13	2-1102771-0	135-5336 ●				
M25	11 - 17	2-1102771-5	135-5337 ●				
M32	15 - 21	3-1102771-2	135-5339 ●				
M40	19 - 28	4-1102771-0	135-5341 ●				

483982

### Crimp Contacts

HVS



- Contacts to be used with HVS series inserts
- Silver plated copper alloy contacts

Contact resistance 3mΩ  
Contact Material Copper Alloy  
Contact Plating Hard Silver

Wire Size mm <sup>2</sup>	Mftrs.	Order Code	1+	10+	25+
<b>Pin</b>					
1.5	1-1108757-1	135-5348 ●			
4	3-1108757-1	135-5353 ●			
<b>Socket</b>					
1.5	1-1108756-1	135-5347 ●			

483994

## Heavy Duty Connectors - Harting

### HAN3, HAN4 Plastic Hood and Base Connector Kits



Pushing Performance



Side Entry Hood with Male Insert

Top Entry Hood with Male Insert



Straight Bulkhead Base with Female Insert

R/A Bulkhead Base with Female Insert

In-Line Hood with Female Insert

- 3 and 4 way HAN A type connector half kits
- Screw cable termination
- Plastic housings
- Kits include connector housing and contact insert

Note: Cable gland is not included in kit.

Current rating	10A	Contact resistance	1mΩ
Voltage rating	600V AC	Temperature range	-40°C to 125°C
Termination	Screw		

For suitable cable glands see Cable Accessories section

410591

Gland Thread	Order Code	1+	10+	25+
<b>Hood with Male Insert</b>				
3 way top entry	M20 963-7060 ●			
4 way side entry	M20 963-7095 ●			
4 way top entry	M20 963-7087 ●			
<b>Straight Bulkhead Base with Female Insert</b>				
3 Way	N/A 963-7109 ●			
4 way	N/A 963-7125 ●			
<b>In-Line Hood with Female Insert</b>				
4 way plastic	M20 963-7150 ●			

### HAN 3A, HAN4A Metal Hood and Base Connector Kits



Pushing Performance



Side Entry Hood with Male Insert



Top Entry Hood with Male Insert



R/A Bulkhead Base with Female Insert



Straight Bulkhead Base with Female Insert



In-Line Hood with Female Insert

- Kits include connector housing and contact insert
- 3 and 4 way HAN A type connector half kits
- Screw cable termination
- Metal housings

Note: Cable gland is not included in kit.

Current rating	10A	Contact resistance	1mΩ
Voltage rating	600V AC	Temperature range	-40°C to 125°C
Termination	Screw		

For suitable cable glands see Cable Accessories section

410621

Gland Thread	Order Code	1+	10+	25+
<b>Hood with Male Insert</b>				
3 way side entry	M20 963-7176 ●			
3 way top entry	M20 963-7168 ●			
4 way side entry	M20 963-7192 ●			
4 way top entry	M20 963-7184 ●			
<b>Straight Bulkhead Base with Female Insert</b>				
3 way metal	N/A 963-7206 ●			
4 way metal	N/A 963-7222 ●			
<b>R/A Bulkhead Base with Female Insert</b>				
3 way straight	N/A 963-7214 ●			
4 way straight	N/A 963-7230 ●			
<b>In-Line Hood with Female Insert</b>				
3 way - PG11	M20 963-7249 ●			
4 way - PG11	M20 963-7257 ●			

### HAN 10A, HAN 16A Metal Hood and Base Connector Kits



Pushing Performance



Side Entry Hood with Male Insert



Bulkhead Housing with Female Insert

- Metal housings
- Kits include connector housing and contact insert
- 10 and 16 way HAN A type connector half kits
- Screw cable termination

Note: Cable gland is not included in kit.

Current rating	16A	Termination	Screw	Temperature range	-40°C to 125°C
Voltage rating	600V AC	Contact resistance	1mΩ		
For suitable cable glands see Cable Accessories section					

	Gland Thread	Order Code	Price Each		
			1+	10+	25+
<b>Hood with Male Insert</b>					
10 way side entry	M25	963-7273			
16 way side entry	M25	963-7303			
<b>Bulkhead Housing with Female Insert</b>					
10 way	N/A	963-7281			
16 way	N/A	963-7311			

### HAN6E, HAN10E, HAN16E, HAN24E Metal Hood and Base Connector Kits



Side Entry Hood with Male Insert



Top Entry Hood with Male Insert



Bulkhead Housing with Female Insert

- 6, 10, 16 and 24 way HAN E type connector half kits
- Screw cable termination
- Metal housings
- Kits include connector housing and contact insert

Note: Cable gland is not included in kit.

Current rating	16A	Contact resistance	1mΩ
Voltage rating	600V AC	Temperature range	-40°C to 125°C
Termination	Screw		

Size	Gland Thread	No. of Ways	Order Code	Price Each		
				1+	10+	20+

<b>Side Entry Hood with Male Insert</b>						
6E	20	6+PE	963-7362			
10E	25	10+PE	963-7389			
16E	25	16+PE	963-7400			
24E	32	24+PE	963-7427			

<b>Top Entry Hood with Male Insert</b>						
6E	20	6+PE	963-7370			
10E	25	10+PE	963-7397			
16E	25	16+PE	963-7419			
24E	32	24+PE	963-7435			

<b>Bulkhead Housing with Female Insert</b>						
6E	N/A	6+PE	963-7320			
10E	N/A	10+PE	963-7338			
16E	N/A	16+PE	963-7346			
24E	N/A	24+PE	963-7354			

<b>Surface Mount Housing with Female Insert</b>						
6E	20	6+PE	963-7486			
10E	25	10+PE	963-7494			
16E	25	16+PE	963-7508			
24E	32	24+PE	963-7516			

<b>In-Line Hood with Female Insert</b>						
6E	20	6+PE	963-7443			
10E	20	10+PE	963-7451			
24E	32	24+PE	963-7478			

### Insert HAN 3A, HAN 4A

Size 3A



Standards	DIN VDE 0627, DIN VDE 0110	Nominal voltage	HAN 3A 230V HAN 4A 230V 3(C)
Approvals	CSA & SEV. UL Recognised	Environmental protection	>10 <sup>10</sup> Ω
Current rating	HAN 3A 10A HAN 4A 10A	Material insulator	Polycarbonate
No. of ways	HAN 3A 3 + earth HAN 4A 4 + earth	Mating cycles	≥500
		Flammability	UL94V-0
		Temperature range	-40°C to +125°C

230445

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	5+	10+
3	0920 003 2611	314-705			
4	0920 004 2611	462-536			
<b>Female Insert</b>					
3	0920 003 2711	314-717			
4	09 20 004 2711	462-548			

### Han-INOX Hoods and Housing



- Stainless steel locking elements
- Hood material: Stainless steel
- Resistant against aggressive detergents
- Operating temperature: -40°C to +125°C
- IP rating in locking position: IP65

638047

Description	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
<b>Hoods</b>					
Top Entry, M20	19 44 003 1440	185-7306			
Top Entry, M20, Seal	19 44 003 1443	185-7308			
Side Entry, M32	19 44 310 0547	185-7310			
Top Entry, M32	19 44 310 0447	185-7311			
<b>Bulkhead Housing</b>					
HAN3A	19 44 003 0301	185-7309			
HAN10B	19 44 310 0305	185-7312			
<b>Gasket</b>					
For HAN10B Bulkhead Housing	19 44 000 9902	185-7314			

### Han 'Q' Drive Connector 5 Way, 16A



- New Han-Drive connector series
- Han Q5/0, designed for standard three phase - motors
- Compact design
- Uses HAN 'E' crimp terminals
- Inserts fit into metal or plastic hoods for Han 3/4A
- IP44

Working current	16A	Temperature range	-40°C to 125°C
Working voltage	240V (contact to earth) 400V (contact to contact)	Housing polycarbonate	UL94V-0
Insulation resistance	>10 <sup>10</sup> Ω	Contacts	Copper alloy, hard silver plated
		Crimp terminal	2.5 to 0.5mm <sup>2</sup>

227306

Size	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	100+
<b>5 Way + Earth, Han 5Q</b>						
Plug/Plug 3A	0912 005 3001	748-432				
Socket 3A	0912 005 3101	748-444				

### Housings for HAN 3A, HAN 4A, HAN 8D Size 3A



# Heavy Duty Connectors - Harting - continued

## Housings for HAN 3A, HAN 4A, HAN 8D - continued

### Size 3A - continued

Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
0920 003 1640	side	PG11	Metal	2 pgs	847-239
0920 003 1440	straight	PG11	Metal	2 pgs	314-729
0920 003 0420	straight	PG11	Plastic	2 pgs	151-859
0920 003 0301	bottom entry		Metal	1 lever	314-730
09 20 003 0820	side entry		Plastic	1 lever	345-4186
0920 003 0320	bottom entry		Plastic	1 lever	151-862
0920 003 1250		PG11	Metal	1 lever	345-4204

227307

Mfrs. List No.	Order Code	1+	5+	10+
<b>Hood</b>				
0920 003 1640	847-239			
0920 003 1440	314-729			
0920 003 0420	151-859			
<b>Housing Bulk Mounting</b>				
0920 003 0301	314-730			
09 20 003 0820	345-4186			
0920 003 0320	151-862			
<b>Housing Surface Mounting</b>				
0920 003 1250	345-4204			

### Hinged Cover



- Bulkhead mounting housing
- Fits 3A size modules
- Die cast metal cover
- Lockable with one lever

Material	Metal
Flammability	UL94V-0
Temperature range	-40°C to +125°C
IP Rating	IP67

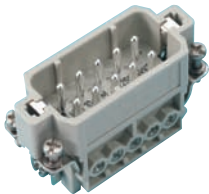


Pushing Performance

450159

Mfrs. List No.	Order Code	1+	5+	10+
With seal	09 20 003 0306	124-3960		

### Insert HAN 10A - Screw Termination



Pushing Performance

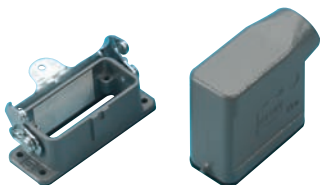
Standards	DIN VDE 0627, DIN VDE 0110	Insulation resistance	>10 <sup>10</sup> Ω
Approvals	UL, CSA, SEV	Material insulator	Polycarbonate
Current rating	10A	Mating cycles	≥500
No. of ways	10 + earth	Flammability	UL94V-0
Nominal voltage	230V	Temperature range	-40°C to +125°C
Environmental protection	3(c)		

227308

Size	Mfrs. List No.	Order Code	1+	5+	10+
<b>Male Insert</b>					
10A	0920 010 2612	HAN 10A	659-472		
<b>Female Insert</b>					
10A	0920 010 2812	HAN 10A	659-484		

### Housing for HAN 10A, HAN 15D

#### Size 10A



Pushing Performance

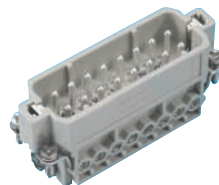
Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
<b>Hood</b>					
0920 010 1541	side	PG16	Metal	2 pgs	462-573
0920 010 1440	straight	PG13.5	Metal	2 pgs	462-585
<b>Housing Bulk Mounting</b>					
0920 010 0301			Metal	1 lever	462-597

Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
<b>Housing Bulk Mounting</b>					
0920 010 0321	with plastic cover		Metal	1 lever	345-4216
<b>Housing Surface, 1 Cable Entry</b>					
09 20 010 0252		PG21	Metal	1 lever	345-4228
<b>Housing Surface, 2 Cable Entries</b>					
09 20 010 0291		PG16	Metal	1 lever	345-4241

227309

Mfrs. List No.	Order Code	1+	5+	10+
<b>Hood</b>				
0920 010 1541	462-573			
0920 010 1440	462-585			
<b>Housing Bulk Mounting</b>				
0920 010 0301	462-597			
0920 010 0321	345-4216			
<b>Housing Surface, 1 Cable Entry</b>				
09 20 010 0252	345-4228			
<b>Housing Surface, 2 Cable Entries</b>				
09 20 010 0291	345-4241			

### Inserts HAN16A, HAN32A



Pushing Performance

Standards	DIN VDE 0627, DIN VDE 0110	Environmental protection	3(c)
Approvals	UL, CSA, SEV	Insulation resistance	>10 <sup>10</sup> Ω
Current rating	HAN 16A 10A HAN 32A 10A	Material insulator	Polycarbonate
No. of ways	HAN 16A 16 + earth (1-6)	Mating cycles	≥500
	HAN 32A 16 + earth (17-32)	Flammability	UL94V-0
Nominal voltage	HAN 3A 230V, HAN 4A 230V	Temperature range	-40°C to +125°C

227310

Size	Mfrs. List No.	Type	Order Code	1+	5+	10+
<b>Male Insert - Screw Termination</b>						
16A	0920 016 2612	HAN 16A (1-16)	659-496			
32A	09 20 016 261300	HAN 16A (17-32)	346-3916			
<b>Female Insert - Screw Termination</b>						
16A	0920 016 2812	HAN 16A (1-16)	659-502			
32A	09 20 016 281300	HAN 16A (17-32)	346-3928			

### Housings for HAN 16A, HAN 32A

#### Sizes 16A and 32A



Pushing Performance

Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
<b>HAN 16A, Size 16A</b>					
<b>Hood</b>					
0920 016 1541	side	PG16	Metal	2 pgs	847-240
0920 016 1441	straight	PG16	Metal	2 pgs	847-252
<b>Housing Bulk Mount</b>					
0920 016 0301			Metal	1 lever	151-863
0920 016 0321	With Thermoplastic Cover		Metal	1 lever	345-4289
<b>Housing Surface Mount, 1 Cable Entry</b>					
0920 016 0251		PG16	Metal	1 lever	345-4253
0920 016 0252		PG21	Metal	1 lever	345-4265
<b>Housing Surface Mount, 2 Cable Entries</b>					
09 20 016 0291		PG16	Metal	1 lever	345-4277
<b>HAN 32A, Size 32A</b>					
<b>Hood</b>					
<b>Housing Surface Mount, 1 Cable Entry</b>					
09 20 032 1520	side	PG21	Metal	4 pgs	345-4393
09 20 032 0521	side, high constr.	PG29	Metal	4 pgs	345-4381
09 20 032 0420	straight high constr.	PG21	Metal	4 pgs	345-4356
<b>Housing Bulk Mount</b>					
09 20 032 0301			Metal	2 levers	345-4344

227311

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
<b>Hood, Size 16A</b>				
0920 016 1541	847-240			
0920 016 1441	847-252			
<b>Housing Bulk Mount, Size 16A</b>				
0920 016 0301	151-863			
0920 016 0321	345-4289			
<b>Housing Surface Mount, 1 Cable Entry, Size 16A</b>				
0920 016 0251	345-4253			
0920 016 0252	345-4265			
<b>Housing Surface Mount, 2 Cable Entries, Size 16A</b>				
09 20 016 0291	345-4277			
<b>Hood, Size 32A</b>				
09 20 032 1520	345-4393			
09 20 032 0521	345-4381			
09 20 032 0420	345-4356			
<b>Housing Bulk Mount</b>				
09 20 032 0301	345-4344			

### Inserts HAN D



To obtain a 80 way version of HAN80D two inserts HAN40D have to be used. HAN 7D will only fit into plastic housings of the size 3A.



Standards	<b>DIN VDE 0627, DIN VDE 0110</b>	Environmental protection	3(c)
Approvals	<b>CSA, &amp; SEV. UL</b> Recognised	Insulation resistance	>10 <sup>10</sup> Ω
Current rating	10A	Material insulator	Polyamide
No. of ways	7, 15, 25, 40 and 64 + earth	Mating cycles	≥500
Nominal voltage	250V	Flammability	<b>UL94HB</b>
Proof voltage	2kV	Temperature range	-40°C to + 125°C

227312

Size	Mftrs. List No.	Type	Order Code	Price Each		
				1+	5+	10+
3A	0921 007 3031	HAN 7D	151-845			
3A	0936 008 3001	HAN 8D	345-5129			
10A	0921 015 3001	HAN 15D	462-550			
16A	0921 025 3001	HAN 25D	151-847			
16B	0921 040 3001	HAN 40D	151-849			
24B	09 21 064 3001	HAN 64D	151-851			
3A	0921 007 3131	HAN 7D	151-846			
3A	0936 008 3101	HAN 8D	345-5117			
10A	0921 015 3101	HAN 15D	462-561			
16A	0921 025 3101	HAN 25D	151-848			
16B	09 21 040 3101	HAN 40D	151-850			
24B	0921 064 3101	HAN 64D	151-852			

### Inserts HAN DD



Standards	<b>DIN VDE 0627, DIN VDE 0110</b>	Environmental protection	3(c)
Approvals	<b>CSA, &amp; SEV. UL</b> Recognised	Insulation resistance	>10 <sup>10</sup> Ω
Current rating	10A	Material insulator	Polyamide
No. of ways	24, 42, 72(1-72), 108, 144(73-144)	Mating cycles	≥500
Nominal voltage	250V	Flammability	<b>UL94HB</b>
Proof voltage	2kV	Temperature range	-40°C to + 125°C

227313

Size	Mftrs. List No.	Type	Order Code	Price Each	
				1+	25+
6B	0916 024 3001	HAN 24DD	462-688		
10B	0916 042 3001	HAN 42DD	462-706		
16B	0916 072 3001	HAN 72DD (1-72)	462-720		
24B	09 16 108 3001	HAN 108DD	462-743		
6B	09 16 024 3101	HAN 24DD	462-690		
10B	0916 042 3101	HAN 42DD	462-718		
16B	0916 072 3101	HAN 72DD (1-72)	462-731		
24B	0916 108 3101	HAN 108DD	462-755		

## Han D/DD Crimp Contacts



Pushing Performance

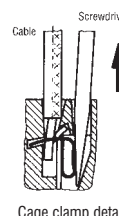
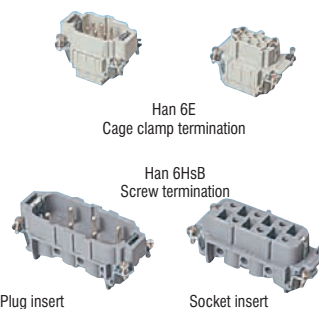
227314

Contacts Pin	Wire Size (mm <sup>2</sup> )	Order Code	Price Per Pack (10 Pieces)			
			1+	25+	50+	100+
09 15 000 6104	0.14-0.37	847-495				
09 15 000 6103	0.5	658-480				
09 15 000 6105	0.75	345-5920				
09 15 000 6102	1	151-853				
09 15 000 6101	1.5	658-492				
09 15 000 6106	2.5	658-509				

Contacts Socket	Wire Size (mm <sup>2</sup> )	Order Code	Price Per Pack (10 Pieces)			
			1+	25+	50+	100+
09 15 000 6204	0.14-0.37	847-501				
09 15 000 6203	0.5	659-370				
09 15 000 6205	0.75	345-5932				
09 15 000 6202	1	151-854				
09 15 000 6201	1.5	659-381				
09 15 000 6201	2.5	659-393				

Crimp Tool	Price Each		
	1+		
09 99 000 0110	728-380		
<b>Positioner</b>			
09 99 000 0111	151-856		
<b>Extraction Tool</b>			
09 99 000 0052	151-858		
09 99 000 0012	336-0465		

## Han 'E', HAN 6SB Heavy Duty Sealed 6, 10, 16, 24 Way (16A) + 6 Way (35A)



A rectangular multipole connector range with a working current of 16 amps @ 380V ac and sealed to IP65. The Han 'E' range feature cage clamp style for fast termination or screw termination. The Han 6HsB version is screw terminated but with an increased current capability of 35A. **Approvals, CSA, & SEV. UL** Recognised

Contact rating	16A @ 500V ac (Han E) 35A @ 500V ac (Han6 HsB)	Housing	Glass Filled Thermoplastic	UL listed
Wire size	Han E (cage clamp) 0.14 to 2.5mm <sup>2</sup> Han E (screw) 2.5mm <sup>2</sup>	Contacts	Copper Alloy, hard Silver Plated	
		Han 6sB (screw)	6mm <sup>2</sup>	

219683

Size	Order Code	Price Each				
		1+	10+	25+	50+	100+
<b>Screw Termination</b>						
<b>6 Way + Earth, Han 6E</b>						
Plug	6B	462-603				
Socket	6B	462-615				
<b>10 Way + Earth, Han 10E</b>						
Plug	10B	462-627				
Socket	10B	462-639				
<b>16 Way + Earth, Han 16E</b>						
Plug	16B	462-640				
Socket	16B	462-652				
<b>24 Way + Earth, Han 24E</b>						
Plug	24B	462-664				
Socket	24B	462-676				
<b>6 Way + Earth, Han 6HsB</b>						
Plug	16B	314-821				
Socket	16B	314-833				
<b>Cage Clamp Termination</b>						
<b>6 Way + Earth, Han 6E</b>						
Plug	6B	314-766				
Socket	6B	314-778				
<b>10 Way + Earth, Han 10E</b>						
Plug	10B	314-780				

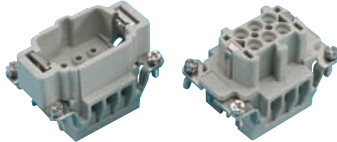
# Heavy Duty Connectors - Harting - continued

## Han 'E', HAN 6SB Heavy Duty Sealed - continued

6, 10, 16, 24 Way (16A) + 6 Way (35A) - continued

		Size	Order Code	1+	10+	25+	50+	100+
<b>16 Way + Earth, Han 16E</b>								
Plug	16B		314-808					
Socket	16B		314-810					
<b>24 Way + Earth, Han 24E</b>								
Plug	24B		151-843					
Socket	24B		151-844					

