

Connectors - Signal & Data

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Value 'D' Range

Economy D-Sub Solder Bucket



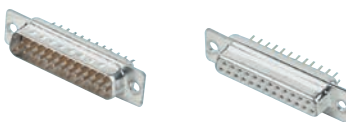
Current Rating	3A	DWV	1000V AC for 1 Min
Contact Resistance	30mΩ Max at DC 100mA	Contacts	Gold plated
Temperature range	-40°C to +85°C	Insulator	PBT and glass fibre UL94V-0
Insulation Resistance	5000MΩ Min	Housing	Steel - Nickel plated

240392

Order Multiple=10		Price Each			
No. of Ways	Order Code	10+	100+	500+	1K+

Plugs					
9	108-4672				
15	108-4673				
25	108-4674				
37	108-4675				
50	108-4676				
Sockets					
9	108-4678				
15	108-4679				
25	108-4681				
37	108-4682				
50	108-4683				

Economy D-Sub Straight PCB - Formed Pin



Current Rating	5A	Insulation Resistance	1000MΩ Min
Contact Resistance	5MΩ Max at 1A	DWV	500V AC for 1 Min
Temperature range	-40°C to +100°C	Contacts	Brass Gold plated

240398

Order Multiple=10		Price Each			
No. of Ways	Order Code	10+	100+	500+	1K+
Plugs					
9	108-4684				
15	108-4686				
25	108-4687				
37	108-4688				
50	108-4691				
Sockets					
9	108-4692				
15	108-4693				
25	108-4694				
37	108-4695				
50	108-4696				

Horizontal PCB Mount D-Sub Connectors

NEW



- Current rating: 3A
- Voltage rating: 250V
- Operating temperature: -40°C to 85°C
- Contact: Copper alloy
- Housing: Iron with nickel plating

618013

		Price Each		
No. of Ways	Order Code	10+	100+	500+
Plug				
9	184-8368			
15	184-8369			
25	184-8370			
37	184-8371			
Socket				
9	184-8372			
15	184-8373			
25	184-8374			
37	184-8375			

Value 'D' Range - continued

Economy D-Sub - Formed Pin 90° PCB with Boardlocks



Current Rating	5A	Insulation Resistance	1000MΩ Min
Contact Resistance	30MΩ Max at 1A	DWV	1000V AC for 1 Min
Temperature range	-55°C to +105°C	Contacts	Brass Selective Gold plated

240399

Order Multiple=10		Price Each			
No. of Ways	Order Code	10+	100+	500+	1K+
Plugs					
9	108-4697				
15	108-4698				
25	108-4699				
37	108-4700				
Sockets					
9	108-4701				
15	108-4702				
25	108-4703				
37	108-4704				

Specifications:-
Contact Material
Current Rating
Shell Material
Contact Resistance
Insulator Material
Operating Temp.

Copper Alloy
5A
Steel
10mohm
Thermoplastic
-55°C to 125°C

Contact Plating
Withstanding Voltage
Shell Plating
No. of Mating Cycles
Flammability Rating

Gold
1250VAC
Tin
200
UL94V-0

601849

No. of Ways	Shell Mfrs. Size List No.	Order Code	1+	10+	50+	100+
Plugs, Solder Cup Termination						
9	DE DE-9P-K87	176-0323				
15	DA DA-15P-K87	176-0325				
25	DB DB-25P-K87	176-0326				
37	DC DC-37P-K87	176-0327				
50	DD DD-50P-K87	176-0328				
Sockets, Solder Cup Termination						
9	DE DE-9S-A197	176-0329				
15	DA DA-15S-A197	176-0330				
25	DB DB-25S-A197	176-0331				
37	DC DC-37S-A197	176-0332				
50	DD DD-50S-A197	176-0333				
Plugs, PCB, Straight, Solder Termination						
9	DE DE-9P-OL2-K87	176-0334				
15	DA DA-15P-OL2-K87	176-0335				
25	DB DB-25P-OL2-K87	176-0337				
37	DC DC-37P-OL2-K87	176-0338				
50	DD DD-50P-OL2-K87	176-0339				
Sockets, PCB, Straight, Solder Termination						
9	DE DE-9S-OL2-A197	176-0340				
15	DA DA-15S-OL2-A197	176-0341				
25	DB DB-25S-OL2-A197	176-0342				
37	DC DC-37S-OL2-A197	176-0343				
50	DD DD-50S-OL2-A197	176-0344				
Plugs, PCB, R/A, Solder Termination						
9	DE DE-9P-1A7N-K87	176-0345				
15	DA DA-15P-1A7N-K87	176-0346				
25	DB DB-25P-1A7N-K87	176-0347				
37	DC DC-37P-1A7N-K87	176-0349				
50	DD DD-50P-1A7N-K87	176-0351				
Sockets, PCB, R/A, Solder Termination						
9	DE DE-9S-1A7N-A197	176-0352				
15	DA DA-15S-1A7N-A197	176-0353				
25	DB DB-25S-1A7N-A197	176-0354				
37	DC DC-37S-1A7N-A197	176-0355				
50	DD DD-50S-1A7N-A197	176-0356				