## HAN E for Crimp Contacts



● Same technical specification as HAN E but for crimp

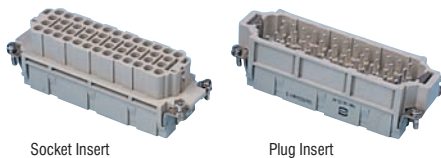
227316

Mfrs. List No.	No of ways	Size	Order Code	1+	5+	10+
<b>Male Insert</b>						
0933 006 2602	6	6B	345-4083			
09 33 016 2602	16	16B	345-4125			
0933 024 2602	24	24B	345-4149			
<b>Female Insert</b>						
09 33 006 2702	6	6B	345-4095			
09 33 016 2702	16	16B	345-4137			
09 33 024 2702	24	24B	345-4150			

Contacts Pin	Wire Size (mm <sup>2</sup> )	Order Code	Price Per Pack (10 Pieces)		
			1+	25+	50+
09 33 000 6121	0.5	847-513			
09 33 000 611400	0.75	345-5890			
09 33 000 6105.	1	847-525			
09 33 000 6104	1.5	847-537			
09 33 000 6102	2.5	847-549			
<b>Contacts Socket</b>					
09 33 000 6220	0.5	847-562			
09 33 000 6214	0.75	345-5907			
09 33 000 6205.	1	847-574			
09 33 000 6204	1.5	847-586			
09 33 000 6202	2.5	847-598			
09 33 000 6207	4	847-604			

	Order Code	Price Each
<b>Crimp Tool</b>		1+
0999 000 0110	728-380	
<b>Extraction Tool</b>		
0999 000 0319	728-408	

## Han 'EE' High-Density Crimp



- Han 'EE' has a contact density up to twice that of Han 'E'
- Savings in space and assembly costs
- Uses Han 'E' crimp contacts for wire sizes 1.0, 1.5 and 2.5mm<sup>2</sup>
- Utilises the full range of Harting hoods and housings
- Approvals: **UL, CSA and IP65** Rated

Working current	20A	Housing	PolycarbonateUL94V-0
Working voltage	500V	Contacts	Copper Alloy, hard Silver plated
Insulation resistance	>Ω	Crimp terminal	0.5 to 4mm <sup>2</sup>
Temperature range	-40°C to +125°C		

213767

Size	Mfrs. List No.	Order Code	1+	10+	25+	50+
<b>10 Way + Earth, Han 10EE</b>						
Plug/Plug	6B 0932 010 3001	728-421				
Socket	6B 0932 010 3101	728-433				
<b>18 Way + Earth, Han 18EE</b>						
Plug/Plug	10B 0932 018 3001	728-445				
Socket	10B 0932 018 3101	728-457				

Size	Mfrs. List No.	Order Code	1+	10+	25+	50+
<b>32 Way + Earth, Han 32EE</b>						
Plug/Plug	16B 09 32 032 3001	728-469				
Socket	16B 0932 032 3101	728-470				
<b>46 Way + Earth, Han 46EE</b>						
Plug/Plug	24B 0932 046 3001	728-482				
Socket	24B 0932 046 3101	728-494				

## Han E/EE Crimp Contacts



Pushing Performance

227317

Contacts Pin	Wire Size (mm <sup>2</sup> )	Order Code	1+	25+	50+	100+
09 33 000 6121	0.5	847-513				
09 33 000 6114	0.75	345-5890				
09 33 000 6105	1	847-525				
09 33 000 6104	1.5	847-537				
09 33 000 6102	2.5	847-549				

Contacts Socket	Wire Size (mm <sup>2</sup> )	Order Code	1+	25+	50+	100+
09 33 000 6220	0.5	847-562				
09 33 000 6214	0.75	345-5907				
09 33 000 6205	1	847-574				
09 33 000 6204	1.5	847-586				
09 33 000 6202	2.5	847-598				
09 33 000 6207	4	847-604				

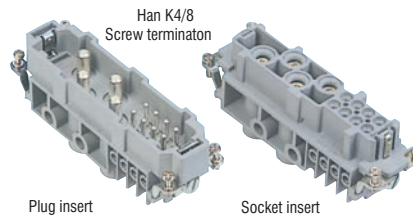
	Price Each
<b>Crimp Tool</b>	1+
0999 000 0110	728-380
<b>Extraction Tool</b>	
0999 000 0319	728-408

## Han 'K' Heavy Duty Sealed

8/24(16A), 6/12(40A), 4/2, 4/8 Way (80), 6/6 Way (100)



Pushing Performance



- High power and control/signal connections in one insert
  - Screw and crimp terminals
  - Space and cost savings
  - Inserts fit into standard hoods and housings
  - **IP65** protection
  - Approvals : **CSA, UL** Recognised
- |                   |          |   |
|-------------------|----------|---|
| Contact rating    | (power)  | 16A @ 400V ac (8/24)<br>40A @ 690V ac (6/36)<br>80A @ 690V ac (4/2)<br>80A @ 400V ac (4/8)<br>100A @ 600V ac (6/6)                            |
|                   | (signal) | 10A @ 250V ac (6/36, 8/24)  |
| Temperature range |          | -40°C to +125°C   |
| Wire size         | (power)  | 0.5 to 4.0mm <sup>2</sup> (8/24)<br>1.5 to 6.0mm <sup>2</sup> (6/36)<br>1.5 to 16mm <sup>2</sup> (4/2, 4/18)<br>16 to 35mm <sup>2</sup> (6/6) |
|                   | (signal) | 0.5 to 2.5mm <sup>2</sup> (4/2, 4/8, 6/36, 8/24)<br>0.2 to 2.5mm <sup>2</sup> (6/6)   |
- |          |                                  |           |
|----------|----------------------------------|-----------|
| Housing  | Glass filled thermoplastic       | UL Listed |
| Contacts | Copper alloy, hard silver plated |           |
- Note:** Han 6/3 and 8/24 takes crimp contacts, order separately

219715

Size	Mfrs. List No.	Order Code	1+	10+	25+	50+
<b>Han 4/2 + Earth</b>						
Plug/Plug	16B 0938 006 2601	659-411				
Socket	16B 0938 006 2701	659-423				
<b>Han 4/8 + Earth</b>						
Plug/Plug	24B 0938 012 2601	659-435				
Socket	24B 0938 012 2701	659-447				
<b>Han 6/6 + Earth</b>						
Plug/Plug	24B 0938 012 2651	659-459				
Socket	24B 0938 012 2751	659-460				



Size	Mftrs. List No.	Order Code	1+	10+	25+	50+
<b>Han K6/3 + Earth</b>						
Plug/Plug	16B 09 38 042 3001	728-500				
Socket	16B 09 38 042 3101	728-512				
<b>Han K8/24 + Earth</b>						
Plug/Plug	10B 09 38 032 3001	748-419				
Socket	10B 09 38 032 3101	748-420				

Mftrs. List No.	Order Code	1+	5+	10+
<b>Housing Surface Mount, 2 Cable Entries</b>				
09 30 006 1296	345-4459			
<b>Hood Coupler</b>				
0930 006 1750	345-4460			
<b>Cover</b>				
09 30 006 5427	345-4472			

### STAF



Pushing Performance

Insert	Hood Size	No. of ways
STAF 6	3A	6
STAF 14	10A	14
STAF 20	16A	20

Standards	DIN VDE 0627, DIN VDE 0110	Environmental protection	3(C)
Approvals	CSA, SEV, UL Recognised	Insulation resistance	10 <sup>10</sup> Ω
No. of ways	6, 14, 20, 40 (2 20)	Material insulator	Polyamide
Current rating	Max. 10A	Flammability	UL94-HB
Nominal voltage	25V AC/60C DC	Mating cycles	≥500
Proof voltage	1.5kV	Temperature range	-40°C to +100°C

227318

#### Price Each

Size	Mftrs. List No.	Type	Order Code	1+	5+	10+
<b>Male Insert Screw Terminal</b>						
3A	0970 006 2616	STAF 6	341-4772			
16A	09 70 020 2622	STAF 20	345-5180			
<b>Male Insert Solder Terminal</b>						
3A	09 70 006 2615	STAF 6	345-5130			
16A	09 70 014 2613	STAF 14	345-5154			
<b>Female Insert Screw Terminal</b>						
3A	0970 006 2813	STAF 6	341-4802			
16A	09 70 020 2817	STAF 20	345-5208			
<b>Female Insert Solder Terminal</b>						
3A	09 70 006 2812	STAF 6	345-5142			
10A	09 70 014 2810	STAF 14	345-5166			
16A	09 70 020 2816	STAF 20	345-5191			

### Housings for HAN 6E, HAN 10EE, HAN 24DD Size 6B



Pushing Performance

Mftrs. List No.	Cable Entry	Thread	Material	Type	Order Code
<b>Hood</b>					
0930 006 1540	Side	PG13.5	Metal	2 pegs	314-845
09 30 006 0443	Straight, high constr.	PG29	Metal	2 pegs	345-4423
0930 006 1440	Straight	PG13.5	Metal	2 pegs	462-767

<b>Housing Bulk Mount</b>					
0930 006 0301			Metal	1 lever	314-857
09 30 006 0302	With plastic cover		Metal	1 lever	345-4411

<b>Housing Surface Mount, 1 Cable Entry</b>					
0930 006 1251		PG16	Metal	1 lever	659-551
09 30 006 1256	With plastic cover	PG16	Metal	1 lever	345-4435

<b>Housing surface Mount, 2 Cable Entries</b>					
09 30 006 1296	With plastic cover	PG16	Metal	1 lever	345-4459

<b>Hood Coupler</b>					
0930 006 1750		PG13.5	Metal	1 lever	345-4460

<b>Cover</b>					
09 30 006 5427			Metal		345-4472

227319

#### Price Each

Mftrs. List No.	Order Code	1+	5+	10+
<b>Hood</b>				
0930 006 1540	314-845			
09 30 006 0443	345-4423			
0930 006 1440	462-767			
<b>Housing Bulk Mount</b>				
0930 006 0301	314-857			
09 30 006 0302	345-4411			
<b>Housing Surface Mount, 1 Cable Entry</b>				
0930 006 1251	659-551			
09 30 006 1256	345-4435			

### Housings for HAN 10E, HAN 18EE, HAN 42DD, K10B Size 10B



Pushing Performance

Mftrs. List No.	Cable Entry	Thread	Material	Type	Order Code
<b>Hood</b>					
0930 010 1421	Top	PG16	Metal	4 pegs	462-779
0930 010 1521	Side	PG16	Metal	4 pegs	101-521
0930 010 1541	Side	PG16	Metal	2 pegs	345-4629
0930 010 0542	Side, high constr.	PG21	Metal	2 pegs	345-4538
0930 010 0423	Top, high constr.	PG29	Metal	4 pegs	345-4514
0930 010 1431	Top	PG16	Metal	2 levers	345-4605

<b>Housing Bulk Mount</b>					
0930 010 0301			Metal	2 levers	100-301
09 30 010 0303	With plastic cover		Metal	1 lever	345-4496
0930 010 0305			Metal	1 lever	345-4502

<b>Housing Surface Mount, 1 Cable Entry</b>					
0930 010 1231		PG16	Metal	2 levers	659-563
0930 010 1251		PG16	Metal	1 lever	345-4563

<b>Housing Surface Mount, 2 Cable Entries</b>					
09 30 010 1271		PG16	Metal	2 levers	345-4575

227320

#### Price Each

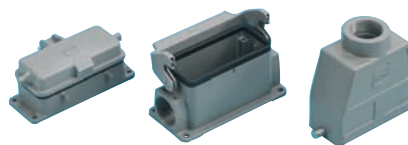
Mftrs. List No.	Order Code	1+	5+	10+
<b>Hood</b>				
0930 010 1421	462-779			
0930 010 1521	101-521			
0930 010 1541	345-4629			
0930 010 0542	345-4538			
0930 010 0423	345-4514			
0930 010 1431	345-4605			

<b>Housing Bulk Mount</b>				
0930 010 0301	100-301			
09 30 010 0303	345-4496			
0930 010 0305	345-4502			

<b>Housing Surface Mount, 1 Cable Entry</b>				
0930 010 1231	659-563			
0930 010 1251	345-4563			

<b>Housing Surface Mount, 2 Cable Entries</b>				
09 30 010 1271	345-4575			

### Housings for HAN 16E, 32EE, HSB, K16B, 40D Size 16B



Pushing Performance

Mftrs. List No.	Cable Entry	Thread	Material	Type	Order Code
<b>Hood</b>					
0930 016 1520	side	PG21	Metal	4 pegs	161-520
09 30 016 0540	side, high constr.	PG21	Metal	2 pegs	345-4691
09 30 016 0440	straight, high constr.	PG21	Metal	2 pegs	345-4680
0930 016 1430	straight	PG21	Metal	2 levers	345-4769
09 30 016 1530	side	PG21	Metal	2 levers	345-4770
0930 016 1540	side	PG21	Metal	2 pegs	345-4782
0930 016 0420	straight, high constr.	PG21	Metal	4 pegs	462-780
0930 016 0521	side, high constr.	PG29	Metal	4 pegs	152-003

<b>Housing Bulk Mount</b>					
0930 016 0301		PG21	Metal	2 levers	160-301
0930 016 0302	with plastic cover	PG21	Metal	4 pegs, no lever	345-4654
0930 016 0306	with plastic cover	PG21	Metal	1 lever	345-4666
0930 016 0307		PG21	Metal	1 lever	345-4678

<b>Housing Surface Mount, 1 Cable Entry</b>					
0930 016 1250		PG21	Metal	1 lever	345-4721
09 30 016 1220		PG21	Metal	4 pegs, no lever	345-4710
0930 016 1230		PG21	Metal	2 lever	659-575

# Heavy Duty Connectors - Harting - continued

## Housings for HAN 16E, 32EE, HSB, K16B, 40D - continued

### Size 16B - continued

Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
<b>Housing Surface Mount, 2 Cable Entries</b>					
09 30 016 1270		PG21	Metal	2 levers	345-4745
<b>Hood Coupler</b>					
09 30 016 1730	straight	PG21	Metal	2 levers	345-4794
09 30 016 0731	straight, high constr.	PG29	Metal	2 lever	345-4708

227321

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
<b>Hood</b>				
0930 016 1520	161-520			
09 30 016 0540	345-4691			
09 30 016 0440	345-4680			
0930 016 1430	345-4769			
09 30 016 1530	345-4770			
0930 016 1540	345-4782			
0930 016 0420	462-780			
0930 016 0521	152-003			
<b>Housings Bulk Mount</b>				
0930 016 0301	160-301			
0930 016 0302	345-4654			
0930 016 0306	345-4666			
0930 016 0307	345-4678			
<b>Housing Surface Mount, 1 Cable Entry</b>				
0930 016 1250	345-4721			
09 30 016 1220	345-4710			
0930 016 1230	659-575			
<b>Housing Surface Mount, 2 Cable Entries</b>				
09 30 016 1270	345-4745			
<b>Hoods Coupler</b>				
09 30 016 1730	345-4794			
09 30 016 0731	345-4708			

## Metric Hoods and Housings

### Size 16B

- Complies with DIN EN 50262
- Required on new equipment for CE conformance



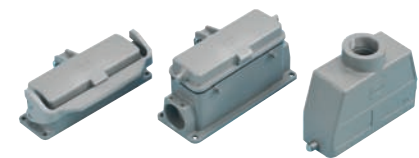
Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
<b>Hood</b>					
19300161521	Side Entry Low Construction	M25	Metal	4 Pegs	417-6467
19 30 016 0527	Side Entry High Construction	M32	Metal	4 Pegs	417-6479
19 30 016 0427	Top Entry Low Construction	M32	Metal	4 Pegs	417-6492
19300161231	Surface Hsng Single Entry	M25	Metal	2 Levers	417-6522

246646

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
<b>Hoods</b>				
19300161521	417-6467			
19 30 016 0527	417-6479			
19 30 016 0427	417-6492			
<b>Surface Mount Housing</b>				
19300161231	417-6522			

## Housings for HAN 24E, 46EE, 108DD, 64D, K24B

### Size 24B



Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
<b>Hood</b>					
0930 024 1520	side	PG21	Metal	4 pegs	151-861
0930 024 0421	straight, high constr.	PG29	Metal	4 pegs	462-792
0930 024 0521	side, high constr.	PG29	Metal	4 pegs	152-004
0930 024 1421	straight	PG29	Metal	4 Pegs	462-809
09 30 024 0440	straight, high constr.	PG21	Metal	2 Pegs	345-4848
09 30 024 0540	side, high constr.	PG21	Metal	2 Pegs	345-4850
09 30 024 1431	straight	PG29	Metal	2 Levers	345-4939
09 30 024 1530	side	PG21	Metal	2 Levers	345-4940
0930 024 1540	side	PG21	Metal	2 pegs	345-4952
<b>Housing Bulkhead Mount</b>					
0930 024 0301			Metal	2 levers	151-864
0930 024 0304	with plastic cover		Metal	1 lever	345-4812
0930 024 0307			Metal	1 lever	345-4824

Mfrs. List No.	Cable Entry	Thread	Material	Type	Order Code
<b>Housing Surface Mount, 1 Cable Entry</b>					
0930 024 1230		PG21	Metal	2 levers	659-587
09 30 024 1220	with plastic cover	PG21	Metal	2 pegs, no lever	345-4885
09 30 024 1250		PG21	Metal	1 lever	345-4897
<b>Housing Surface Mount, 2 Cable Entries</b>					
09 30 024 1270		PG21	Metal	2 levers	345-4915
<b>Hood Coupler - Cable to Cable</b>					
09 30 024 0730	straight, high constr.	PG21	Metal	2 levers	345-4861

227322

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
<b>Hood</b>				
0930 024 1520	151-861			
0930 024 0421	462-792			
0930 024 0521	152-004			
0930 024 1421	462-809			
09 30 024 0440	345-4848			
09 30 024 0540	345-4850			
09 30 024 1431	345-4939			
09 30 024 1530	345-4940			
0930 024 1540	345-4952			
<b>Housing Bulkhead Mount</b>				
0930 024 0301	151-864			
0930 024 0304	345-4812			
0930 024 0307	345-4824			
<b>Housing Surface Mount, 1 Cable Entry</b>				
0930 024 1230	659-587			
09 30 024 1220	345-4885			
09 30 024 1250	345-4897			
<b>Housing Surface Mount, 2 Cable Entry</b>				
09 30 024 1270	345-4915			
<b>Hood Coupler - Cable to Cable</b>				
09 30 024 0730	345-4861			

## Covers with Retaining Strap



- Die cast metal covers for housings
- Fits chassis and surface housings
- Provides IP65 protection when fitted
- Prevents corrosion and connector damage
- Used when connector not engaged

219716

For Housing	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
314-857, 659-551	0930 006 5425	659-514			
100-301, 659-563	0930 010 5425	659-526			
160-301, 659-575	0930 016 5425	659-538			
151-864, 659-587	0930 024 5425	659-540			

## Han Cable Seals and Strain Reliefs



- Bell-mouth metal strain relief
- Fits 'Han' hoods above
- Multiple knockout rubber seals
- IP65 protection
- Han 7D sealing kit supplied with plastic locknut as standard

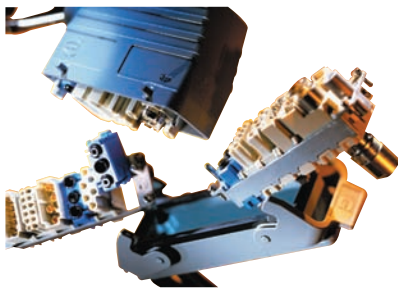
**Note:** The strain relief and sealing kit require the same Pg number as the hood to fit correctly.

Mfrs. List No.	0900 000 5101=314-742,	0900 000 5102=314-869,	0900 000 5103=314-870,
	0900 000 5104=314-882,	0900 000 5106=152-005,	0900 000 5027=314-754,
		0900 000 5164=151-865,	

208996

Connector type	Thread	Order Code	Price Each			
			1+	10+	25+	100+
<b>Strain Relief</b>						
HAN 3A, 4A	PG11	314-742				
HAN 6E, 24DD	PG13.5	314-869				
HAN 10E, 15D, 42DD	PG16	314-870				
HAN 16E, 24E, 6HSB						
25D, 72DD, 108DD	PG21	314-882				
HAN 40D, 64D,						
108DD	PG29	152-005				
<b>Sealing Kit</b>						
HAN 3A, 4A	PG11	314-754				
HAN 7D						
(includes locknut)	PG11	151-865				

## HAN Modular



Survey	Suitable Housing Size	Survey	Survey	Survey	Survey
1. Frames		2 Modules	6B 4 Modules	16B 2 4 Modules	24B
1 Module	10A	3 Modules	10B 6 Modules	32B 2 6 Modules	48B
2. Modules					
Type	Medium	Termination	Current (A)	Voltage (V)	
HAN Axial Screw Module	Electric	Screw	100	1000	
HAN Axial Screw Module	Electric	Screw	40	1000	
HAN C Module	Electric	Crimp	40	400/690	
HAN E Module	Electric	Crimp	16	500	
HAN EE Module	Electric	Crimp	16	400	
HAN ES Module	Electric	Cage Clamp	16	400	
HAN DD Module	Electric	Crimp	10	250	
HAN Multi Contact Module	Electric	Crimp/Solder	1.5	50 (Coaxial) 1000 (High Voltage)	
HAN Quintax	Electric	Crimp	10	42	
HAN Pneumatic Module	Air	Plug	8 bar	Hose	
				1.6;3.0;4.0;6.0mm	

227326

## Frame 1 Module



- Grounding system according to **DIN-VDE**
- Rigid Zamac-diecast
- Both male and female modules can be mounted in the this frame
- Frame suitable for hood and housing



Standards **DIN VDE 0627, DIN VDE 0110**  
Approvals **CSA, UL** Recognised

Material Zamac  
Temperature range -40°C to +125°C

227327

Mftrs. List No.	No. of Modules	Order Code	1+	5+	10+
0914 000 0304	1	345-5257			

## Hinged Frame



- Grounding according to **DIN-VDE**
- Rigid Zamac-diecast
- Both male and female modules can be combined in one frame
- Hinged frame are suitable for standard housings
- Modules removable without extraction tool
- Vibration proof improved mechanical lock of modules



Standards **DIN VDE 0627, DIN VDE 0110**  
Approvals **CSA, UL** Recognised

Material Zamac  
Temperature range -40°C to +125°C

227328

Mftrs. List No.	No. of Modules	Order Code	1+	5+	10+
<b>Frame for Hood</b>					
0914 006 0303	2	332-9768			
0914 010 0303	3	332-9781			
09 14 016 0303	4	332-9800			
09 14 024 0303	6	332-9823			
<b>Frame for Housing</b>					
0914 006 0313	2	332-9770			
0914 010 0313	3	332-9793			
09 14 016 0313	4	332-9811			
09 14 024 0313	6	332-9835			

## HAN Axial Screw Module 100A



- 2 contacts 100A for power circuits
- Male insert with additional protective collar
- Axial screw termination for wire sizes of 16 to 35mm<sup>2</sup> can be combined with all HAN modules
- Polarisation
- Connect PE-Kontakt only with special cable shoe



Standards **DIN VDE 0627, DIN VDE 0110**

Inserts		Mating cycles	≥500
Number of ways	2	Temperature min.	-40°C/125°C/125°C
Current rating	100A	Temperature max.	125°C
Nominal voltage	1000V	<b>Contacts</b>	
Proof voltage	4kV3	Material	Copper Alloy
Environmental category	3CC>	Contact plating	Silver30µmAg
Insulation resistance	MΩ	Contact resistance	≤0.3mΩ
	Polycarbonate		
Material	Polycarbonate	Wire Size min.	16mm2/3535mm <sup>2</sup>
		Wire Size max.	35mm2

227329

	Mftrs. List No.	Order Code	1+	10+	25+
Male Insert	09 14 002 2651	345-3870			
Female Insert	0914 002 2751	345-3881			
Cable Shoe	09 14 000 9912	345-4010			

## 100A Male / Female Crimp Modules

**NEW**



100A rated crimp terminals with female or male inserts for standard wire accredited to IEC 60228 Class 5.

- Silver plated contacts available from 10 - 35mm<sup>2</sup> wire gauge
- Removal tool available

No. of Ways	2	Flammability	V 0
Gender	Plug / Receptacle	Mating Cycles	> = 500
Contact Material	Polycarbonate	Operating Temperature	-40 to 125°C
Insert Material	Copper	Termination Method	Crimp

659024

Mftrs. List No.	Gender	Order Code	1+	5+	10+	50+
09 14 002 3051	Plug	189-2258				
09 14 002 3151	Receptacle	189-2259				
<b>Contacts</b>		Wire Gauge (mm <sup>2</sup> )				
09 11 000 6116	Plug	16	189-2261			
09 11 000 6125	Plug	25	189-2263			
09 11 000 6135	Plug	35	189-2266			
09 11 000 6216	Receptacle	16	189-2262			
09 11 000 6225	Receptacle	25	189-2264			
09 11 000 6235	Receptacle	35	189-2267			
<b>Accessories</b>						
09 99 000 0383	Contact Removal Tool	189-2260				

## HAN C Module



- 3 contacts 40A for power circuits
- Male insert with additional protective shroud
- Polarisation
- Crimp-termination
- Male and Female inserts can be combined in one frame

Standards: **DIN VDE 0627, DIN VDE 0110**  
Approvals: **CSA, UL** Recognised



Insert		Material	Polycarbonate
Number of ways	3	Flammability	<b>UL94V-0</b>
current rating	40A	Mating cycles	≥500
Nominal voltage		Temperature range	-40°C to +125°C
Cable Ø max. 5mm	400/690V	Material	Copper Alloy
Cable Ø max. 7.5mm	500V	Plating	Silver 30µmm <sup>2</sup> Ag
Proof voltage	3kV	Contact resistance	≤0.3mΩ
Environmental protection	3(C)	Termination	1.5-16mm <sup>2</sup> (16-10 AWG)
Insulation resistance	≥10 <sup>10</sup> Ω		

227331

Mftrs. List No.	Cable Ø	Order Code	1+	5+	10+
<b>Male Insert</b>					
0914 003 3001	5mm	728-093			
09 14 003 3002	7.5mm	345-5269			
<b>Female Insert</b>					
0914 003 3101	5mm	728-100			
09 14 003 3102	7.5mm	345-5270			
	Wire Size mm <sup>2</sup>		<b>Price Per Pack (10 Pieces)</b>		
			1+	10+	25+ 50+
<b>Crimp Contacts Pin</b>					
09 32 000 6104	1.5	335-4350			
09 32 000 6105	2.5	335-4362			
09 32 000 6107	4.0	728-160			
09 32 000 6108	6.0	728-172			
<b>Crimp Contacts Socket</b>					
09 32 000 6204	1.5	335-4374			
09 32 000 6205	2.5	335-4386			
09 32 000 6207	4.0	728-184			
09 32 000 6208	6.0	728-196			

# Heavy Duty Connectors - Harting - continued

## HAN C Module - continued

Mfrs. List No.	Cable Ø	Order Code	Price Each		
			1+	5+	10+
<b>Crimp Tool</b>			<b>Price Each</b>		
09 99 000 0303		728-354			
<b>Positioner</b>					
09 99 000 0112		728-391			
<b>Positioner</b>					
09 99 000 0112.		847-616			
<b>Extraction Tool</b>					
0999 000 0305		728-378			

## HAN C Axial Screw Module



- Compatible with the Han C-module with crimp terminal
- Can be combined with all HAN modules
- Suitable for all HAN B hoods and housings as well as HAN Modular Compact hoods and housings (high construction)

Insert	Number of ways	3	Flammability	UL94V-0
Current rating	40A		Mating cycles	≥500
Nominal voltage	690V		Temperature range	-40°C to +125°C
Environmental protection	3(C)		<b>Contact</b>	
Insulation resistance	≥10 <sup>10</sup> Ω		Material	Copper Alloy
Material	Polycarbonate		Plating	Silver 30μm <sup>2</sup> Ag
			Contact resistance	≤0.5Ω

	Wire Size mm <sup>2</sup>	Mfrs. List No.	Order Code	1+	5+	10+
Male Insert	2.5-8	09140032601	124-3956			
Female Insert	2.5-8	09 14 003 2701	124-3957			
Male Insert	6-10	09 14 003 2602	124-3958			
Female Insert	6-10	09140032702	124-3959			

## HAN CC Protected Module



- Finger protected male and female contacts
- Suitable for high working voltage of 830V
- Suitable for all HAN B hoods and housings as well as HAN Modular Compact hoods and housings (except for HAN 6 low construction)

Number of ways	4	Material	Polycarbonate
Current rating	40A	Flammability	UL94V-0
Nominal voltage	830V	Mating cycles	≥500
Insulation resistance	≥10 <sup>10</sup> Ω	Temperature range	-40°C to +125°C

	Mfrs. List No.	Order Code	1+	5+	10+
Male Insert	09 14 004 3041	124-3952			
Female Insert	09 14 004 3141	124-3953			

## HAN E Module



- 6 contacts 16A for power circuits
- Male insert with additional protective shroud
- Polarisation
- Crimp termination
- Male and female inserts can be combined in one frame

Standards:	DIN VDE 0627, DIN VDE 0110
Approvals:	CSA, UL Recognised

Insert	Number of ways	6	Mating cycles	≥500
Current rating	16A		Temperature range	-40°C to +125°C
Nominal voltage	500V		<b>Contact</b>	
Proof voltage	3kV		Material	Copper Alloy
Environmental protection	3(C)		Plating	Silver 3μm <sup>2</sup> Ag
Insulation resistance	≥10 <sup>10</sup> Ω		Contact resistance	≤0.3Ω
Material	Polycarbonate		Termination	0.5-4.0mm <sup>2</sup> (20-12AWG)
Flammability	UL94V-0			

227332

Mfrs. List No.	Order Code	1+	5+	10+
<b>Male Insert</b>				
09 14 006 3001	728-111			
<b>Female Insert</b>				
0914 006 3101	728-123			
	Wire Size mm <sup>2</sup>	Price Per Pack (10 Pieces)		
		1+	25+	50+
<b>Crimp Contacts Pin</b>				
09 33 000 6121	0.5	847-513		
09 33 000 611400	0.75	345-5890		
09 33 000 6105.	1.0	847-525		
09 33 000 6104	1.5	847-537		
09 33 000 6102	2.5	847-549		
<b>Crimp Contacts Socket</b>				
09 33 000 6220	0.5	847-562		
09 33 000 6214	0.75	345-5907		
09 33 000 6205.	1.0	847-574		
09 33 000 6204	1.5	847-586		
09 33 000 6202	2.5	847-598		
09 33 000 6207	4.0	847-604		
Crimp Tool		Price Each		
09 99 000 0110	728-380			
<b>Extraction Tool</b>				
0999 000 0319	728-408			

## HAN EE Module



- Polarisation
- Crimp-termination
- 8 contacts 16A for power circuits
- Male insert with additional protective shroud
- Combination of male and female inserts in one frame possible

Standards: DIN VDE 0627, DIN VDE 0110  
Approvals: CSA, UL Recognised

Inserts	No. of ways	8	Temperature range	≥500
Current rating	16A		Contacts	-40°C to +125°C
Nominal voltage	400V		Material	Copper Alloy
Proof voltage	3kV		Plating	Silver
Environmental protection	3 (C)		Contact resistance	≤1Ω
Insulation resistance	≥Ω		Termination	0.5
Material	Polycarbonate			
Flammability	UL94V-0			

227340

Mfrs. List No.	Order Code	1+	5+	10+
<b>Male Insert</b>				
0914 008 3001	345-3911			
<b>Female Insert</b>				
0914 008 3101	345-3923			
	Wire Size (mm <sup>2</sup> )	Price Per Pack (10 Pieces)		
		1+	25+	50+
<b>Crimp Contact Pin</b>				
09 33 000 6121	0.5	847-513		
09 33 000 611400	0.75	345-5890		
09 33 000 6105.	1	847-525		
09 33 000 6104	1.5	847-537		
09 33 000 6102	2.5	847-549		
<b>Crimp Contact Socket</b>				
09 33 000 6220	0.5	847-562		
09 33 000 6214	0.75	345-5907		
09 33 000 6205.	1	847-574		
09 33 000 6204	1.5	847-586		
09 33 000 6202	2.5	847-598		
09 33 000 6207	4	847-604		
Crimp Tool		Price Each		
09 99 000 0110	151-855			
0999 000 0319	728-408			

## HAN DD Module



- 12 contact silos for population with signal contacts 10A
- Male insert with additional protective shroud
- Polarisation
- Crimp-termination
- Male and female inserts can be combined in one frame

Standards: DIN VDE 0627, DIN VDE 0110  
Approvals: CSA, Recognised

Insert	Number of ways	12	Current rating	10A
			Nominal voltage <td>250V</td>	250V

Proof voltage	2kV	Temperature range	-40°C to +125°C
Environmental protection	3(C)	Material	Copper Alloy
Insulation resistance	≥10 <sup>10</sup> Ω	Plating	Silver 3μmm <sup>2</sup> Ag
Material	Polycarbonate	Contact resistance	≤3Ω
Flammability	UL94V-0	Termination	0.14-2.5mm <sup>2</sup>
Mating cycles	≥500		(26-14AWG)

227333

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
<b>Male Insert</b>				
09 14 012 3001	728-135			
<b>Female Insert</b>				
0914 012 3101	728-147			
	Wire Size	Price Per Pack (10 Pieces)		
	mm <sup>2</sup>	1+	25+	50+
<b>Crimp Contacts Pin</b>				
09 15 000 6104	0.14-0.37	847-495		
66 15 000 610391	0.5	658-480		
09150006105	0.75	345-5920		
09 15 000 6102	1.0	151-853		
66 15 000 610191	1.5	658-492		
09 15 000 6106	2.5	658-509		
<b>Crimp Contacts Socket</b>				
09 15 000 6204	0.14-0.37	847-501		
09 15 000 6203	0.5	659-370		
09 15 000 620500	0.75	345-5932		
09 15 000 6202	1.0	151-854		
66 15 000 620191	1.5	659-381		
09 15 000 6206	2.5	659-393		
<b>Crimp Tool</b>				
09 99 000 0110	728-380			
<b>Positioner</b>				
09 99 000 0111	151-856			
<b>Extraction Tool</b>				
0999 000 0319	standard	728-408		
0999 000 0012	with central rod	336-0465		

### HAN DDD Module



- High contact density
- Can be combined with all HAN modules
- Suitable for all HAN B hoods and housings as well as HAN Modular Compact hoods and housings



Number of ways	17	Material	Polycarbonate
Current rating	10A	Flammability	UL94V-0
Nominal voltage	160V	Mating cycles	≥500
Insulation resistance	≥10 <sup>10</sup> Ω	Temperature range	-40°C to +125°C

450141

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
<b>Male Insert</b>				
09 14 017 3001	124-3944			
<b>Female Insert</b>				
09 14 017 3101	124-3945			

### HAN Multicontact Module



- 4 Contact silos for population with coaxial and high voltage contacts
- Male insert with additional protective shroud
- Polarisation
- Male and female inserts can be combined in one frame



Possible contact arrangements	Male insert	Female Insert
Contacts	09 14 004 4501	09 14 004 4512
Coaxial	Socket Contacts	Pin Contacts
High Voltage	Socket Contacts	Pin Contacts

Coaxial Cable	Insulation	Centre Conductor
Cable Type	Ømm	Ømm
50 Ohm		
RG 174 /U	2.5	0.48
RG 188 A/U	2.5	0.54
RG 316 /U	2.5	0.54
75Ω		
RG 179 B/U	2.55	0.3
RG 187 A/U	2.7	0.3

Standards: DIN VDE 0627, DIN VDE 0110

Approvals: CSA UL Recognised

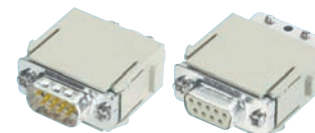
Male Inserts	Contact Resistance	High Voltage Contacts
No of Ways	Centre	Material
Environmental Protection	Outside	Plating
Insulation Resistance	Current Rating	
Material	Nominal Voltage	
Flammability		
Mating Cycles		
Temperature Range		

Coaxial Contacts	Material	Contact Resistance	≤3mΩ
Material	Copper Alloy	Current Rating	max. 1.5A
Plating	Gold 2.5μm/0.8μm over 4μm Ni	Nominal Voltage	1000V if populated with high voltage contacts only
Impedance	50Ω/75Ω		

660346

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
<b>Male Insert</b>				
09 14 004 4501	854-451			
<b>Female Insert</b>				
09 14 004 4512	854-463			
		1+	25+	50+
<b>Coaxial Contact Pin</b>				
09 14 000 611100	50Ω	345-8337		
09 14 000 6121	75Ω	345-8349		
<b>Coaxial Contact Socket</b>				
09 14 000 621100	50Ω	345-8350		
09 14 000 622100	75Ω	345-8362		
<b>High Voltage Contacts</b>				
09 03 000 6140	Pin	114-2815		
09 03 000 6240	Socket	110-6829		
<b>Accessories</b>				
09 99 000 0194	Crimp Tool	206-5180		

### HAN D Sub Module



- 9-pin D-Sub connector
- Accepts most standard D sub formats
- Can be combined with all HAN modules



Standards DIN VDE 0627, DIN VDE 0110, DIN EN 61984

Current rating	5A	Environmental category	3CC>
Voltage Rating	50V	Insulation resistance	
Material	Polycarbonate with Zinc Alloy shielding element	Temperature range	-40°C to +125°C
Mating Cycles	500	Flammability rating	UL94V-0

450134

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
<b>D Sub Male</b>				
09 14 009 3001	124-3942			
<b>D Sub Female</b>				
09 14 009 3101	124-3943			
<b>Crimp Contacts</b>				
Male 18-22 AWG	09 67 000 3576	208-4550		
Male 20-24 AWG	09 67 000 8576	208-4551		
Male 22-26 AWG	09 67 000 5576	208-4552		
Female 18-22 AWG	09 67 000 3476	208-4553		
Female 20-24 AWG	09 67 000 8476	208-4554		
Female 22-26 AWG	09 67 000 5476	208-4555		
<b>Accessories</b>				
Crimp Tool 18-22 AWG	99 90 000 501	208-4558		
Locator for Crimp Tool	99 90 000 531	208-4556		

### HAN Pneumatic Module



- 2 or 3 contacts to transmit dry clean compressed air
- Termination of 1.6mm; 3mm; 4mm and 6mm inner diameter tubes
- Different tube dimensions can be combined in one module
- Socket contacts with/without shut-off valve
- Sturdy plastic contacts
- Extraction of pre-assembled pneumatic contacts possible
- Shut-off valve: when disconnected, a spring mechanism closes the pneumatic contact
- Male and female inserts are identical



Standards	DIN VDE 0627, DIN VDE 0110	Approvals	CSA UL Recognised
Inserts		Colour	Black
No. of ways	3	Tube termination	
Colour	Blue	Inner diameter ID	1.6mm; 3.0mm; 4.0mm and 6.0mm
Material	Polycarbonate	Pressure rating	Max. 8 bar
Flammability	UL94V-0	Material	Polycarbonate
Temperature range	-40°C to +80°C	Material	Delrin Acetal
Material	Polycarbonate		

227335

Mfrs. List No.	Insert	Order Code	Price Each		
			1+	5+	10+
0914 003 4501	for 1.6, 3.0, 4.0mm	728-159			
09 14 002 4501	for 6.0mm	345-4046			
<b>Pin Contact</b>					
09 14 000 6152	3.0mm	728-275			
0914 000 6153	4.0mm	728-287			
09 14 000 6174	6.0mm	345-4058			

# Heavy Duty Connectors - Harting - continued

## HAN Pneumatic Module - continued

Mfrs. List No	Insert	Order Code	1+	5+	10+	Price Each
<b>Socket Contact</b>						
09 14 000 6253	4.0mm	728-317				
<b>Socket Contact with Shut-off Valve</b>						
09 14 000 6257	3.0mm	728-330				
09 14 000 6258	4.0mm	728-342				
09 14 000 6279	6.0mm	345-4071				

## Modular IP65 Hoods

### Han-Modular® Series



**NEW**



Pushing Performance

This new series of hoods/housings are made of thermoplastic material with excellent mechanical properties and high resistance against environmental influence, they are weight and cost optimised

09 14 001 0421 Hood      09 14 001 0321 Hud

- Weight reduction combined with mechanical strength
- Fast assembly process without tools
- Highly resistant to environmental stress, suitable for use in outdoor applications
- Protection rating IP65

659027

Mfrs. List No.	Order Code	1+	5+	10+	50+	100+	Price Each
09 14 001 0421	189-2275						
09 14 001 0321	189-2276						

## Han GND®



The Han® GND (Han® Ground) series now enables pluggable grounding systems and is an innovative solution for potential equalisation.