Commercial 'D' Range

M-Series Standard D-Sub



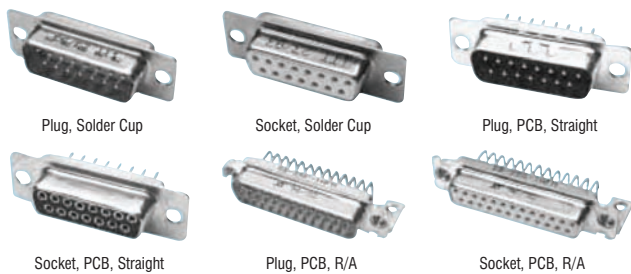
- Current rating: 5A
- Shell material: Steel
- Shell plating: Nickel
- Contact material: Brass
- Contact plating: Gold flash

NEW

660155

No. of Ways	Shell Mfrs. Size List No.	Order Code	1+	10+	50+	100+
Plugs - Vertical - Solder Cup						
9	DE 172-E09-103R001	212-4460				
15	DA 172-E15-103R001	212-4465				
25	DB 172-E25-103R001	212-4469				
Plugs - Vertical - THT						
9	DE 172-E09-113R001	212-4461				
15	DA 172-E15-113R001	212-4466				
25	DB 172-E25-113R001	212-4470				
Socket - Vertical - Solder Cup						
9	DE 172-E09-203R001	212-4462				
15	DA 172-E15-203R001	212-4467				
25	DB 172-E25-203R001	212-4471				
Socket - Vertical - THT						
9	DE 172-E09-213R001	212-4463				
15	DA 172-E15-213R001	212-4468				
25	DB 172-E25-213R001	212-4472				

Original 'D' Series



- High performance commercial class connectors
- DIN 41652
- Solder cup / solder Termination
- Machined contacts

Commercial 'D' (Formed Pin)



- Solder bucket, right angled and PCB termination styles
- Solder bucket and 90° contacts are stamped and formed
- 90° style features a 2.54mm spacing between contact rows and screwlocks
- Suitable for applications in instrumentation, computer interfacing, process control and professional electrical equipment

Contact rating	5A @70 °C	Housing Insulator	Steel, yellow passive over Zinc plating
Contact resistance	15mΩmax	Contacts	UL94V-0
Working voltage	300V dc/ac peak	Terminations	Formed Copper Alloy
Temperature range	-55°C to +105°C		Solder Bucket - Tinned
Mating cycles	100		PCB - gold plated

209912

Solder Bucket

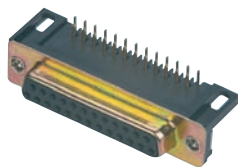


Mfrs. List No.	SDE9P = 150-808, SDE9S = 150-812,	SDA15P = 150-809, SDC37P = 150-811,	SDC37P = 150-811, SDC37S = 150-815
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209923

Order Multiple=5		Price Each					
No. of Ways	Order Code	5+	25+	100+	250+	500+	1K+
Plugs							
9	150-808						
15	150-809						
25	150-810						
37	150-811						
Sockets							
9	150-812						
15	150-813						
25	150-814						
37	150-815						

90° PCB



Mfrs. List No.	SDE9PN = 150-816, SDE9SN = 150-820,	SDA15PN = 150-817, SDA15SN = 150-821,	SDB25PN = 150-818, SDC37SN = 150-823	209934
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No of Ways	Order Code	1+	25+	100+	250+	500+	1K+
Plugs							
9	107-5281	●					
15	107-5282	●					
25	107-5283	●					
37	107-5284	●					
Sockets							
9	107-5285	●					
15	107-5286	●					
25	107-5288	●					
37	107-5289	●					