Pushing Performance

**NEW**

- Quick error free commissioning
- Robust IP65 plastic housings
- Axial screw contacts enables a quick, easy, reliable connection
- Additional mating security provided by using the unlocking protection clip
- Operating temperature = -40°C to +125°C
- Mating cycle = ≥500

Description	Exit Angle	Body Material	Mfrs.	
			List No.	Order Code
Hood	Top	Polycarbonate	09 14 001 0430	210-0038
Unlocking Protection	—	Plastic	09 14 000 9938	210-0039
Housing	180°	Polycarbonate	09 14 001 0330	210-0040
Hood	180°	Polycarbonate	09 14 001 0730	210-0041
Gender changer	—	Plastic	09 14 001 9901	210-0042
<b>Modules</b>	<b>Gender</b>	<b>No of Ways</b>		
Male	Pin	1	09 14 001 3032	210-0043
Female	Socket	1	09 14 001 3132	210-0044
<b>Axial Screw Contacts</b>	<b>Gender</b>	<b>Contact Termination</b>		
10-25mm <sup>2</sup>	Pin	Screw	09 11 000 6112	210-0045
10-25mm <sup>2</sup>	Socket	Screw	09 11 000 6212	210-0047
16-35mm <sup>2</sup>	Pin	Screw	09 11 000 6113	210-0048
16-35mm <sup>2</sup>	Socket	Screw	09 11 000 6213	210-0049
<b>Accessories</b>				
Hex Key with grip			09 99 000 0363	210-0050
Hex Bit 3/8"			09 99 000 0370	210-0051

659755

Description	Mfrs. List No.	Order Code	1+	10+	25+	50+	Price Each
Hood	09 14 001 0430	210-0038					
Unlock protection	09 14 000 9938	210-0039					
Housing	09 14 001 0330	210-0040					
Hood	09 14 001 0730	210-0041					
Gender Changer	09 14 001 9901	210-0042					
<b>Modules</b>			1+	5+	10+		
Male	09 14 001 3032	210-0043					
Female	09 14 001 3132	210-0044					
<b>Axial Screw Contacts</b>							
10-25mm <sup>2</sup>	09 11 000 6112	210-0045					
10-25mm <sup>2</sup>	09 11 000 6212	210-0047					
16-35mm <sup>2</sup>	09 11 000 6113	210-0048					
16-35mm <sup>2</sup>	09 11 000 6213	210-0049					
<b>Accessories</b>			1+	5+			
Hex Key + Grip	09 99 000 0363	210-0050					
Hex Bit 3/8"	09 99 000 0370	210-0051					

## HAN-Yellock®



- New modules multiply the potentials with the connector
- Can incorporate up to 30 x 20A connections within one connector
- Original Han-Modular® modules may also be used
- PE is connected to the housing
- IP67 - effective in harsh environments
- Less article numbers and less inventory
- No assembly tools required, reduced material & wiring costs



Pushing Performance

**NEW**

## Hoods and Housings



184-5128



184-5121



184-5122

- Two part hoods for easy wiring & testing
- High robustness due to internal locking mechanism
- Quick Lock termination for Earthed contacts (PE)
- Operating Temp = -40°C to +125°C
- IP67

Cable Entry	Mfrs. List No.	Order Code	1+	10+	50+	100+	Price Each
<b>Hoods, Top Entry</b>							
M20	11 12 300 1400	184-5125					
M25	11 12 300 1401	184-5126					
M32	11 12 300 1402	184-5127					
<b>Hoods, Side Entry</b>							
M20	11 12 300 1500	184-5128					
M25	11 12 300 1501	184-5129					
M32	11 12 300 1502	184-5130					
<b>Carrier Hoods</b>							
Plain Push Button	11 12 300 0100	184-5120					
Slot Push Button	11 12 300 0110	184-5121					
<b>Housing, Bulkhead Mount</b>							
Without panel fasteners	11 12 300 0301	184-5122					
With panel fasteners	11 12 300 0302	184-5124					

## Male Module



- Snap-in assembly from mating or termination side
- Male contacts only
- Bus bar with bridge attachments
- Fast toolless assembly
- Electrical data - 20A, 500V, 6kV

No. of Contacts	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+	Price Each
5	11 05 105 3001	184-5119						

## Multiplier Modules



- Visible bridge position from mating and termination side
- Multiplier can be placed on housing or cable side
- Bus bar functionality for 1 up to 5 contacts
- Fast & easy exchange
- Electrical data - 20A, 500V, 6kV

Multiplier	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+	Price Each
1:1	11 05 105 2801	184-5114						
2:3	11 05 105 2802	184-5115						
3:2	11 05 105 2803	184-5116						
4:1	11 05 105 2804	184-5117						
5:0	11 05 105 2805	184-5118						

## Accessories



Contacts



Adaptor Frame



Codding Pins

Wire Gauge		Mfrs. List No.	Order Code	Price Per Pack (PK Qty = 100)		
(mm <sup>2</sup> )	(AWG)			1+	10+	50+
<b>Male Crimp Contacts</b>						
0.14-0.37	22-26	11 05 000 6101	184-5104			
0.5	20	11 05 000 6102	184-5105			
0.75	18	11 05 000 6103	184-5106			
1	18	11 05 000 6104	184-5107			
1.5	16	11 05 000 6105	184-5108			
2.5	14	11 05 000 6106	184-5109			
3	12	11 05 000 6107	184-5110			
4	12	11 05 000 6108	184-5112			

PE Quick-Lock Contact			Price Each				
Description	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
PE Contact	11 05 001 2601	184-5113					

			Price Each			
Description	Mfrs. List No.	Order Code	1+	10+	50+	100+

Adaptor Frames			
For Hoods	11 00 300 0101	184-5102	
For Housings	11 00 300 0301	184-5103	

Coding Pins - Set of 8			
	11 00 000 9501	184-5099	1+ 10+ 50+ 100+

Identification Stickers (Packs of 10)			
	11 00 000 9601	184-5101	1+ 10+ 50+ 100+

**Tooling** 618788

				Price Each	
Description	Mfrs. List No.	Order Code	1+	5+	
Removal Tool for Modules / Frames	11 99 000 0001	184-5131			
Panel Punch	11 99 300 0001	184-5132			
Buchanan Crimp Tool	09 99 000 0001	184-5133			
Locator for Buchanan Crimp Tool	09 99 000 0342	184-5134			

**Han-Eco® Series**



**NEW**



Pushing Performance

- Hoods and housings available in sizes 6B, 10B, 16B and 24B including integrated cable glands
- Polyethylene contact module to hold the protective ground conductor
- Quick assembly without screws and tools
- Fibre-glass reinforced polyamide hood and housing material
- Operating temperature: -40°C to +125°C

- Highly resistant to environmental stress, suitable for use in outdoor applications
- Flame retardant case, **UL94-V0**
- Provides **IP65** protection as per **DIN EN 60529**

Mfrs. List No.	Size	Cable Entry	Thread	Type	Order Code
<b>Hood With Integrated Cable Gland</b>					
19 41 106 0422	6B	Top	M32	2 levers	189-2239
19 41 106 0522	6B	Side	M32	2 levers	189-2240
19 41 110 0422	10B	Top	M32	2 levers	189-2245
19 41 110 0522	10B	Side	M32	2 levers	189-2246
19 41 116 0423	16B	Top	M40	2 levers	189-2250
19 41 116 0523	16B	Side	M40	2 levers	189-2251
19 41 124 0423	24B	Top	M40	2 levers	189-2256
19 41 124 0523	24B	Side	M40	2 levers	189-2257
<b>Hood Without Integrated Cable Gland</b>					
19 41 006 0422	6B	Top	M32	2 levers	189-2237
19 41 006 0522	6B	Side	M32	2 levers	189-2238
19 41 010 0422	10B	Top	M32	2 levers	189-2243
19 41 010 0522	10B	Side	M32	2 levers	189-2244
19 41 016 0423	16B	Top	M40	2 levers	189-2248
19 41 016 0523	16B	Side	M40	2 levers	189-2249
19 41 024 0423	24B	Top	M40	2 levers	189-2254
19 41 024 0523	24B	Side	M40	2 levers	189-2255
<b>Housing Bulkhead Mounting</b>					
19 41 006 0301	6B	-	-	2 levers	189-2236
19 41 010 0301	10B	-	-	2 levers	189-2242
19 41 016 0301	16B	-	-	2 levers	189-2247
19 41 024 0301	24B	-	-	2 levers	189-2252

Mfrs. List No.	Gender	Wire Size (mm <sup>2</sup> )	Material	Order Code
<b>Contact module</b>				
19 41 001 2600	Pin	1.5-16	Polyethylene	189-2233
19 41 001 2700	Socket	1.5-16	Polyethylene	189-2234
<b>Contact module - Removal tool</b>				
09 99 000 0331	-	-	-	189-2235

			Price Each			
Size	Mfrs. List No.	Order Code	1+	5+	10+	50+

Hood With Integrated Cable Gland			
6B	19 41 106 0422	189-2239	
6B	19 41 106 0522	189-2240	
10B	19 41 110 0422	189-2245	
10B	19 41 110 0522	189-2246	
16B	19 41 116 0423	189-2250	
16B	19 41 116 0523	189-2251	
24B	19 41 124 0423	189-2256	
24B	19 41 124 0523	189-2257	

Mfrs.		Order Code	Price Each			
Size	List No.		1+	5+	10+	50+
<b>Hood Without Integrated Cable Gland</b>						
6B	19 41 006 0422	189-2237				
6B	19 41 006 0522	189-2238				
10B	19 41 010 0422	189-2243				
10B	19 41 010 0522	189-2244				
16B	19 41 016 0423	189-2248				
16B	19 41 016 0523	189-2249				
24B	19 41 024 0423	189-2254				
24B	19 41 024 0523	189-2255				

Housing Bulkhead Mounting			
6B	19 41 006 0301	189-2236	
10B	19 41 010 0301	189-2242	
16B	19 41 016 0301	189-2247	
24B	19 41 024 0301	189-2252	

Wire Size		Mfrs. List No.	Order Code	Price Each				
(mm <sup>2</sup> )				1+	5+	10+	50+	100+

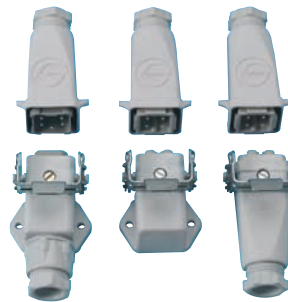
Contact module			
1.5-16	19 41 001 2600	189-2233	
1.5-16	19 41 001 2700	189-2234	

Contact module - Removal tool			
-	09 99 000 0331	189-2235	

**Heavy Duty Connectors - Epic**

**HA3/HA4 Complete Kits**  
Plastic Housing with PG Threaded Gland

EPIC®



- Hood and base kits with inserts and PG glands
- No extra parts need to be ordered
- Panel base, surface base and coupler supplied with socket insert
- Hoods supplied with plug insert
- According to **VDE0110/89**

Current rating	10A
Voltage rating	400V
Termination	Screw 0.5 to 2.5mm <sup>2</sup>
Contact resistance	2mΩ
Temperature range	-40°C to +125°C
Protection Class	IP65

230422/406603

No. of Ways Type	Order Code	Price Each
<b>Complete Kit 1</b>		
3 Panel mount base + Straight hood - PG11	990-4140	
<b>Complete Kit 2</b>		
3 Panel mount base 90° + Straight hood - PG11	990-4174	
4 Panel mount base 90° + Straight hood - PG11	990-4182	
<b>Complete Kit 3</b>		
4 Surface mount base + Straight hood - PG11	990-4204	
<b>Complete Kit 4</b>		
3 Straight hood + Straight coupler hood - PG11	990-4212	
4 Straight hood + Straight coupler hood - PG11	990-4220	

**HA3/HA4 Complete Kits**  
Plastic Housing with Metric Threaded Gland

EPIC®



- Hood and base kits with inserts and Metric glands
- No extra parts need to be ordered
- Panel base, surface base and coupler supplied with socket insert
- Hoods supplied with plug insert
- According to **VDE0110/89**

# Heavy Duty Connectors - Epic - continued

## HA3/HA4 Complete Kits - continued

### Plastic Housing with Metric Threaded Gland - continued

Current rating	10A	Contact resistance	2mΩ
Voltage rating	400V	Temperature range	-40°C to +125°C
Termination	Screw 0.5 to 2.5mm <sup>2</sup>	Protection Class	IP65

386173/406602

No. of Ways	Type	Order Code	1+	10+	50+
<b>Complete kit 1</b>					
3	Panel mount socket 90° + straight plug - M20	167-0893			
<b>Complete Kit 2</b>					
4	Surface mount socket + straight plug- M20	860-2565			
<b>Complete Kit 3</b>					
3	Straight plug + straight coupler- M20	860-2573			
4	Straight plug + straight coupler- M20	860-2581			

## HA3/HA4 Complete Kits

### Metal Housing with PG Threaded Gland



- HA3 and HA4 complete kits
- No extra parts need to be ordered
- The kit consists of all necessary parts to obtain a complete connection: Plug and Socket inclusive all inserts and housing
- According to VDE0110/89

Current rating	10A	Contact resistance	2mΩ
Voltage rating	400V	Temperature range	-40°C to +125°C
Termination	Screw 0.5 to 2.5mm <sup>2</sup>	Protection Class	IP65

230424/406606

No. of Ways	Type	Order Code	1+
<b>Complete Kit 1</b>			
3	Panel mount socket + straight plug - PG11	990-4239	
4	Panel mount socket + straight plug - PG11	990-4247	
4	Panel mount socket + plug right angle - PG11	990-4255	
<b>Complete Kit 2</b>			
3	Panel mount socket 90° + straight plug - PG11	990-4263	
3	Panel mount socket 90° + plug right angle - PG11	990-4271	
4	Panel mount socket 90° + straight plug - PG11	119-6573	
<b>Complete Kit 3</b>			
3	Surface mount socket + straight plug - PG11	990-4280	
4	Surface mount socket + straight plug - PG11	990-4301	
<b>Complete Kit 4</b>			
3	Straight plug + Straight coupler - PG11	990-4310	
4	Straight plug + Straight coupler - PG11	990-4328	

## HA3/HA4 Complete Kits

### Metal Housing with Metric Threaded Gland



- HA3 and HA4 complete kits
- No extra parts need to be ordered
- The kit consists of all necessary parts to obtain a complete connection: Plug and Socket inclusive all inserts and housing
- According to VDE0110/89

Current rating	10A
Voltage rating	400V
Termination	Screw 0.5 to 2.5mm <sup>2</sup>
Contact resistance	2mΩ
Temperature range	-40°C to +125°C
Protection Class	IP65

386155/406608

No. of Ways	Type	Order Code	1+
<b>Complete Kit 1</b>			
4	Panel mount socket + straight plug- M20	860-2450	
<b>Complete Kit 2</b>			
3	Panel mount socket 90° + straight plug- M20	860-2441	
4	Panel mount socket 90° + straight plug- M20	860-2468	

No. of Ways	Type	Order Code	1+
<b>Complete Kit 3</b>			
3	Surface mount socket + straight plug- M20	860-2476	
4	Surface mount socket + straight plug- M20	860-2484	
<b>Complete Kit 4</b>			
3	Straight plug + Straight coupler- M20	860-2492	
4	Straight plug + Straight coupler- M20	860-2506	

## HA3/HA4 Hood and Base Kits

EPIC®



- HA3 and HA4 type connectors
- Metal or plastic housings
- Designed to meet VDE 0110/89 requirements

Current rating	10A
Voltage rating	400V AC
Termination	Screw
Contact resistance	4mΩ
Temperature range	-40°C to 125°C

234448/406610

Plastic Housings	Order Code	1+	10+	50+
<b>Hood with Male Inserts</b>				
3 way side entry - PG11	167-0894			
3 way top entry - PG11	990-3038			
4 way top entry - PG11	990-3046			
<b>Panel Base with Female Inserts</b>				
3 Way	990-3054			
4 way	990-3070			
<b>Coupler Hoods with Female Inserts</b>				
3 way metal - PG11	167-0896			
4 way metal - PG11	167-0897			
<b>Metal Housings</b>				
<b>Hood with Male Inserts</b>				
3 way side entry - PG11	990-3089			
3 way top entry - PG11	990-3097			
4 way side entry - PG11	990-3119			
4 way top entry - PG11	990-3127			
<b>Coupler Hoods with Female Inserts</b>				
3 way metal - PG11	990-3976			
4 way metal - PG11	990-3984			
<b>Panel Base Female Inserts</b>				
3 way straight	990-3100			
4 way straight	990-3143			
4 way R/A	990-3135			
<b>Panel Base R/A with Female Inserts</b>				
3 Way	167-0901			

## HA3/HA4 Inserts Hoods and Bases

### PG and Metric Threads

EPIC®



Inserts - Male & Female

Hoods - Top & Side Entry

Coupler Hood

- HA3 and HA4 type connectors
- Metal or plastic housings
- Designed to meet VDE 0110/89 requirements

Current rating	10A	Contact resistance	4mΩ
Voltage rating	400V AC	Temperature range	-40°C to 125°C
Termination	Screw		

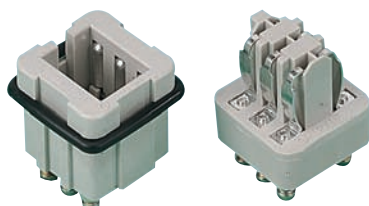
Mfrs. List No.	10431000 =	167-0903	10.4264 =	990-6215	10.4235 =	990-6193
10.4210 =	990-6274	10.4275 =	990-6169	10.4295 =	990-6177	10.4245 =
10.4200 =	990-6266	10.4265 =	990-6150	10.4225 =	990-6185	10.4310
10.4320 =	990-6304	19426500 =	990-4727	10.4220 =	990-6231	

248186



No. of Ways	Size	Order Code	1+	2+	5+
<b>Inserts</b>					
3, female	HA3	990-6274			
3, male	HA3	990-6266			
4, female	HA4	990-6304			
4, Male	HA4	167-0903			
<b>Hoods</b>					
<b>Hood - Side Entry</b>					
Metal - PG11		990-6169			
<b>Hood - Top Entry</b>					
Metal - PG11		990-6150			
Metal - M20		990-4727			
Metal - PG11		990-6215			
<b>Cable Coupler Hood - Top Entry</b>					
Metal - PG11		990-6177			
<b>Bases</b>					
<b>Panel Mount Base</b>					
Metal		990-6185			
Plastic		990-6231			
<b>Panel Mount Base - Right Angle</b>					
Metal		990-6193			
<b>Surface Mount Base - Right Angle</b>					
Metal HA3/4 PG11		990-6207			

**EPIC STA Series Inserts**



- 6-20 way inserts
- Screw terminations
- Suitable housing HA3 series

Current Rating 10A  
Voltage Rating 48V  
Insulator PBT (Polybutylene terephthalate)

Contacts Copper Alloy, Silver plated  
Cable diameter 0.5 - 1.5mm<sup>2</sup>  
Operating Temperature -40°C to 80°C

230225

Mfrs. List No.	Type	No. of Ways	Order Code	1+	2+	5+	10+
10.4881	Male	6	990-6312				
10.4861	Female	6	990-6320				
10493100	Male	14	167-0912				
10491100	Female	14	167-0910				
10503100	Male	20	167-0913				
10501100	Female	20	167-0911				

**H-Q5 Complete Kit**

Socket and Base Kit with Metric Threaded Gland



- Kit includes a panel mount base, top entry hood, socket insert with crimps and plug insert with crimps
- Plug and socket inserts each have five working contacts plus one additional earth contact
- M20 threaded gland

Temperature range -40°C to +125°C  
Protection Class IP65  
Mating Cycles 100  
Contact Resistance 2mΩ

Termination Crimp 0.5 to 2.5mm<sup>2</sup>  
Current Rating 16A  
Voltage Rating 600V  
Number of Ways 5 + PE

386302/406616

	Order Code	1+	10+	50+
H-Q5 Complete Kit	860-2999			

**HA Hood and Base Kits**

PG Threads



- HA hood base and cable coupler kits
  - 10-32 ways
  - Screw termination
  - PG clamp
- Current rating 16A  
Test Voltage 2kV  
Termination Screw 0.5 to 2.5mm<sup>2</sup>
- Temperature range -40°C to +125°C  
Protection Class IP65
- 248193/406613

No. of Ways	Type	Order Code	1+	10+	50+
<b>Hoods with Male Inserts</b>					
10	Top Entry - PG16	990-3151			
10	Side Entry - PG16	990-3160			
16	Side Entry - PG21	990-3194			
32	Top Entry - PG29	167-0898			
<b>Hoods with Female Inserts</b>					
10	Top Entry - PG16	167-0899			
16	Top Entry - PG21	167-0900			
<b>Panel Mount Base Female Insert</b>					
10		990-3178			
16		990-3208			
32		990-4018			
<b>Surface Mount Base Female Insert</b>					
10	PG16	990-3992			
16	PG21	990-4000			
32	PG29	167-0902			

**HA Inserts, Hoods and Bases**



- PG and Metric Threads
  - HA single parts
  - 10-48 ways
  - Screw termination
  - PG Clamp
- Termination 0.5 to 2.5mm<sup>2</sup>  
Temperature range -40°C to +125°C
- Protection Class IP65
- 234504

Size	No. of Ways	Order Code	1+	10+	50+
<b>Hood, Side Entry</b>					
HA10 - PG16	10	990-4042			
HA16 - PG21	16	990-4050			
HA32 - PG29	32	167-0909			
<b>Hood, Top Entry</b>					
HA16 - PG21	16	167-0907			
HA32 - PG29	32	167-0908			
<b>Panel Mount Base</b>					
HA10	10	990-4077			
HA16	16	990-4085			
<b>Insert, Male</b>					
HA10	10	990-4093			
HA16	16	990-4107			
HA32	32	167-0904			
<b>Insert, Female</b>					
HA10	10	990-4115			
HA16	16	990-4123			
HA32	32	167-0905			

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[farnell.com/ibuy](http://farnell.com/ibuy)

# Heavy Duty Connectors - Epic - continued

## HBE Complete Kits

Socket and Base Kits with PG Threaded Glands

EPIC®



- Rugged industrial connectors manufactured to VDE0110/89
- Approved to **CSA, SEV. UL** Recognised
- Inserts polarised for correct mating
- Kits comprise, hood, plug insert, M gland, base, socket insert
- All parts to make a full connection are supplied
- 6-24 way, screw termination
- 6 way is single latch

Temperature range -40°C to +125°C  
 Protection Class IP65  
 Contact Resistance 2mΩ  
 Mating Cycles 100  
 Wire Size 0.5 to 2.5mm<sup>2</sup>  
 Current Rating 16A at 400V

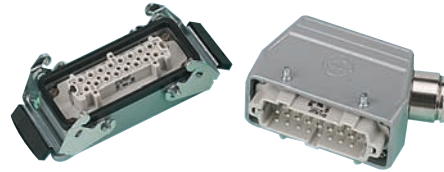
230435/406599

Ways, No. of Type	Order Code	Price Each 1+
<b>HBE 6 Base + Socket Insert, Hood + Plug Insert</b>		
6 Panel Base + Straight Hood PG13.5	990-4336	
6 Panel Base + Straight Hood PG16	990-4344	
6 Panel Base + Side Entry Hood PG13.5	990-4352	
6 Panel Base + Side Entry Hood PG16	990-4360	
<b>HBE 10 Base + Socket Insert, Hood + Plug Insert</b>		
10 Panel Base + Straight Hood PG16	990-4379	
10 Panel Base + Side Entry Hood PG16	990-4395	
<b>HBE 16 Base + Socket Insert, Hood + Plug Insert</b>		
16 Panel Base + Straight Hood PG21	990-4417	
16 Panel Base + Straight Hood PG29	990-4425	
16 Panel Base + Side Entry Hood PG21	990-4433	
16 Panel Base + Side Entry Hood PG29	990-4441	
<b>HBE 24 Base + Socket Insert, Hood + Plug Insert</b>		
24 Panel Base + Straight Hood PG21	990-4450	
24 Panel Base + Side Entry Hood PG21	990-4476	
24 Panel Base + Side Entry Hood PG29	990-4484	

## HBE Hood and Base Kits (Half Kits)

Half Kits with PG Threaded Glands

EPIC®



- HBE hood kits complete with plug insert and cable gland
- HBE base kit complete with socket insert

Temperature range -40°C to +125°C  
 Protection Class IP65  
 Mating Cycles 100  
 Contact Resistance 2mΩ

- Supplied with EPIC SM PG clamp
- 6 way is single latch

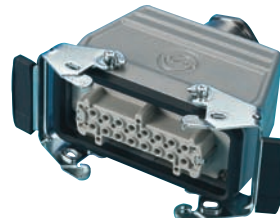
Wire Size 0.5 to 2.5mm<sup>2</sup>  
 Current Rating 16A  
 Voltage Rating 400V

230438/406601

Type	Order Code	1+	2+	5+
<b>Price Each</b>				
<b>Number of Ways</b>				
<b>Surface Mount Base Kit - With socket insert and cable gland</b>				
6 PG13.5	990-6070			
10 PG16	990-6088			
16 PG21	990-6096			
24 PG21	990-6100			
<b>Panel Mount Base Kit - With socket insert</b>				
6	990-6118			
10	990-6126			
16	990-6134			
24	990-6142			
32	990-3291			
48 with cover	990-3313			

## HBE Coupler Kits

EPIC®



- Cable to cable coupler kits with socket inserts and cable gland
- Use with top entry hood and plug insert for cable to cable connection
- Screw termination
- PG clamp
- 6-24 Way

Wire Size 0.5 to 2.5mm<sup>2</sup>  
 Contact Resistance 2mΩ  
 Mating Cycles 100  
 Temperature range -40°C to +125°C  
 Current Rating 16A  
 Protection Class IP65

230434/406604

No. of Ways	Order Code	1+	10+	50+
<b>Price Each</b>				
<b>Cable Coupler Kit</b>				
6 - PG13.5	990-3240			
10 - PG16	990-3259			
16 - PG16	990-3267			
24 - PG21	990-3275			

## HBE Complete Kits

Socket and Base Kits with Metric Threaded Glands

EPIC®



- Rugged industrial connectors manufactured to VDE0110/89
- Approved to **CSA, SEV. UL** Recognised
- Inserts polarised for correct mating
- Kits comprise, hood, plug insert, PG gland, base, socket insert
- All parts to make a full connection are supplied
- 6-24 way
- 6 way is single latch

Temperature range -40°C to +125°C  
 Protection Class IP IP65  
 Contact Resistance 2mΩ  
 Mating Cycles 100  
 Wire Size 0.5 to 2.5mm<sup>2</sup>  
 Current Rating 16A at 400V

386116/406600

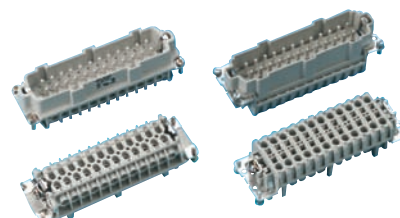
Ways, No. of Type	Order Code	Price Each 1+
<b>HBE 6 Base + Socket Insert, Hood + Plug Insert</b>		
6 Panel Base + Side Entry Hood M20	860-2360	
<b>HBE 10 Base + Socket Insert, Hood + Plug Insert</b>		
10 Panel Base + Straight Hood M20	860-2379	
10 Panel Base + Side Entry Hood M20	860-2387	
<b>HBE 16 Base + Socket Insert, Hood + Plug Insert</b>		
16 Panel Base + Straight Hood M25	860-2395	
16 Panel Base + Side Entry Hood M25	860-2409	
<b>HBE 24 Base + Socket Insert, Hood + Plug Insert</b>		
24 Panel Base + Side Entry Hood M25	860-2425	

### TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at [farnell.com](https://www.farnell.com)

## HBE Inserts

EPIC®



- HBE inserts
- 6-32 ways
- Screw termination

Current rating	16A	Test Voltage	6KV
Voltage working	400V	Termination	Screw 0.5 to 2.5mm <sup>2</sup>
Degree of Pollution	3	Temperature range	-40°C to +125°C
Mfrs. List No.		Mfrs. List No.	
10.1900 = 990-3623		10.1960 = 990-3658	
10.1920 = 990-3631		10.1910 = 990-3674	
10.1940 = 990-3640		10.1930 = 990-3682	

230427

Size	No. of Ways	Order Code	1+	10+	50+
<b>Plug Insert, Screw Termination</b>					
HB6	6	990-3623			
HB10	10	990-3631			
HB16	16	990-3640			
HB24	24	990-3658			
<b>Socket Insert, Screw Termination</b>					
HB6	6	990-3674			
HB10	10	990-3682			
HB16	16	990-3690			
HB24	24	990-3704			
HB32	32	167-0926			

## Crimp Contacts HD/HDD

EPIC®



Precision Tooling



Commercial Tooling

- Tooling suitable for HD, HDD and H-Q5 crimp contacts
- Crimp contacts suitable for HD and HDD inserts

386268

Pack = 10 pieces	Order Code	1+	10+	50+
<b>Crimp Contacts</b>				
<b>Pin</b>				
0.14 - 0.37	990-3801			
0.5	990-3810			
0.75 - 1	990-3828			
1.5	990-3836			
2.5	990-3844			
<b>Socket</b>				
0.14 - 0.37	990-3852			
0.5	990-3860			
0.75 - 1	990-3879			
1.5	990-3887			
2.5	990-3895			
<b>Order Multiple = 1</b>				
<b>Precision Tooling</b>				
Crimp Tool	633-800			
Crimp Locator	333-3851			
Crimp Removal Tool	333-3980			

## HBE Hoods

PG and Metric Threads

EPIC®



Top Entry Hood

Side Entry Hood

High Construction Hood  
- Top EntryHigh Construction Hood  
- Side Entry

- Supplied with EPIC SM glands
- Hoods come with zinc plated steel locking levers
- Single and double lever hoods available
- Body Material - Aluminium Alloy, powder coated
- Operating Temperature - -40°C to +125°C
- IP65

248195

Size	Latch	Mfrs. List No.	Order Code	1+	10+	50+
<b>Hood, Side Entry</b>						
HB6 PG13.5	Single	10.0120+12.9543	990-3380			
HB6 M20	Single	19012000+71200200	990-4751			
HB10 PG16	Double	10.0420+12.9544	990-3399			
HB10 M20	Double	19042000+71200200	990-4760			
HB16 PG21	Double	10.0820+12.9545	990-3402			

Size	Latch	Mfrs. List No.	Order Code	1+	10+	50+
<b>Hood, Side Entry</b>						
HB16 M25	Double	19082000+71200300	990-4778			
HB24 PG21	Double	10.1130+12.9545	990-3410			
HB24 M25	Double	19113000+71200300	990-4786			
HB32 PG29	Double	10136000+12954600	167-0866			
HB48 PG36	Single	10159000+12954700	167-0868			
<b>Hood, Top Entry</b>						
HB6 PG13	Single	10011000+12954300	167-0855			
HB6 M20	Single	19011000+71200200	167-0856			
HB10 PG16	Double	10.0400+12.9544	990-3437			
HB16 PG21	Double	10080000+12954500	167-0860			
HB24 PG21	Double	10121000+12954500	167-0863			
HB32 PG29	Double	10134000+12954600	167-0865			
HB48 PG36	Single	10156000+12954700	167-0867			
<b>High Construction Hood, Side Entry</b>						
HB6 M25	Single	79022200+71201300	411-5170			
HB10 M25	Double	79052400+71201300	167-0859			
<b>High Construction Hood, Top Entry</b>						
HB6 PG21	Single	70020200+12954500	167-0857			
HB10 PG21	Double	70050400+12954500	167-0858			
HB16 PG29	Double	70100400+12954600	167-0861			
HB24 PG29	Double	70.1506+12.9546	990-3488			

## HBE Bases

PG and Metric Thread

EPIC®



Panel Mount

Surface Mount

- HBE panel and surface mount bases
- Surface mount bases available with single and double cable entry
- Surface mount bases are supplied with EPIC SM glands
- Bases come with zinc plated steel locking levers
- Single and double lever bases available
- Body Material - Aluminium Alloy, powder coated
- Operating Temperature - -40°C to +125°C
- IP65

248198

Size	Levers	Entry	Mfrs. List No.	Order Code	1+	10+	50+
<b>Surface Mount Bases</b>							
HB6 PG16	Single	Single	10005000+12954400	167-0869			
HB6 PG16	Single	Double	10006000+12954400	167-0870			
HB6 M20	Single	Single	19005000+71200200	990-4808			
HB6 M20	Single	Double	19006000+71200200	167-0871			
HB10 P16	Double	Single	10034000+12954400	167-0874			
HB10 PG16	Double	Double	10035000+12954400	167-0875			
HB10 M20	Double	Single	19034000+71200200	167-0877			
HB10 M20	Double	Double	19035000+71200200	167-0878			
HB16 PG21	Double	Single	10.0740+12.9545	990-3518			
HB16 PG21	Double	Double	10075000+12954500	167-0881			
HB16 M25	Double	Single	19074000+71200300	167-0882			
HB16 M25	Double	Double	19075000+71200300	167-0883			
HB24 PG21	Double	Single	10.1040+12.9545	990-3526			
HB24 PG21	Double	Double	10105000+12954500	167-0885			
HB24 M25	Double	Double	19105000+71200300	167-0886			
HB48 PG36	Single	Single	10165100+12954700	167-0891			
<b>Surface Mount Base, High Construction</b>							
HB6 PG21	Single	Single	70005200+12954500	167-0872			
HB6 PG21	Single	Double	70006200+12954500	167-0873			
HB10 PG21	Double	Single	70035200+12954500	167-0879			
HB10 PG21	Double	Double	70036200+12954500	167-0880			
HB16 PG21	Double	Double	70086400+12954600	167-0884			
HB24 PG29	Double	Single	70.1354+12.9546	990-3569			
<b>Panel Mount Base</b>							
HB6	Single	N/A	10.0030	990-3577			
HB10	Double	N/A	10.0320	990-3585			
HB16	Double	N/A	10.0720	990-3593			
HB24	Double	N/A	10102000	167-0889			
HB32	Double	N/A	10.1320	990-3607			
HB48	Single	N/A	10161000	167-0892			

# Heavy Duty Connectors - Epic - continued

## Protective Covers and Coding Pins

EPIC®



- Protective cover fits panel mount bases, surface mount bases and cable connector hood

234445

Type	Order Code	Price Each		
		1+	10+	50+
<b>Protective Cap - Surface mount bases, panel mount bases, coupler hoods</b>				
6	990-3321			
10	990-3330			
16	990-3348			
24	990-3356			
<b>Protective Cover - Hoods with bolts</b>				
6	167-0927			
10	990-3364			
24	990-3372			
16	167-0928			
<b>Coding Pins</b>				
Polarizing with Key Pin	167-0929			
Guide Pin & Socket	167-0930			

## ULTRA Housings & Bases

IP65 & EMC Protected, Corrosion Resistant

NEW

EPIC®



These robust 360° screened housings are Zinc die cast Nickel plated, the lever and bolts are stainless steel supplied with an Elastomer weatherproof seal. Protection rating of IP 65 and operating temperature range of -40°C to +100°C.  
NOTE: this range of housings do not include the connector inserts.

- Low Resistance 360° screening
- High corrosion resistance
- Withstands high mechanical stress
- Fast couple / decouple function

651755

Type / Size	Entry	Latch	Mfrs.		Price Each		
			List No.	Order Code	1+	10+	25+
Hood HB6	Top	Single	70250202	207-4934			
Hood HB6	Side	Single	70250205	207-4935			
Base HB6	Panel MNT	Single	20250206	207-4936			
Base HB6	SMT	Single	20250209	207-4937			
Hood HB10	Side	Single	70250212	207-4938			
Hood HB10	Panel MNT	Single	70250213	207-4939			
Hood HB16	Side	Double	70250216	207-4940			
Base HB16	Panel MNT	Double	70250217	207-4942			
Hood HB24	Side	Double	70250221	207-4943			
Base HB24	Panel MNT	Double	70250222	207-4944			

## ULTRA Kits

Hoods / Bases with HBE Inserts

EPIC®

NEW



These robust 360° screened housings are Nickel plated, die cast Zinc, the lever and bolts are stainless steel supplied with an Elastomer weatherproof seal and connector inserts. Protection rating of IP 65 and operating temperature range of -40°C to +100°C.

- Low Resistance 360° screening
- High corrosion resistance
- Withstands high mechanical stress
- Fast couple / decouple function

651776

Entry	Contact Gender	Number of Pins	Mfrs.		Price Each		
			List No.	Order Code	1+	10+	25+
<b>Hoods with HBE Inserts</b>							
Top	Pin	6	70250202 + 10190000	207-4945			
Top	Socket	6	70250202 + 10191000	207-4946			
Side	Pin	6	70250205 + 10190000	207-4947			
Side	Socket	6	70250205 + 10191000	207-4948			
Side	Pin	10	70250212 + 10192000	207-4954			
Side	Socket	10	70250212 + 10193000	207-4955			
Side	Pin	16	70250216 + 10194000	207-4958			

Entry	Contact Gender	Number of Pins	Mfrs.		Order Code	Price Each		
			List No.			1+	10+	25+
<b>Hoods with HBE Inserts</b>								
Side	Socket	16	70250216 + 10195000	207-4959				
Side	Pin	24	70250221 + 10196000	207-4962				
Side	Socket	24	70250221 + 10197000	207-4963				
<b>Bases with HBE Inserts</b>								
Panel Mount	Pin	6	20250206 + 10190000	207-4949				
Panel Mount	Socket	6	20250206 + 10191000	207-4950				
Surface Mount	Pin	6	20250209 + 10190000	207-4951				
Surface Mount	Socket	6	20250209 + 10191000	207-4952				
Panel Mount	Pin	10	70250213 + 10192000	207-4956				
Panel Mount	Socket	10	70250213 + 10193000	207-4957				
Panel Mount	Pin	16	70250217 + 10194000	207-4960				
Panel Mount	Socket	16	70250217 + 10195000	207-4961				
Panel Mount	Pin	24	70250222 + 10196000	207-4964				
Panel Mount	Socket	24	70250222 + 10197000	207-4966				

# Heavy Duty Connectors - ILME

## Rectangular Multipole Connectors

NEW



Manufactured to EN 61984

To facilitate the correct selection of enclosure for the electrical insert required, the 'size' definition as well as the part number is indicated below.

663586

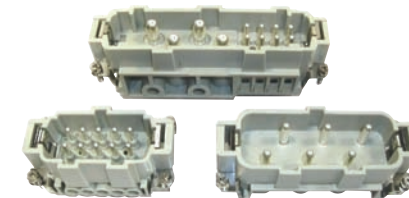


Enclosure Size	X-Y Insert Fixing Centres (mm)
32.13	32 x 13
49.16	49.5 x 16
66.16	66 x 16
66.40	66 x 16 (2 inserts)
44.27	44 x 27
57.27	57 x 27
77.27	77.5 x 27
104.27	104 x 27
77.62	77.5 x 27 (2 inserts)
104.62	104 x 27 (2 inserts)

## Screw Termination Connector Inserts



NEW



- Current Rating = 16A to 80A
- Self-extinguishing thermoplastic resin - UL94V-0
- EN 61984 / CE marked / UL / CSA / CCC approved
- Not for live connection or disconnection. AC / DC rated

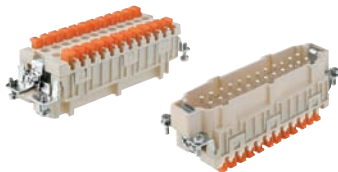
Wire Sizes:  
16A - 0.5-2.5mm<sup>2</sup>  
35A - 1.5-6mm<sup>2</sup>  
80A - 4-16mm<sup>2</sup> (16A auxiliary. 2 pole aux. 0.25-2.5mm<sup>2</sup>, 8 pole aux. 0.75-2.5mm<sup>2</sup>)

663590

Description	Enclosure Size	Mfrs.		Price Each			
		List No.	Order Code	1+	5+	10+	25+
<b>CNE Inserts, 16A, 500V</b>							
Male, 6P+E	44.27	CNEM06T	214-4562				
Female, 6P+E	44.27	CNEF06T	214-4563				
Male, 10P+E	57.27	CNEM10T	214-4564				
Female, 10P+E	57.27	CNEF10T	214-4565				
Male, 16P+E	77.27	CNEM16T	214-4567				
Female, 16P+E	77.27	CNEF16T	214-4568				
Male, 24P+E	104.27	CNEM24T	214-4569				
Female, 24P+E	104.27	CNEF24T	214-4570				
<b>CP Inserts, 35A, 415V L-N / 690V L-L</b>							
Male, 6P+E	77.27	CPM06	214-4571				
Female, 6P+E	77.27	CPF06	214-4572				
<b>CX Inserts, 80A, 415V (16A aux. 230V L-N / 400V L-L)</b>							
Male, 4P+E	77.27	CXM4/0	214-4573				
Female, 4P+E	77.27	CXF4/0	214-4574				
Male, 4P+E+2 aux.	77.27	CXM4/2	214-4575				
Female, 4P+E+2 aux.	77.27	CXF4/2	214-4576				
Male, 4P+E+8 aux.	104.27	CXM4/8	214-4577				
Female, 4P+E+8 aux.	104.27	CXF4/8	214-4579				

## Spring Termination Connector Inserts

with 'Squich' Actuator Button



**NEW**

- Current Rating = 16A
- Voltage Rating = 500V
- Self-extinguishing thermoplastic resin - **UL94V-0**
- **EN 61984 / CE marked / UL / CSA / CCC** approved
- Not for live connection or disconnection. AC / DC rated
- Wire Size: 0.14-2.5mm<sup>2</sup>

663592

Description	Enclosure Size	Mfrs. List No.	Order Code	Price Each			
				1+	10+	25+	50+
<b>CNE Inserts, 16A, 500V</b>							
Male, 6P+E	44.27	CSHM06	184-7991				
Female, 6P+E	44.27	CSHF06	184-7992				
Male, 10P+E	57.27	CSHM10	184-7993				
Female, 10P+E	57.27	CSHF10	184-7994				
Male, 16P+E	77.27	CSHM16	184-7996				
Female, 16P+E	77.27	CSHF16	184-7997				
Male, 24P+E	104.27	CSHM24	184-7998				
Female, 24P+E	104.27	CSHF24	184-7999				

## Robust Thermoplastic Enclosures



**NEW**



- Robust, non-electrostatic thermoplastic material
- **EN 61984 / CE marked / UL / CSA** approved
- IP65 rated, UL Type 12
- Operating Temperature = -40°C to +90°C
- Single lever system for size 44.27, all other sizes have a double lever system

663593

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
<b>Enclosure Size 44.27</b>						
Top Entry Hood, M25	TMAV06L25	184-8000				
Side Entry Hood, M25	TMAO06L25	184-8004				
Panel Mount Housing	TCHI06L	184-8009				
Surface Mount Housing, M25	TMAP06L25	184-8014				
Cover, with Pegs	TCHC06L	184-8018				
<b>Enclosure Size 57.27</b>						
Top Entry Hood, M225	TMAV10.25	184-8001				
Side Entry Hood, M25	TMAO10.25	184-8005				
Panel Mount Housing	TCHI10	184-8011				
Surface Mount Housing, M25	TMAP10.25	184-8015				
Cover, with Pegs	TCHC10	184-8019				
<b>Enclosure Size 77.27</b>						
Top Entry Hood, M32	TMAV16.32	184-8002				
Side Entry Hood, M32	TMAO16.32	184-8006				
Panel Mount Housing	TCHI16	184-8012				
Surface Mount Housing, M32	TMAP16.32	184-8016				
Cover, with Pegs	TCHC16	184-8020				
<b>Enclosure Size 104.27</b>						
Top Entry Hood, M32	TMAV24.32	184-8003				
Side Entry Hood, M32	TMAO24.32	184-8007				
Panel Mount Housing	TCHI24	184-8013				
Surface Mount Housing, M32	TMAP24.32	184-8017				
Cover, with Pegs	TCHC24	184-8022				
<b>Plastic Cable Glands, Grey, IP68</b>						
M20	ASM20I	184-8023				
M25	ASM25I	184-8024				
M32	ASM32I	184-8025				
<b>Reducers, Male to Female</b>						
M25 to M20	ASM25PR	184-8026				
M32 to M25	ASM32PR	184-8027				

## Rugged Metal Enclosures

1 Lever System

**NEW**



- Die-cast aluminium alloy with epoxy-polyester powder coating
- Stainless steel levers with thermoplastic reinforced glass fibre handle
- **EN 61984 / CE marked / UL / CSA** approved
- IP66 rated, UL Type 4/4X/12
- Operating Temperature = -40°C to +125°C

663596

Description	Mfrs. List No.	Order Code	Price Each			
			1+	5+	10+	25+
<b>Enclosure Size 44.27</b>						
Top Entry Hood, M20	MHV06L20	214-4581				
Top Entry Coupler, M25	MHV06LG25	214-4582				
Side Entry Hood, M20	MHO06L20	214-4583				
Panel Mount Housing	CHI06L	214-4584				
Panel Mount Housing, with Hinged Cover	CHI06LS	214-4585				
Surface Mount Housing, M20	MHP06L20	214-4586				
SMT Housing, with Hinged Cover, M20	MHP06LS20	214-4587				
Cover, with Pegs	CHC06L	214-4588				
Cover, with Lever	CHC06LG	214-4589				
<b>Enclosure Size 57.27</b>						
Top Entry Hood, M20	MHV10L20	214-4590				
Top Entry Coupler, M25	MHV10LG25	214-4592				
Side Entry Hood, M20	MHO10L20	214-4593				
Panel Mount Housing	CHI10L	214-4594				
Panel Mount Housing, with Hinged Cover	CHI10LS	214-4595				
Surface Mount Housing, M20	MHP10L20	214-4596				
SMT Housing, with Hinged Cover, M20	MHP10LS20	214-4597				
Cover, with Pegs	CHC10L	214-4598				
Cover, with Lever	CHC10LG	214-4599				
<b>Enclosure Size 77.27</b>						
Top Entry Hood, M25	MHV16L25	214-4600				
Top Entry Coupler, M32	MHV16LG32	214-4601				
Side Entry Hood, M25	MHO16L25	214-4602				
Panel Mount Housing	CHI16L	214-4603				
Panel Mount Housing, with Hinged Cover	CHI16LS	214-4604				
Surface Mount Housing, M25	MHP16L25	214-4605				
SMT Housing, with Hinged Cover, M25	MHP16LS25	214-4606				
Cover, with Pegs	CHC16L	214-4607				
Cover, with Lever	CHC16LG	214-4609				
<b>Enclosure Size 77.27</b>						
Top Entry Hood, M25	MHV24L25	214-4611				
Top Entry Hood, M32	MAV24L32	214-4612				
Top Entry Coupler, M32	MAV24LG32	214-4613				
Side Entry Hood, M25	MHO24L25	214-4614				
Side Entry Hood, M32	MAO24L32	214-4615				
Panel Mount Housing	CHI24L	214-4616				
Panel Mount Housing, with Hinged Cover	CHI24LS	214-4617				
Surface Mount Housing, M25	MHP24L25	214-4618				
SMT Housing, with Hinged Cover, M32	MAP24LS32	214-4619				
Cover, with Pegs	CHC24L	214-4620				
Cover, with Lever	CHC24LG	214-4622				

**INTELLIGENT ONLINE BUYING SYSTEM PROVIDING**

Complete cost control, reduced administration time, visibility of your spend, flexibility and personalised to your company's needs.