90° PCB with Screwlocks



Mfrs. List No.	SDES9PN = 107-5243 SDCS37PN = 107-5246 SDBS25SN = 107-5249	SDES9PN = 107-5244 SDES9SN = 107-5247 SDCS37SN = 107-5250	SDBS25PN = 107-5245 SDAS15SN = 107-5248	209947
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No of Ways	Order Code	1+	25+	100+	250+	500+
Plugs						
9	107-5243	●				
15	107-5244	●				
25	107-5245	●				
37	107-5246	●				
Sockets						
9	107-5247	●				
15	107-5248	●				
25	107-5249	●				
37	107-5250	●				

ZD Connectors

Solder Cup & PCB



Solder Cup

PCB

- Secure Blind mating
- Compatible with all other D subminiature series
- Glass filled thermoplastic insulator, UL94V-0
- Class 3

Contact Rating	5A 60°C	Housing Insulator	Steel, tin plating, UL94V-0
Contact Resistance	20mW Max.	Male Contacts	Brass
Working Voltage	350V dc/ac peak	Female Contacts	Phosphor Bronze
Temperature Range	-55°C to +105°C	Contact Plating	Gold over Nickel
Mating Cycles	50		

475165

No. of Mfrs. Ways List No.	Order Code	1+	25+	100+	250+	500+
Solder Cup Plugs						
9	ZDE9P	134-8011	●			
15	ZDA15P	134-8013	●			
25	ZDB25P	134-8014	●			
37	ZDC37P	134-8015	●			
Solder Cup Sockets						
9	ZDE9S	134-8016	●			
15	ZDA15S	134-8017	●			
25	ZDB25S	134-8018	●			
37	ZDC37S	134-8019	●			
90°C PCB Plugs						
9	ZDE9P1AKN-146	134-8020	●			
15	ZDA15P1AKN-146	134-8021	●			
25	ZDB25P1AKN-146	134-8022	●			
37	ZDC37P1AKN-146	134-8023	●			

No. of Mfrs. Ways List No.	Order Code	1+	25+	100+	250+	500+
90°C PCB Sockets						
9	ZDE9S1AKN-146	134-8025	●			
15	ZDA15S1AKN-146	134-8026	●			
25	ZDB25S1AKN-146	134-8027	●			
37	ZDC37S1AKN-146	134-8028	●			

Straight PCB (Turned Pin)



Mfrs. List No.	SDE9POL = 1340811, SDC37POL = 1340814, SDBS25SOL = 1075155,	SDA15POL = 1340812, SDE9POL = 1210827, SDC37SOL = 1075156,	SDB25POL = 1340813, SDA15SOL = 1340816,	209958
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No of Ways	Order Code	1+	25+	100+	250+	500+	1K+
Plugs							
9	134-0811	●					
15	134-0812	●					
25	134-0813	●					
37	134-0814	●					
Sockets							
9	121-0827	●					
15	134-0816	●					
25	107-5155	●					
37	107-5156	●					

TDE Series



Straight PCB D-Sub Connectors with Boardlocks



A new range of economical D-Sub connectors with a high level of performance and standard features.

- Boardlocks as standard
- Gold plated contacts
- Choice of 4-40 Threaded inserts or 4-40 female screwlocks

- Front shell Tin plated steel
- UL Listed

Contact material - Plug	Brass	Temperature range	-55 to +105
Contact material - Socket	Phosphor Bronze	Dielectric withstand voltage	500V
Contact plating	Gold	Housing	Black Thermoplastic
Insulation resistance			

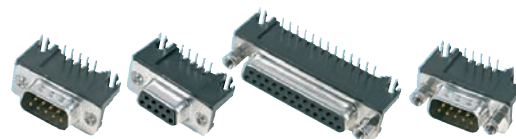
338945

No. of Ways	Order Code	1+	25+	50+	250+
Plugs with boardlocks					
With Threaded Inserts					
9	508-1932	●			
25	508-1956	●			
With Female Screwlocks					
9	508-1970	●			
15	508-1981	●			
25	508-1993	●			
37	508-2006	●			
Sockets with Boardlocks					
With Threaded Inserts					
9	508-2018	●			
15	508-2020	●			
25	508-2031	●			
With Female Screwlocks					
9	508-2055	●			
15	508-2067	●			
25	508-2079	●			
37	508-2080	●			