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# Heavy Duty Connectors - ILME - continued

## Rugged Metal Enclosures

### 2 Lever System



- Die-cast aluminium alloy with epoxy-polyester powder coating
- Stainless steel levers with thermoplastic reinforced glass fibre handle
- EN 61984 / CE marked / UL / CSA approved
- IP66 rated, UL Type 4/4X/12
- Operating Temperature = -40°C to +125°C

**NEW**



663598

Description	Mfrs. List No.	Order Code	Price Each			
			1+	5+	10+	25+
<b>Enclosure Size 57.27</b>						
Top Entry Hood, M20	MHV10.20	214-4623				
Top Entry Coupler, M25	MHV10G25	214-4624				
Side Entry Hood, M20	MHO10.20	214-4625				
Panel Mount Housing	CHI10	214-4626				
Surface Mount Housing, M20	MHP10.20	214-4627				
Cover, with Pegs	CHC10	214-4628				
Cover, with Lever	CHC10G	214-4629				
<b>Enclosure Size 77.27</b>						
Top Entry Hood, M20	MHV16.25	214-4630				
Top Entry Coupler, M25	MAV16G25	214-4631				
Side Entry Hood, M20	MHO16.25	214-4632				
Panel Mount Housing	CHI16	214-4634				
Surface Mount Housing, M20	MHP16.25	214-4635				
Cover, with Pegs	CHC16	214-4636				
Cover, with Lever	CHC16G	214-4637				
<b>Enclosure Size 104.27</b>						
Top Entry Hood, M25	MHV24.25	214-4638				
Top Entry Hood, M32	MAV24.32	214-4639				
Top Entry Coupler, M32	MAV24G32	214-4640				
Side Entry Hood, M25	MHO24.25	214-4641				
Side Entry Hood, M32	MAO24.32	214-4642				
Panel Mount Housing	CHI24	214-4643				
Surface Mount Housing, M25	MHP24.25	214-4644				
Surface Mount Housing, M32	MAP24.32	214-4646				
Cover, with Pegs	CHC24	214-4647				
Cover, with Lever	CHC24G	214-4648				

# Heavy Duty Connectors - Deutsch

## STRIKE Connector System

### Heavy Duty



- Heavy duty
- Power applications up to 150A
- Temperature operating range -55°C to 125°C
- Vibration up to 30G
- UL94 V0
- Environmentally sealed to IP6K9K
- DEUTSCH Common Contact System



**NEW**

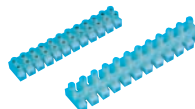
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No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
<b>Receptacle - Full Size</b>					
8	SRK02-FLA-08A-001	186-7796			
36	SRK02-FLA-36A-001	186-7798			
64	SRK02-FLA-64A-001	186-7801			
<b>Plug - Full Size</b>					
8	SRK06-FLA-08A-001	186-7797			
36	SRK06-FLA-36A-001	186-7800			
64	SRK06-FLA-64A-001	186-7802			

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
<b>Receptacle - Medium Size</b>					
4	SRK02-MDA-04A-001	186-7803			
32	SRK02-MDA-32A-001	186-7806			
<b>Plug - Medium Size</b>					
4	SRK06-MDA-04A-001	186-7804			
32	SRK06-MDA-32A-001	186-7807			
<b>Receptacle - PCB</b>					
32 - Right Angle	SRK13-MDA-32A	186-7808			
32	SRK15-MDA-32A	186-7809			
<b>Accessories</b>					
<b>Backshells</b>					
Full Size	SRK-BS-FL-ST-001	186-7810			
Full Size - Right Angle	SRK-BS-FL-90-001	186-7811			
Medium	SRK-BS-MD-ST-001	186-7812			
Medium - Right Angle	SRK-BS-MD-90-001	186-7813			
<b>Solid Contacts - 8mm Diameter</b>					
16mm <sup>2</sup> - Pin	SRK-PC-080-16-601	186-7814			
25mm <sup>2</sup> - Pin	SRK-PC-080-25-601	186-7815			
35mm <sup>2</sup> - Pin	SRK-PC-080-35-601	186-7816			
16mm <sup>2</sup> - Socket	SRK-SC-080-16-601	186-7818			
25mm <sup>2</sup> - Socket	SRK-SC-080-25-601	186-7819			
35mm <sup>2</sup> - Socket	SRK-SC-080-35-602	186-7820			
<b>Solid Pin Contacts - Sizes 12, 16, 20</b>					
#12 / 12-14 AWG	0460-204-12141	184-1929		10+	50+
#16 / 14-16 AWG	0460-215-16141	181-7042			
#16 / 16-18 AWG	0460-202-16141	181-7041			
#20 / 16-18 AWG	0460-010-20141	189-9536			
#20 / 20 AWG	0460-202-20141	184-1931			
<b>Solid Socket Contacts - Sizes 12, 16, 20</b>					
#12 / 12-14 AWG	0462-203-12141	184-1930			
#16 / 14-16 AWG	0462-209-16141	181-7044			
#16 / 16-18 AWG	0462-201-16141	181-7043			
#20 / 16-18 AWG	0462-005-20141	189-9537			
#20 / 20 AWG	0462-201-20141	184-1933			
<b>Wire Seals</b>					
For 25mm <sup>2</sup> Contact	SRK-WS-25-001	186-7822		1+	10+
For 35mm <sup>2</sup> Contact	SRK-WS-35-001	186-7823			
White - Blind	25-JH-0024	186-7824			
Green	25-JH-0042	186-7825			
<b>Extraction Tools</b>					
Field Service	SRK-RT-01	186-7826		1+	5+
For 8mm Contacts	SRK-EXT-80-MD	186-7827			
<b>Crimp Tool for Size 12, 16 &amp; 20 Contacts</b>					
	HDT-48-00	181-7060		1+	

## Panel Mount Terminal Blocks

### Polyamide/Nylon 12 Way 6A



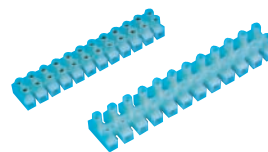
- Commercial quality nylon 6A
- |         |          |                 |      |
|---------|----------|-----------------|------|
| Housing | Nylon 66 | Working Voltage | 450V |
|---------|----------|-----------------|------|

Current Rating	Max wire size mm <sup>2</sup>	Width mm	Length mm	Height mm	Pitch mm	Fix. Hole Din	Order Code
6A	1.5mm <sup>2</sup>	16.3	95.8	13.3	8	2.9	176-0676

209220

Order Code	Price Each				
	1+	50+	100+	250+	500+
176-0676					

### Polyamide/Nylon 12 Way 17.5 A and 24 A



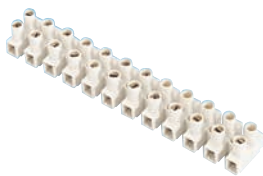
- 1.2mm Raised Base
- Polyamide 66 (Nylon 66)
- Nickel plated inserts
- UL94V-2

Current Rating	Max wire size mm <sup>2</sup>	Width mm	Length mm	Height mm	Pitch mm	Fix. Hole Din	Order Code
17.5	1.5	17	96.6	14.4		2.9	176-0677
17.5	1.5	17	96.6	14.4		2.9	176-0678
24	2.5	20.2	116.8	16.7		3.6	176-0679
24	2.5	20.2	116.8	16.7		3.6	176-0680

490534

Current	Order Code	Price Each				
		1+	50+	100+	250+	500+
17.5A	176-0677					
24A	176-0679					
<b>With wire protector</b>						
17.5A	176-0678					
24A	176-0680					

## Nylon 10A, 12 Way



- Nylon 6 White **UL94 V2**
- Approvals, **VDE, SEMKO, NEMKO, DEMKO, OVE**

Max voltage: 400V  
 Current rating: 10A  
 Max temp: 100°C  
 Screws: M3, Zinc Plated Steel  
 Inserts: Brass, nickel plated

227341

Order Code	Price Each				
	1+	50+	100+	250+	500+
113-4210					

## Polyethylene 12 Way 6, 10, 16, and 32A



10A, 16A, 32A

- Nickel plated brass inserts, nickel cadmium plated steel screws
- Made from self extinguishing polyethylene
- Maximum operating temperature 80°C
- Approvals **OVE, SEV**

Order Code	Current Rating	Max Volts	Max wire size mm <sup>2</sup>	mm	Width mm	Pitch mm	Fixing Hole Dia
117-8395	6A	380V	2.5	15.8	93	13	8
117-8396	10A	380V	4	18.6	118.7	15.2	10
117-8397	16A	380V	6	23.5	134.7	17.3	11.5
117-8399	32A	500V	16	26	176.5	21	15

209003

Order Code	Price Each				
	1+	50+	100+	250+	500+
6A1275	117-8395				
10A1276-18	117-8396				
16A1277	117-8397				
32A1278	117-8399				

## Nylon 12 Way 6 and 16A - with Standoffs



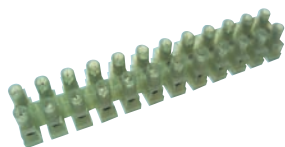
- Made from nylon 6.6
- Ribbed standoffs to meet creepage and clearance requirements
- Approvals: **SEMKO, NEMKO** and **SEV** (to 380Vac working) 1178389 (16 amp) **DEMKO** and **VDE** to 380V AC
- 120°C max. operating temperature

Current Rating	Max wire size mm <sup>2</sup>	Width mm	Length mm	Height mm	Pitch mm	Fix. Hole Dia mm	Order Code
6A	1.5	16	93.8	16.2	8	2	117-8388
16A	3.5	18.6	117	18.5	10	3.5	117-8389

209004

Order Code	Price Each				
	1+	50+	100+	250+	500+
6A	117-8388				
16A	117-8389				

## Nylon 12 Way with Wire Protectors



- 12 pole terminal blocks in natural nylon 6.6 (self-extinguishing to UL 94 V2)
- Raised base to meet requirements for creepage and clearance when metal surface mounting
- The NP brass inserts have captive zinc plated and passivated steel screws which screw down onto stainless steel leaf

spring wire protectors, protecting conductors on tightening.

- Tested and approved to EN 60998, The new harmonised European standard for terminal blocks
- Approvals: **VDE, IMQ, UL** recognised and **cURus IMQ** and **VDE** markings have validity in all **CENELEC** countries. **cURus** is the new recognised component mark for both US and Canada.

Housing Screws Working Voltage Polyamide Steel 450VV Contacts Wire protectors Temp range \*\* Brass Stainless steel/Stainless Steel -5°C to +125°C (110°C 149851)

Current Rating *	Max wire size mm <sup>2</sup>	Width mm	Length mm	Height mm	Pitch mm	Fix. Hole Dia mm	Order Code
17.5A (6A)	1.5	15	93.5	15.2	8	2.6	121-1490
24A (10A)	2.5	20	117	17.5	10	3.2	120-6595
32A (16A)	4	23	139	20.7	12	3.2	121-1491
57A (32A)	6	25.3	175	25.5	15	4.2	121-1492

\* Previous ratings to EN 60335

\*\*Constant working temperature. Terminals are tested at +30° C above this value

209005

Order Code	Price Each				
	1+	50+	100+	250+	500+
PA35WP-FA	121-1490				
PA27WP-FA	120-6595				
PA44WP-FA	121-1491				
57A	121-1492				

## Terminal Block - Easy Break

### 12 Way



- Easily snapped to required number of poles
- No remaining burrs
- No tools needed to cut to length

Maximum Voltage 450V  
 Working Temperature Range -30°C to +110°C  
 Material Brass  
 Spring Housing Colour  
 Zinc Plated Steel  
 Brass  
 Black

478116

Wire size	Current	Mfrs. List No.	Order Code	Price Each			
				1+	10+	50+	100+
2.5mm <sup>2</sup>	24A	CTSOS431/12BK	142-5637				
6mm <sup>2</sup>	41A	CTSOS433/12BK	142-5639				
10mm <sup>2</sup>	57A	CTSOS434/12BK	142-5641				

## Touchproof Terminal Blocks

### 10A 12 Way



- Designed with extra long screw turrets and extended housings to be fully touchproof without the need to use covers
- Captive screws fitted as standard

● Standard 12 way length can be cut to suit requirements

● Approvals, **UL, CSA, VDE**.

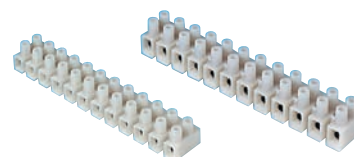
Current rating 10A  
 Maximum temp. 100°C  
 Housing Nylon 6 Natural UL94 V2  
 Voltage Rating 380V

271682.342599

List No.	Order Code	Price Each			
		1+	50+	100+	500+
500SKSL12A	113-4211				

## High Power - 12 Way

### 41A and 57A with standoffs



● High power Terminal Blocks ● 1.2mm raised base  
 Voltage Rating 500V AC  
 Max Wire Size PA12 6mm<sup>2</sup> PA14 10mm<sup>2</sup>  
 Material Nylon 66 UL94V-2 Natural  
 Working Temp Terminal Insert 110°C  
 Brass nickel plated

238652

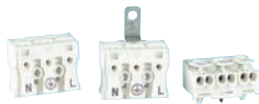
Current	List No.	Order Code	Price Each				
			1+	50+	100+	250+	500+
41A	PA12	120-7655					
57A	PA14	120-7656					

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# Panel Mount Terminal Blocks - continued

## Screwless Terminal Block

16A 3 Way



- Series 980 connectors allow push fit and push button release.
- Widely used in lighting applications.
- 2 ports per pole each side.
- Screw fix or panel catch pins.
- Various earthing options available.

- Manufactured to **ENEC10**.

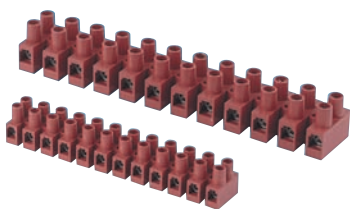
Current rating	Voltage Rating	
Maximum temp.	Housing	271685.344143

Mfrs. List No.	Order Code	5+	50+	100+	500+
<b>Screw Fix Without Earth</b>					
	113-4213				
<b>Screw Fix, Screw Earth</b>					
	113-4214				
<b>Catch Pins, Earth Tab</b>					
	113-4215				



## High Temperature Terminal Blocks

12 Pole



Approved to the latest EN60998 specification, this range of 12 pole, high temperature terminal blocks is manufactured from brown glass filled polyamide insulation which houses the nickel plated brass screw terminals. The housing features fixing screw holes and can be cut into smaller sizes and the products are supplied with screws in the raised position ready for assembly.

- Rated temperature 150°C. Tested to 180°C
- Approvals: **CSA VDE**
- UL94V-0 rated

Housing Voltage Max Terminal	Glass reinforced polyamide, UL94 V0 450V	Nickel plated Brass			
Order Code	Max Current	Max Wire Size mm <sup>2</sup>	Rated Temp	Test Temp	
113-0904	24A	2.5	150°C	180°C	
113-0906	32A	4	150°C	180°C	
113-0907	41A	6	150°C	180°C	
113-0908	57A	10	150°C	180°C	

Mfrs. List No.	Order Code	1+	10+	50+	100+	500+
PA35FV	113-0904					
PA27FV-F	113-0906					
PA44FV-F	113-0907					
PA75FV-F	113-0908					

## Flexible PVC3

- Captive terminal screws
- Easily subdivided with a knife
- Fully shrouded terminal, protects against accidental contact
- Domed end terminal screws, minimise damage to conductors

Insulation resistance	≥MΩ	Housing Contacts	PVC Brass, -55°C to +70°C
Breakdown Voltage	≥7000V	Temperature range	
Colour	grey		

## 12 Way 15, 20 and 43A

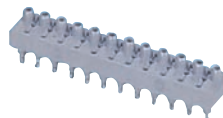


Mfrs. List No.	Current Rating	Height	Width	Length	Pitch	Fixing Centres	Dia
L744/NI	20A	15.9	19.1	127	10.8	14.3x10.8	2.4
L1325/NI	43A	23.8	26.2	181.4	15.1	19.5x15.1	4

Mfrs. List No.	Order Code	1+	50+	200+	500+
L744/NI	942-7058				
L1325/NI	942-7066				

## Through Panel Fixing 12 Way 15A

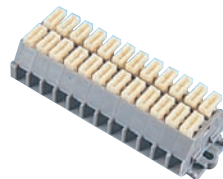
90° Solder Termination



H=13.9, W=15.9, L=95.3  
Pitch=7.9, Fixing=11.1x7.9x2.4 dia,  
Panel cut-out=4.8 dia @ 7.9 pitch

Mfrs. List No.	Order Code	1+	50+	200+	500+
L1409/NI	942-7074				

## Cage Clamp 12 Way 26A



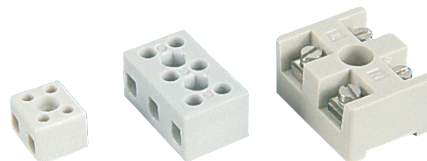
Cage clamp mechanism  
H=18, W=28, L=86.5, Pitch=6,  
Fixing centres=80.1x3.2 dia

- Vibration proof, reliable and fast to operate
- Insertion of wire by pressing the button with a screwdriver blade
- Modular construction allows splitting or joining for required no. of ways
- Additional end plates available
- Approvals: **VDE, SEV, KEMA-KEUR, OVE, CEBEC, SEMKO, DEMKO, NEMKO, SETI**, (15A @ 300V) and **CSA** (10A @ 300V)
- **UL** Recognised

Maximum Voltage	500 VAC 500V	Cage clamp spring	Chrome nickel spring steel
Current rating	26A	Contacts	Copper
Temperature range	-35°C to +105°C	Housing	Nylon 6.6UL94V-2
		Colour	Light grey/Light Grey
		Wire size	0.08-2.5mm <sup>2</sup> 14-26
		Box qty.	25

Mfrs. List No.	Order Code	1+	25+	100+	250+
261-112/341-000	128-3525				
<b>10 Per Pack</b>					
<b>End plate</b>					
261361	464-934		1+	10+	20+

## High Temperature



- Suitable for high temperature applications
- Ideal for low voltage lighting and electric heating
- Open terminal version suitable for bare wires and fork terminals

Working Voltage	250rms max. 350°C max.	Housing Inserts	Porcelain Brass,					
Temperature								
Current Rating	No. of Ways	Wire size max. mm <sup>2</sup>	Length mm	Width mm	Height mm	Fixing Centres mm	Fixing Hole Dia mm	Order Code

24A	2	2.5	21	18	15	-	4.5	117-0355
24A	3	2.5	33	18	15	11.511.5	4.5	117-0356
32A	2	10	24	22	21	-	5.5	117-0357
32A	3	6	38	23	19	13.513.5	5	117-0358
57A	2	10	34	30	23	-	5	117-0359
57A	3	10	51	30	22	18.218.2	5	117-0360

Current No. of Mfrs. Rating	Ways	List No.	Order Code	1+	10+	20+	100+	200+
<b>Enclosed Terminals - Steatite</b>								
	2	2-402Z-2/ST	117-0355					
	3	2-403Z-3/ST	117-0356					
	2	2-1602-2/ST	117-0357					
	3	2-1603-3/ST	117-0358					
	2	2-2021-2/ST	117-0359					
	3	2-2031-3/ST	117-0360					