TDE Series European Footprint



90° PCB D-Sub Connectors with Boardlocks



- European standard PCB footprint in accordance with DIN 41652 variant 2
- Choice of 4-40 threaded inserts or female screwlocks
- Board locks included as standard
- UL Recognised

Commercial 'D' Range - continued

TDE Series European Footprint - continued

90° PCB D-Sub Connectors with Boardlocks - continued

Current Rating	5A	Contacts	Brass, Gold plated
Dielectric Strength	500V DC for 2 Min	Front Shell	Steel, Tin plated
Insulation Resistance	1000MΩ Min	Housing	Black Thermoplastic
Temperature Range	-55°C to +105°C	Flammability	UL94V-0

383301

Mfrs. List No.	No. of Ways	Order Code	Price Each			
			1+	25+	50+	250+
Plugs with boardlocks						
With Threaded Inserts						
1-1634580-2	9	839-1246				
1-1634581-2	15	839-1254				
1-1634582-2	25	839-1262				
With Female Screwlocks						
3-1634580-2	9	839-1327				
3-1634581-2	15	839-1335				
3-1634582-2	25	839-1343				
Sockets with Boardlocks						
With Threaded Inserts						
1-1634584-2	9	839-1289				
1-1634585-2	15	839-1297				
1-1634586-2	25	839-1300				
With Female Screwlocks						
3-1634584-2	9	839-1360				
3-1634585-2	15	839-1378				
3-1634586-2	25	839-1386				
3-1634587-2	37	839-1394				

D*U Series with Crimp Style Removable Contacts



Plug



Socket

- Insulation support contacts fully recessed in insulation after assembly
- Flame retardant insulators
- D*U connectors operate in temperatures up to 120°C
- Fully interchangeable with all Cannon D connectors

Specifications:-

Contact Material	Copper Alloy (Machined)	Contact Plating	Gold over Nickel (Machined)
Current Rating	5A	Withstanding Voltage	1500VAC
Shell Material	Steel	Shell Plating	Zinc with Yellow Chromate
Insulator Material	Thermoplastic	Flammability Rating	UL94V-0

602166

No. of Ways	Shell Size	Mfrs. List No.	Order Code	Price Each			
				1+	10+	50+	100+
Plugs							
9	DE	DEU-9P-K87-FO	176-0357				
15	DA	DAU-15P-K87-FO	176-0358				
25	DB	DBU-25P-K87-FO	176-0359				
37	DC	DCU-37P-K87-FO	176-0360				
50	DD	DDU-50P-K87-FO	176-0362				
Sockets							
9	DE	DEU-9S-A197-FO	176-0363				
15	DA	DAU-15S-A197-FO	176-0364				
25	DB	DBU-25S-A197-FO	176-0365				
37	DC	DCU-37S-A197-FO	176-0366				
50	DD	DDU-50S-A197-FO	176-0367				
Machined Crimp Contact							
Pin	20-24 AWG	030-1952-000	176-0370				
Crimp Tools							
Stamped Contact Tool	CCT-D*U-5-GB	176-0371		1+			
Machined Contact Tool	M22520-2-01	176-0372					
Locator Plate for machined contacts							
	L3198-20HDL/614958	176-0374		1+	10+	50+	100+



TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com

Crimp 'D' (Formed Pin)



Socket

Plug



Contacts

- A range of crimp connectors with rear insert contacts
- Connectors and contacts are ordered separately
- Suitable for applications where partial loading is required.

Contact rating	4A @70 °C	Mating cycles	100
Contact resistance	10mΩmax	Housing	
Working voltage	500V dc/ac peak	Insulator	Thermoplastic, UL94V-0
Temperature range	-55°C to +105°C	Contacts	Formed Copper Alloy

Suitable wire sizes:

24/28AWG, 0.08-0.22²/0.2 or 10/0.1 /24AWG, 0.08-0.52²/0.2 or 16/0.2

Mfrs. List No.	DEC9P = 151-228, MP650-16 = 1206625 DBS25S = 151-234, MP649-06 = 1206623	DAC15P = 151-229, DEC9S = 151-232, DCC37S = 151-235 MP648-16 = 1206624	DB25P = 151-230, DAC15S = 151-233, MP647-06 = 1206622,
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210010