## Enclosed Terminal Blocks

### Teebox

Cable Splitter / Junction Enclosure



- A unique cable splitter / junction enclosure
- Complete with a three way junction box
- Suitable for internal or external use
- Screw or snap fit chassis mount versions available

Voltage rating	250V	Cable Acceptance	3
Current Rating	250V AC	Material Case	PA66 Polyamide
Temperature Range	-20°C to +125	Material Terminal Block	Plastic
IP rating	IP67		

484520

#### Price Each

No. of Ways	Mfrs. List	Order Code	1+	5+	10+	25+
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#### Screw Mounted Junction Box

3	THK200C2E-F	120-6598				
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### T Splitter Cable Connector

3 Pole



- Cable diameter of 5mm to 13mm
- Supplied as complete kit
- Conforms to CE requirements and IMQ NEMKO approvals

Voltage Rating	250V ac
Current Rating	16A
IP Rating	IP68
Temperature Range	0°C to 100°C
Case Material	PA66
Flammability Class	UL94V2

496396

#### Price Each

No. of Poles	Mfrs. List No.	Order Code	1+	5+	10+	25+
3	THR.390.S3T	152-1774				

### Four Port Junction Box

IP68



- Cable diameter of 5mm to 14mm
- Supplied as complete kit
- Suitable for outdoor power distribution
- Approvals CE IMQ and NEMO

Voltage Rating	450V ac	Temperature Range	0°C to 125°C
Current Rating	32A	Case Material	Black PA66
IP Rating	IP68	Flammability Class	UL94V2

496379

#### Price Each

No. of Poles	Mfrs. List No.	Order Code	1+	5+	10+	25+
3+3	THR.209.S6D	152-1772				

### Four port gel filled junction box

3 Pole



- Cable diameter of 9.5mm to 12mm
- Supplied as complete kit
- Conforms to CE requirements

Voltage Rating	250V ac	Cable Acceptance	9.5 - 12mm
Current Rating	4A	Case Material	Nylon 6.6
IP Rating	IP68	Flammability Class	UL94V2
Temperature Range	0°C to 100°C		

496588

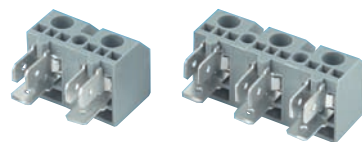
#### Price Each

No. of Poles	Mfrs. List No.	Order Code	1+	5+	10+	25+
3	5625/12///66	152-1777				

## Tab Terminal Blocks

### Terminal Block 16 Amp

Screw to Tab connector



- Available in 2, 3, and 6 pole versions
- M4 screw to 3 tabs (6.3 x 0.8)
- Supplied with screws in raised position ready for assembly
- Approvals CSA and UL Recognised

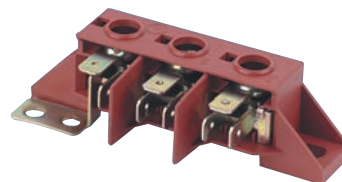
Screw Tabs	Steel zinc plated TinSteel plated	Temperature Op	110°C
Voltage rating	400V	Current rating	16A
Temperature Max	170°C	Casing material	Grey polyamide

239257

No. of Poles	Mfrs. List No.	Order Code	1+	10+	50+	100+	500+
2	1196300402-F	117-0378					
3	1196300403-F	117-0379					
6	1196300406-F	117-0380					

### Terminal Block 40 Amp

3 Pole screw to tab connector



- Available in standard and earth foot versions
- M5 screw to 3 tabs (6.3 x 0.8)
- Ideal for high temperature power distribution applications
- 411-5624 supplied with earth foot enabling chassis to be connected directly to earth terminal without further cabling
- Pitch, 17.7mm
- L.N.E. markings moulded into product

Height	24	Width	81.3	Depth	15
Screw / Tab	Steel Zinc plated	Max operating Temperature	150°C	Case material	Brown fibreglass loaded polyamide
Voltage rating	450V	Max. cable size	6mm <sup>2</sup>		
Approvals	UL, CSA, VDE				
Current rating	40A				

239258

Mfrs. List No.	Order Code	1+	10+	50+	100+	500+
FV110-F	120-6596					
FV110/B-F	120-6597					

## Push In Terminal Blocks

### Pushwire Connectors for Junction Boxes

773 Series



Pushwire Connectors for Junction Boxes



- Reliable screwless connection
- Accepts solid or standard conductors
- Eliminates untidiness, bare wires and loose connections
- Compact and ergonomically designed with integrated test point
- Fast wiring with simple push-in connection
- Clear housing shows connection is fully made

#### Applications

- Junction boxes in domestic, commercial and industrial applications
- Power distribution circuits
- Lighting fixtures

Current	24A	Rated Voltage	400V/4kV/2	H	13.1	D	9.2	Conductor Size	0.75mm <sup>2</sup> - 0.75mm <sup>2</sup> solid, 1.5mm <sup>2</sup> - 2.5mm <sup>2</sup>
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# Push In Terminal Blocks - continued

## Pushwire Connectors for Junction Boxes - continued

### 773 Series - continued

233385/406617

Order Multiple=10	No. of Poles	Colour	W	Mfrs. List No.	Order Code	Price Each		
						10+	50+	100+
	2	Yellow	9.2	773-102	128-3415			
	4	Orange	13.0	773-104	128-3416			
	6	Lilac	18.8	773-106	128-3417			
	8	Dark Grey	24	773-108	128-3419			
	3	Red	25.6	773-173	207-4793			

### Series 273 Pushwire Connectors



Rated Current: 18A  
Wire Size: 0.75-1.5mm<sup>2</sup>  
Rated Voltage: 400V/4kV/2

Rated Current: 24A  
Wire Size: 1-2.5mm<sup>2</sup>  
Mfrs. No. of Ways  
List No. Order Code

Mfrs. List No.	No. of Ways	Order Code	Price Each		
			1+	10+	50+
<b>Grey</b>					
273-101	5	128-3516			
273-108	8	128-3521			
273-100	3	207-4794			

#### Transparent

273-155	5	128-3447			
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213742

Mfrs. List No.	No. of Ways	Order Code	Price Each		
			1+	10+	50+

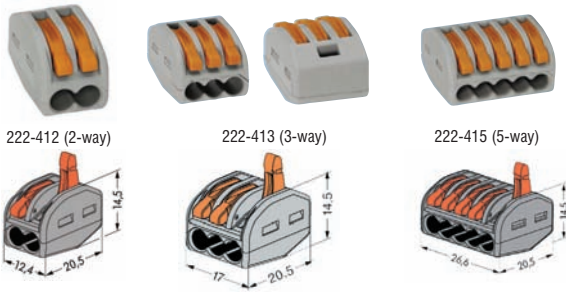
#### Dark Grey

273-112	2	128-3523			
273-104	3	128-3519			
273-102	4	128-3517			
273-105	5	128-3520			
273-103	8	128-3518			

#### Transparent

273-253	3	128-3448			
273-255	5	128-3449			
273-258	8	128-3450			

### Series 222/connecting terminal



- Compact connecting terminal for up to 5 stripped flexible conductors
- Conductor size from 0.08 to 4 mm<sup>2</sup>
- Operating lever avoids the need for tools for operation

#### Technical data:

##### Series 231, 2-way- CAGE CLAMP S -connection

Approvals: ENEC, UL  
Wire size: 0.08mm<sup>2</sup> - 4mm<sup>2</sup>

377542

Type	No. of Contacts	Order Code	Price Each		
			1+	10+	50+
222-412	2	130-0511			
222-413	3	836-5830			
222-415	5	836-5849			

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## PCB Terminal Kits

### Basic and Professional



NEW



Selection of Wago connectors from their 222, 773 & 224 product families in a handy carry case.

#### Basic Kit Contents:-

- 222-412 x 10
- 222-413 x 10
- 222-415 x 5
- 773-102 x 10
- 773-104 x 10
- 773-106 x 5
- 773-108 x 5
- 224-101 x 10
- 224-112 x 10

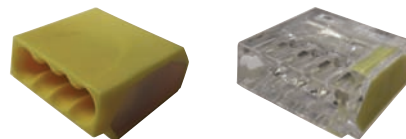
#### Professional Kit Contents:-

- 222-412 x 40
- 222-413 x 40
- 222-415 x 20
- 773-102 x 40
- 773-104 x 40
- 773-106 x 10
- 773-108 x 10
- 224-101 x 20
- 224-112 x 20

658355

Mfrs. List No.	Order Code	Price Each	
		1+	3+
51228987	Basic	186-9355	
51228988	Professional	186-9356	

### Push-In Wire Connectors



NEW

This range of Push-In Wire connectors are available with either a polycarbonate translucent housing or a polyamide solid coloured housing. The push wire termination provides a reliable, screwless connection that greatly reduces installation time.

- Housing Material: Polyamide 66 (PA66) / Polycarbonate (PC)
- Flame retardant to UL-94V-2
- Max Current = 30A(cULus), 24A(VDE)
- Max Voltage = 600V(cULus), 450V(VDE)
- Working Temperature = 110°C
- Wire Range = 1.0-2.5 mm<sup>2</sup> / 12-22 AWG
- Stripping length = 11mm (0.43")
- International Approvals: cULus: E-113650, CE, VDE, FIMKO, KEMA, CEBEC

659766

No. of Poles	Colour	Mfrs. List No.	Order Code	Price Each			
				10+	50+	100+	500+
<b>Polyamide solid coloured housings</b>							
2	Red	PC252X-R	211-3907				
3	Orange	PC253X-LO	211-3908				
4	Yellow	PC254X-Y	211-3911				
5	Grey	PC255X-G	211-3912				
8	Black	PC258-BK	211-3913				
<b>Polycarbonate translucent housings</b>							
2	Red	PC252X-CL	211-3914				
3	Orange	PC253X-CL	211-3915				
4	Yellow	PC254X-CL	211-3916				
5	Grey	PC255X-CL	211-3917				
8	Black	PC258-CL	211-3918				

### Series 224 Lighting Connectors



- Lighting connectors suitable for a variety of applications
- Installation/field side for solid conductor
- Lighting side for stranded or solid conductor

Wire Size Installation Side: 1.0mm<sup>2</sup> - 2.5mm<sup>2</sup> Solid Conductor  
Wire Size Lighting Side: 0.5mm<sup>2</sup> - 2.5mm<sup>2</sup> Solid or Stranded Conductor

Insulation Strip Length: 9 - 11mm  
Rated Voltage: 400V/4kV/2  
Rated Current: 24A

213716

Mfrs. List No.	Order Code	Price Each		
		1+	10+	50+
224-101	128-3484			

## Service Connector



- Service connector for two stranded conductors
- Colour: Grey



Wire Size: 0.5 - 2.5mm<sup>2</sup> Rated Current: 24A  
 Rated Voltage: 400V/4kV/2 Insulation Strip Length: 9-11mm

Mfrs. List No.	Order Code	1+	10+	50+
224-201	128-3495			

## Lighting Connectors 1 and 2 Pole



- For use with solid and stranded wires
- Available with 1 or 2 poles
- Test slot permits easy testing with voltage tester
- Can be reused

Wire Size Installation Side: 0.75 - 2.5mm<sup>2</sup> Rated Current: 24A  
 Solid Conductor Rated Voltage: 450V  
 Wire Size Lighting Side: 0.5 - 2.5mm<sup>2</sup>  
 Solid or Stranded Conductor

Order Multiple=50	No. of	Price Each				
Mfrs. List No.	Order Code	Colour	Poles	50+	500+	1K+
PC301	135-7331	Grey	1			
PC302	135-7332	White	2			

## 2-Conductor Lighting Connectors



- Lighting connectors for solid and stranded connectors
- Continuous operating temperature 105°C
- Colour: White

Wire Size Installation Side: 2 x 1.0 - 2.5mm<sup>2</sup>  
 Solid Conductor  
 Wire Size Lighting Side: 0.5mm<sup>2</sup> - 2.5mm<sup>2</sup>  
 Solid or Stranded Conductor

Rated Current: 24  
 Rated Voltage: 40V/4k/2A

Mfrs. List No.	Order Code	5+	10+	50+
224-112	128-3451			

## Luminaire Disconnect Plug & Socket

**NEW**



- UL 2459 Listed and CSA 22.2 No. 2459-08 Certified
- Gripping ribs on sides provide secure grip
- Designed to protect against mis-mating
- Excellent for OEM or retrofit lighting applications
- Male Connector for use with solid wires
- Female Connector for use with solid & stranded wires
- Polyamide 66, orange, flame-retardant housings - UL94V-0

Specifications:-  
 Rated Current: 0.6 - 3A Male Side Wire Size: 18 AWG  
 Rated Voltage: 600 - 120V Female Side Wire Size: 12-18 AWG  
 Working Temp. 105°C Strip Length: 9.5mm

No. of Poles	Order Code	5+	25+	50+	100+	250+
2	186-0636					

## HelaCon Plus - Wire Connectors Double spring technology



HelaCon Plus is a sophisticated push-in wire connector for professional cable connections in electrical housing applications. The newly developed double spring allows easy processing and will support installers especially in tricky situations like overhead work. This ensures proper fixing that can optically be

checked through the transparent housings. Different colour codes provide a comfortable identification of the different connectors. A separate voltage test entry on the front guarantees safety during application, installation and maintenance.

Material Housing: Polycarbonate (PC)  
 Material Plated Brass: Brass Tinned  
 Material Spring Plate: Stainless Steel  
 Max Current: 24A  
 Max Voltage: 450V (VDE) 600V (cULus)  
 Wire range (cULus): AWG 12 to 22 solid/stranded

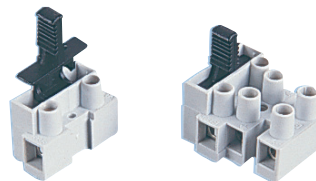
Wire Range (VDE) 0.5 to 2.5mm<sup>2</sup> solid/stranded (max 7 cores)  
 Stripping Length 11mm  
 Flammability UL94 V0  
 Operating Temperature -30°C to +110°C (VDE), -30°C to +105°C (cULus)  
 Specification VDE, NEMKO, SEMKO, FIMKO, DEMKO, KEMA-KEUR, CE, cULus

491291

Colour	Ways, no of	Order Code	1+	50+	100+
Transparent-Yellow	2	151-0649			
Transparent-Orange	3	151-0650			
Transparent	4	151-0651			
Transparent-Blue	5	151-0652			
Transparent-Violett	6	151-0653			
Transparent-Grey	8	151-0655			

## Fused Terminal Blocks

### Interlocking, 20mm or 1"/1¼" Fuses 10A and 16A



	20mm	1"/1¼"
No. of Ways	1 3	1 3
Height	27.5 27.5	32 32
Width	14.5 30	19 36
Depth	27 27	39 39
Fixing hole dia.	2.1 3.1	3.6 3.6
Earth screw	M3 x 12	M3.5 x 12

- One and three way interlocking nylon terminal blocks
- In-line fuse holder
- rear mounting screw threaded through earth ( ) terminal on 3 way
- Three way block interlocks with one way
- Approvals: VDE, with SEMKO and SEV on 20mm versions

Max working voltage 250V ac Housing Nylon (6.6)  
 Current rating 10A16A Colour Grey (housing)  
 20mm type 16A Fuse contacts Black (fuse holder)  
 1"/1¼" type 16A Maximum wire size Stainless steelStainless Steel  
 Temperature range -40°C to +100°C 4mm<sup>2</sup>

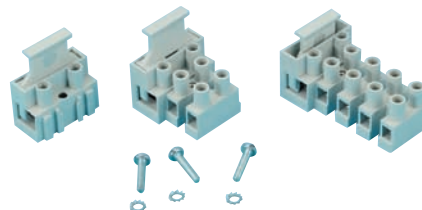
209025

No. of Ways	1+	10+	50+	100+	500+	1K+
1	113-4203					
3	113-4205					

**1"/1¼" Fuse - 16A**

1	113-4207					
3	113-4208					

## 1-5 pole terminal block with 5 x 20mm fuse holder



H = 28.0, W = 20.0 terminal strip, W = 28.0

- 1-5 pole terminal block with 5 x 20mm fuse holder to IEC257
- Interlocking fuse holder CFTBN/1
- IP20 finger protection
- 2.5mm<sup>2</sup> cable entry with wire protector
- Supplied c/w earth screw & washer
- Wire protector standard on fused terminal
- Approvals Semko, Femko, VDE, IMQ, Nemko & UL Recognised

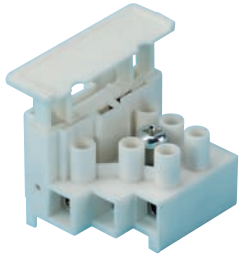
Maximum Voltage 450V ac Bush Brass  
 Max Current Rating 13A/20A Spring Zinc plated Steel  
 Working Temperature Range -20°C to 120°C Housing Nylon 6.6 UL94V-0  
 Max Short Duration Temp 110°C Colour Grey

232107

No. Poles	Mfrs. List No.	Order Code	1+	10+	50+	100+
<b>Without Earth Screw</b>						
1	CFTBN/1	388-2792				
2	CFTBN/2	388-2809				
<b>With Earth Screw</b>						
3	CFTBN/3	388-2810				
4	CFTBN/4	388-2822				
5	CFTBN/5	388-2834				

## Fused Terminal Blocks - continued

### 6.3 x 25mm & 5 x 20mm Fused Terminal Block **CAMDENBOSS** ELECTRONICS & ENCLOSURES



- 3 pole terminal block capable of taking 5 x 20mm & 6.3 x 25mm fuses to **IEC257**
- Supplied complete with earth screw and washer
- **IP20** finger protection
- 10mm<sup>2</sup> cable entry with wire protector
- Approvals **CE**

**NEW**

H = 25.0 fuse carrier, Max W = 35.6

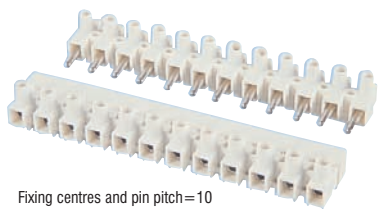
Maximum Voltage	Fuse holder 450V ac	Maximum Voltage	Terminal 450V ac
Max Current	Fuse holder 13A	Max Current	Terminal 20A
Housing	Polyamide 6.6 UL94V-0	Working Temperature Range	-20°C to 120°C
Terminal	110°C	Fuse clip	Phos Bronze
Bush	Brass	Colour	Grey
Wire Protector	Phos Bronze		

232108

Mftrs. List No.	Order Code	Price Each			
		1+	10+	50+	100+
3 pole CMFTB/3	<b>388-2846</b>				

## Plug-in Terminal Blocks

### Nylon Plug and Socket 12 Way 10A - with Standoffs



Fixing centres and pin pitch=10  
Fixing hole dia.=3.25, Pin length=9

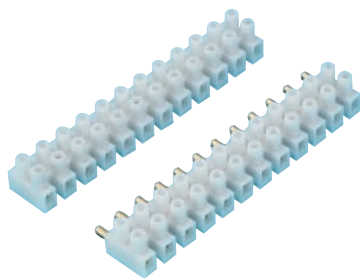
- A non-reversible plug and shrouded socket
- Suitable for use where cables need to be quickly disconnected
- Ribbed standoffs to meet creepage and clearance requirements
- Approval, **UL** Recognised

Max working voltage	250V ac	Housing	Nylon 6.6, <b>UL94V-2</b>
Current rating	10A	Contacts	Brass, Nickel
Temperature range	-60°C to +110°C	Screws	M3Steel, zinc plated
	UL	Maximum wire size	2.5mm <sup>2</sup>

209013

Order Code	Price per Pair				
	1+	50+	100+	250+	500+
<b>117-8400</b>					

### 6A / 10A / 16A Plug-In Terminal Strips



- 12 way plug-in terminal strips
- Easily cut to required length
- Allows application flexibility
- Approvals: **IMQ, KEMA, SEMKO, DEMKO, & VDE**
- **UL & CSA** Recognised

6A = H=15.5, W=18, Pitch=8,  
Fixing hole dia.=2.75mm  
10A = H=16.4, W=20.5, Pitch=10.25,  
Fixing hole dia.=3.2mm  
16A = H=19, W=23, Pitch=12.3,  
Fixing hole dia.=3.5mm

Maximum Voltage	450VAC	Bush	Brass
Max Current Rating	13/20A	Spring	6µ Zinc, colour passivated and tropicalised
Working Temperature Range	-5°C to +85°C	Housing	Self extinguishing Polypropylene, UL94V-2
Max Short Duration Temp	+110°C	Colour	White

528866

Description	Mftrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Female, 8mm/6A	CTSN431/12F	<b>787-5061</b>				
Male, 8mm/6A	CTSN431/12M	<b>787-5070</b>				
Female, 10mm/10A	CTSN433/12F	<b>167-8107</b>				
Male, 10mm/10A	CTSN433/12M	<b>167-8106</b>				
Female, 12mm/16A	CTSN434/12F	<b>787-5088</b>				
Male, 12mm/16A	CTSN434/12M	<b>787-5096</b>				

## Barrier Terminal Blocks



### Barrier Terminal Block



- Tri-Barrier and Double Row available
- Polyamide Insulator body

Mftrs. List No:	T40-BB11-04	=	136-0230	T44-BS11-04	=	136-0235
	T40-BS16-04	=	136-0232	T64 4WAY	=	136-0236
	T44-BB11-04	=	136-0233	T64 12WAY	=	136-0237

No. of Ways	Current	Terminal Style	Pitch	Wire size (AWG)	Mftrs. List No.	Order Code
4	10		6.35	30 to 16	T40-BB11-04	136-0230
4	10	Vertical	6.35	30 to 16	T40-BS16-04	136-0232
4	15		9.5	22 to 14	T44-BB11-04	136-0233
4	15	Vertical	9.5	22 to 14	T44-BS11-04	136-0235
4	20	N/A	9.5	22 to 12	T64 4WAY	136-0236
12	20	N/A	9.5	22 to 12	T64 12WAY	136-0237

479359

No. of Ways	Mftrs. List No.	Order Code	Price Each		
			1+	50+	100+
<b>Tri-Barrier</b>					
4	T40-BB11-04	<b>136-0230</b>			
4	T40-BS16-04	<b>136-0232</b>			
4	T44-BB11-04	<b>136-0233</b>			
4	T44-BS11-04	<b>136-0235</b>			
<b>Double Row</b>					
4	T64 4WAY	<b>136-0236</b>			
12	T64 12WAY	<b>136-0237</b>			

### Double Row Terminal Blocks - 5A



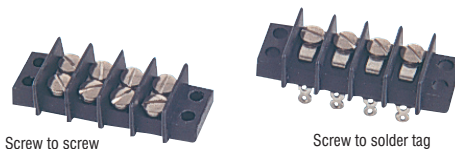
- .25" pitch
- 300 Volts

Current rating 5A  
Wire range 20 to 18AWG  
Terminals Brass Plated  
Screws Brass

490874

No. of Ways	Mftrs. List No.	Order Code	Price Each		
			1+	25+	100+
6	410-GP-6	<b>142-7802</b>			
8	410-GP-8	<b>142-7803</b>			
10	410-GP-10	<b>142-7804</b>			
12	410-GP-12	<b>142-7806</b>			
14	410-GP-14	<b>142-7807</b>			
16	410-GP-16	<b>142-7808</b>			
18	410-GP-18	<b>142-7809</b>			
20	410-GP-20	<b>142-7810</b>			

### Screw to Screw, Screw to Tag 3, 4 and 12 way 15A - High Barrier



H=12.8, W=3 way (46.5), 4 way (57.7), 12 way (133), D=22.3  
Fixing centres=7.9x4.3 diax3 way (38.1), 4 way (47.6) 12 way (123.8), Max. fork width=7.5

Max working voltage	750V ac	Housing	Black, Glass Filled Polyester
Current rating	15A	Screw terminations	6/32 UNC
Temperature range	-25°C to +85°C	Tags	L=11.5, W=4.0, Th=0.6

209015

No. of Ways	Order Code	Price Each				
		1+	10+	50+	100+	250+
<b>Screw to Screw Terminals</b>						
3	<b>118-8711</b>					
4	<b>118-8713</b>					
12	<b>118-8714</b>					
<b>Screw to Tag Terminals</b>						
3	<b>118-8715</b>					
4	<b>118-8716</b>					
12	<b>118-8717</b>					

## Modular Screw to Screw and Screw to Tag



H=12.7, W=(min 2 way=36.56 + multiples of 9.52 way), D=22.25  
Fixing centres=7.92x4.32 dia(2 way) 28.56 + multiples of 9.52, Max fork width=7.5

- Screw to screw and screw to tag
- 2 and 3 way connector options, combines in multiples to extend number of ways
- Mounting support required every 15 terminal on long rows
- Easy snap together segments

Max working voltage	500V ac or dc	Body material	Black Glass Filled Polyester
Contact material	Brass, Nickel	Screw terminations	4BA
Current rating	15A	Wire size	16AWG (max)
Temperature range	-55°C to +100°C		

209016

No. of Ways	Order Code	Price Each				
		1+	10+	50+	100+	250+
<b>Screw to Screw</b>						
2	118-8702					
3	118-8704					
<b>Screw to Solder Tag</b>						
2	118-8721					
3	118-8722					
<b>Order Multiple=5</b>						
Barrier junction	118-8705	5+	10+	50+	100+	250+
End cap	118-8706					

## Double Row Terminal Blocks - 15A



- .375" Pitch
  - Screw Construction
- |                |              |
|----------------|--------------|
| Current rating | 15A          |
| Wire range     | 22 to 12AWG  |
| Terminals      | Brass Plated |
| Screws         | Brass        |

490875

No. of Ways	Mfrs. List No.	Order Code	1+	25+	100+
<b>150V</b>					
2	670A-GP-2	142-7875			
4	670A-GP-4	142-7876			
6	670A-GP-6	142-7877			
8	670A-GP-8	142-7879			
10	670A-GP-10	142-7881			
12	670A-GP-12	142-7882			
20	670A-GP-20	142-7885			
<b>300V 5-40 Screws</b>					
2	600-GP-2	142-7822			
4	600-GP-4	142-7823			
6	600-GP-6	142-7824			
10	600-GP-10	142-7825			
12	600-GP-12	142-7826			
14	600-GP-14	142-7827			
16	600-GP-16	142-7828			
18	600-GP-18	142-7831			
20	600-GP-20	142-7832			
<b>300V 6-32 Screws</b>					
2	600A-GP-2	142-7812			
4	600A-GP-4	142-7813			
6	600A-GP-6	142-7814			
8	600A-GP-8	142-7815			
10	600A-GP-10	142-7816			
12	600A-GP-12	142-7818			
16	600A-GP-16	142-7820			

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## 12 Way 15A

9.6mm Pitch



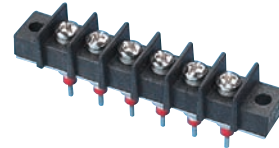
H=11.5, W=17, L=133.4, Pitch=9.6, Fixing=124.8x7.9, Dia, Pin=1.0x0.07

- Screw termination and right angled, through chassis or PCB termination
- |                         |                      |
|-------------------------|----------------------|
| Maximum Working Voltage | 380V                 |
| Current Rating          | 15A                  |
| Maximum Temperature     | 100°C                |
| Housing                 | Black, polycarbonate |
| Screw Terminations      | 4BA Pan head slotted |

231770

Mfrs. List No.	Order Code	1+	50+	200+	500+	+
L1795A	121-8802					

## Filtered Through Panel, 2, 3, 4 and 6 Way, 20A



H=14.5, W=2 way (42.9), 3 way (54.0), 4 way (65.1), 6 way (87.3), D=18.2  
Fixing centres = 2 way (33.3), 3 way (44.5), 4 way (55.6), 6 way (77.8) x 4.8 dia  
Pitch = 11.1, Through hole terminal dia. = 8.0, Pins = 1.6 dia.

- One row of screw terminals
- One row of Pi-section filtered through panel solder pins
- UL approved

Maximum working voltage	250V ac	Filter capacitance	2500 pF
Current rating	20A	Temperature range	-55°C to +105°C
Dielectric withstanding voltage	2kV	Housing	Thermoplastic

No. of Ways	Attenuation dB (50 system)	Mfrs. List No.	Order Code
2	10MHz 5, 20MHz 20, 30MHz 30	7602-501LF	113-1019
4	10MHz 15, 20MHz 30, 30MHz 45, 45MHz 55	7604-501LF	113-1020

209311

No. of Ways	Order Code	1+	5+	10+	25+
2	113-1019				
4	113-1020				

## 72 Series - 20A



- .375" pitch PCB barrier terminal strip
- PCB mount

Current rating	20A @ 300V 12AWG	Insulation resistance	>MΩ
Wire range	24 to 12AWG (0.2 - 3.3)mm <sup>2</sup>	Housing	Black Thermoplastic UL94V-0
Maximum temp.	110°C	Terminals	Brass Tin / Lead
Withstand voltage	>10500V	Screws	Steel, Zinc Chromate plated

230213

No. of Ways	Terminal Type	Mfrs. List No.	Order Code	1+	25+	100+	250+
2	PCB	38720-7502	997-4008				
3	PCB	38720-7503	972-7868				
4	PCB	38720-7504	997-4016				
5	PCB	38720-7505	997-4024				
6	PCB	38720-7506	997-4032				
8	PCB	38720-7508	997-4040				
10	PCB	38720-7510	997-4059				
12	PCB	38720-7512	997-4067				

## Double Row Terminal Blocks - 20A



- .375" and .430" Pitch
  - Screw Construction
- |                |              |
|----------------|--------------|
| Current rating | 20A          |
| Wire range     | 22 to 12AWG  |
| Terminals      | Brass Plated |
| Screws         | Brass        |

### Double Row Terminal Blocks - 20A - continued

490876

No. of Ways	Mftrs.		Price Each		
	List No.	Order Code	1+	25+	100+
<b>150V</b>					
8	670A-RZ-08	142-7886			
20	670A-RZ-20	142-7887			
24	670A-RZ-24	142-7888			
30	670A-RZ-30	142-7889			
<b>300V</b>					
2	601-GP-2	142-7834			
3	601-GP-3	142-7835			
4	601-GP-4	142-7836			
5	601-GP-5	142-7837			
6	601-GP-6	142-7838			
8	601-GP-8	142-7840			
10	601-GP-10	142-7841			
12	601-GP-12	142-7843			
16	601-GP-16	142-7844			
18	601-GP-18	142-7845			
20	601-GP-20	142-7846			
<b>300V Closed Back</b>					
4	671-GP-4	142-7892			
6	671-GP-6	142-7893			
8	671-GP-8	142-7894			
10	671-GP-10	142-7895			
12	671-GP-12	142-7896			
16	671-GP-16	142-7898			



- Two rows of solder or snap on connections.

H=10.6, W=22.4, L=62.2  
Pitch=5.08, Fixing=55.9x1.2 dia, Tabs=2.8x0.61

Maximum working voltage	250V ac	Maximum temperature	100°C
Current rating	5A	Housing	PolycarbonateBlack

209021

Mftrs.		Price Each			
List No.	Order Code	1+	50+	250+	500+
L1932	314-997				

### Interlocking Modular Multi-Tab 16A



120-6594 121-1488 120-6593  
H=29, W=11, D=38 (per module), Fixing holes=3.5 diax11.3 pitch

- 16A chassis mounting, interlocking barrier type terminal block system
- Easily stacked, single pole units to provide required number of ways
- Units made up of either three or six 6.3 x 0.8mm tabs and a 4mm connecting screw

Maximum working voltage	380V ac	Housing	NylonWhite Nylon
Current rating	16A	Screw terminations	M4 Pozidriv
Maximum temperature	120°C		

209023

	Order Code	Price Each				
		1+	10+	100+	250+	500+
Six tab	121-1488					
Three tab+one M4 screw	120-6593					
<b>Order Multiple=2</b>		2+	10+	100+	250+	500+
<b>End Plate</b>						
(1 required per block)	120-6594					

### Interlocking Multi-Tab 16A



- A 16 amp barrier type block
- Incorporates three 6.3 x 0.8mm brass terminals, with one M4 screw connection per pole.

H=24, W=37, Tab size=6.35x0.8  
Fixing centres (3 pole)=44,  
4 pole=55)x4.5 dia

Maximum working voltage	380V ac	Maximum temperature	120°C
Current rating	16A	Housing	Glass Filled NylonWhite
Screw terminations	M4 Pan head slotted		

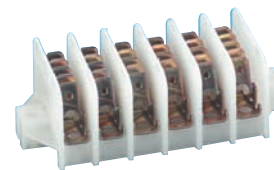
227343

No. of Ways	Total Length	Order Code	Price Each			
			1+	25+	50+	100+
3	52	117-8385				
4	63	117-8387				

### Distribution Connector Block



3 and 6 Pole connectors



- Tab style connector block
- 3 & 6 pole versions
- Each pole comprises 5 terminals - 6.3 x 0.8
- Quick convenient method of power distribution within racks and Cabinets
- Screw mounting
- Approvals: UL Recognised

Contact material	Steel	Voltage rating	400V
Contact plating	Zinc	Material	polyamide
Current rating	16A	Working temp	100°C

239252

No. of Ways	Mftrs.		Price Each			
	List No.	Order Code	1+	10+	50+	100+
3	1195350003-F	117-0362				
6	1195350006-F	117-0361				

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### 63 Series - 25A



- .438" pitch single row barrier strip for PCB mounting
- 600 volt, 25 amp, UL and CSA Recognised
- Economical low power alternative to high power 66 series

Current rating	25A @ 600V 12AWG	Insulation resistance	>MΩ
Wire range	24 to 12AWG (0.2 - 3.3)mm <sup>2</sup>	Housing	UL94V-0
Maximum temp.	110°C	Terminals	Brass, Tin / Lead plated
Withstand voltage	10500V	Screws	Steel, Zinc Chromate plated

230082

No. of Ways	Mftrs.		Price Each			
	List No.	Order Code	1+	25+	100+	250+
2	38630-7802	997-4075				
3	38630-7803	997-4083				
4	38630-7804	997-4091				
5	38630-7805	997-4105				
6	38630-7806	997-4113				
8	38630-7808	997-4121				
10	38630-7810	997-4130				

### Double Row Terminal Blocks - 30A



- .563" Pitch
- Screw Construction

Current rating	30A
Wire range	14 to 12AWG
Terminals	Brass Plated
Screws	Brass

490877

No. of Ways	Mftrs.		Price Each		
	List No.	Order Code	1+	25+	100+
<b>300V</b>					
2	602-GP-2	142-7847			
4	602-GP-4	142-7849			
6	602GP 06	142-7850			
8	602-GP-8	142-7851			
10	602-GP-10	142-7852			
12	602-GP-12	142-7853			
14	602-GP-14	142-7855			
<b>600V</b>					
4	672-GP-4	142-7901			
6	672-GP-6	142-7902			
8	672-GP-8	142-7903			
12	672-GP-12	142-7905			
16	672-GP-16	142-7906			
20	672-GP-20	142-7909			

# Trident Series

One interchangeable contact design for a versatile range of plastic and metal connectors



## Why customers choose ITT's Cannon Trident Series

- Interchangeable contacts between all series
- Comprehensive range of contact types, plating and wire sizes
- Mixed power and signal layouts
- PCB versions available
- Low total cost of ownership with easy assembly and disassembly



### One Trident contact system

The stamped and machined contacts are interchangeable between all product lines. No insertion tool and only one extraction tool are needed.

### Bayonet coupling

Bayonet coupling provides improved vibration resistance for 100% application reliability in harsh environments.

### Easy assembly and removal

The acceptance of both stamped and machined contacts make assembly and removal easy and cost-effective.



### Power and signal layouts

Efficiency and cost savings with a variety of layouts for the need of power and signal transfers in one connector for diverse applications



### IP 67 sealing

The rubber grommet enables IP 67 sealing and low total cost of ownership through an easy assembly and no need for additional parts.



### High voltage connectors

Trident connectors can be used up to 250 V AC. The new VDE-certified high voltage series enables safe power transmission with up to 500 V AC.



*Farnell Element 14 is a fully authorised distributor of ITT's Cannon connectors.*

Visit our website at [www.ittcannon.com](http://www.ittcannon.com)  
ITT Interconnect Solutions  
Cannon, VEAM, BIW Connector Systems © 2012 ITT Corporation.



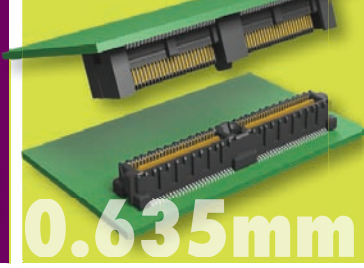
# ITT

ENGINEERED FOR LIFE

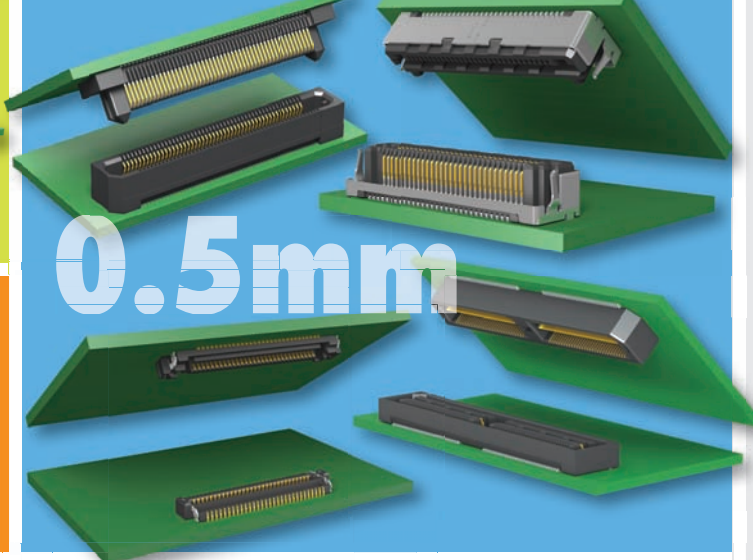
0.4mm



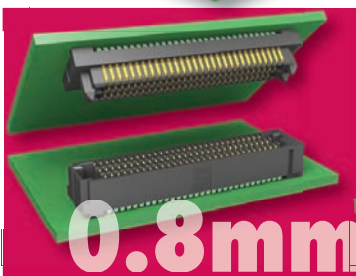
0.635mm



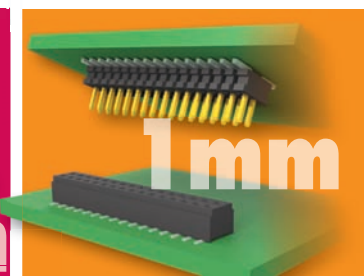
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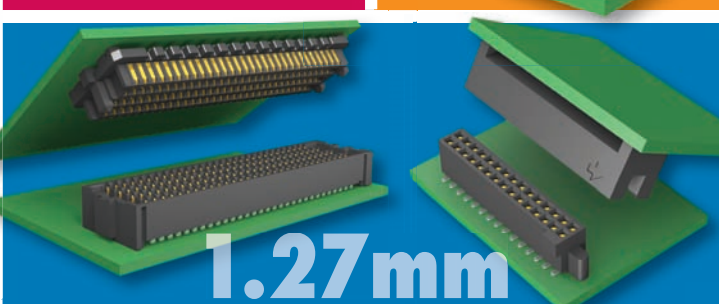
0.8mm



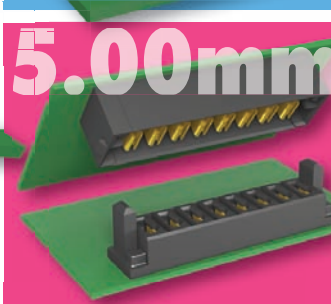
1mm



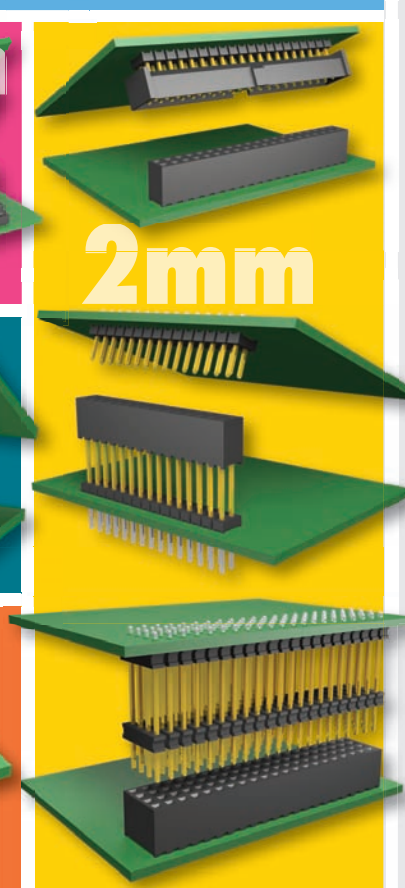
1.27mm



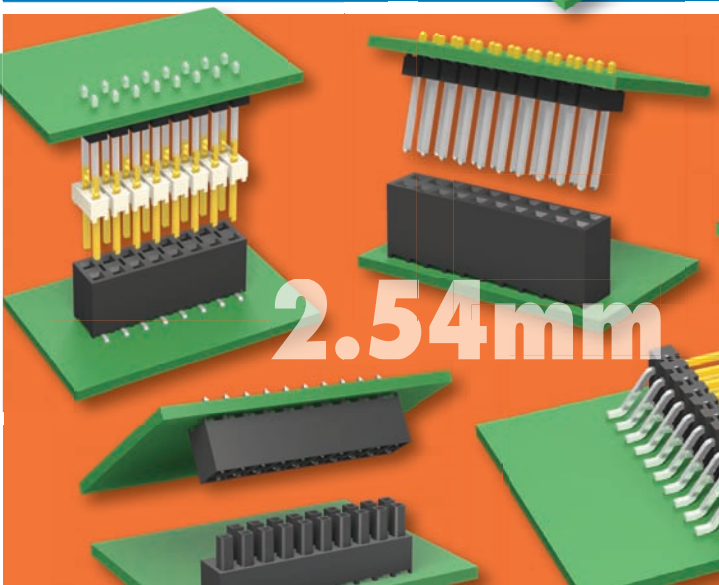
5.00mm



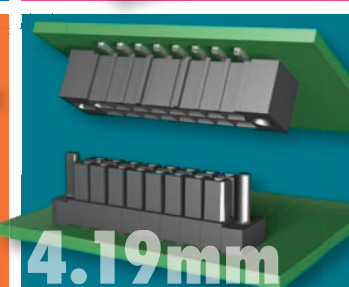
2mm



2.54mm



4.19mm



## Board Stacking Interconnect Systems

Samtec offers the industry's widest variety of micro pitch strips, ground plane connector strips, high density arrays and power interconnects for board-to-board applications.

Surface mount, through-hole and right angle orientations provide increased board stacking flexibility.

Guide posts, locking clips, alignment pins, friction locks, weld tabs, shrouds and many other options are available.