No of Ways	Order Code	Price Each				
		1+	50+	100+	250+	500+
Plug Housings						
9	107-5190					
15	151-229					
25	151-230					
37	107-5302					
Socket Housings						
9	107-5191					
15	151-233					
25	151-234					
37	151-235					
Crimp Contacts (50 Per Pack)						
24/28 AWG Pin	120-6622	1+	5+	10+	50+	
20/24 AWG Pin	120-6623					
24/28 AWG Socket	120-6624					
20/24 AWG Socket	120-6625					

Tooling for Crimp 'D'



Mfrs. List No. MP600HD = 151-266

224273

	Order Code	Price Each
Crimp Tool	151-226	

Industrial 'D' Range

Standard and High Density D-SUB



MIL-C-24308 and MIL-C-39029

- 3.05mm scw mounting holes
- Shell material: Steel
- Shell plating: Zinc
- Contact material: Copper
- Contact plating: Gold

NEW



660216

No. of Ways	Shell Size	Mfrs. List No.	Order Code	Price Each			
				1+	10+	50+	100+
Standard Plug							
9	DE	1757819-1	207-6140				
15	DA	1757819-2	207-6141				
25	DB	1757819-3	207-6142				
37	DC	1757819-4	207-6143				
50	DD	1757819-5	207-6144				

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
Standard Socket						
9	DE 1757820-1	207-6145				
15	DA 1757820-2	207-6146				
25	DB 1757820-3	207-6148				
37	DC 1757820-4	207-6149				
50	DD 1757820-5	207-6150				
High Density Plug						
15	DE 1757823-1	207-6151				
26	DA 1757823-2	207-6152				
44	DB 1757823-3	207-6153				
62	DC 1757823-4	207-6154				
78	DD 1757823-5	207-6155				
High Density Socket						
15	DE 1757824-1	207-6156				
26	DA 1757824-2	207-6157				
44	DB 1757824-3	207-6158				
62	DC 1757824-4	207-6161				
78	DD 1757824-5	207-6162				
Crimp Contacts						
24AWG to 20AWG	Pin 205089-1	206-3615				
24AWG to 20AWG	Socket 205090-1	165-3860				
28AWG to 22AWG	Pin 204370-2	207-6163				
28AWG to 22AWG	Socket 204351-1	207-6164				

Amplite PCB Mount Vertical Industrial

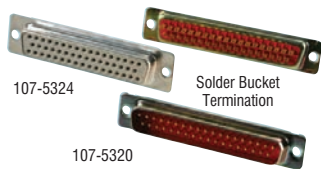


- Intermateable with industry standard products
 - PCB boardlocks
- Current Rating: 6A
Housing: Glass Filled Polyester, Black, UL94V-0
Shell: Steel, Tin plated
Contacts: Phosphor Bronze, Gold plated

451150

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	+
Straight Plug with 4-40 Threaded Inserts							
9	1-338309-2	341-6847					
15	1-338310-2	341-6860					
Straight Plug with 4-40 Female Screwlocks							
9	3-338309-2	341-6859					
15	3-338310-2	128-4328					
25	3-338311-2	341-6896					
Straight Socket with 4-40 Threaded Inserts							
9	1-338313-2	341-6902					
15	1-338314-2	128-4330					
25	1-338315-2	341-6951					
37	1-338316-2	128-4331					
Straight Socket with 4-40 Female Screwlocks							
9	3-338313-2	341-6914					
15	3-338314-2	341-6938					
25	3-338315-2	341-6963					
37	3-338316-2	128-4333					

Turned Pin



Note: 50 way plug and socket have white insulator

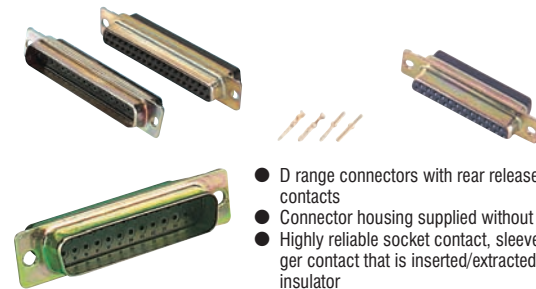
- Contact rating: 6.5A @70 °C
Contact resistance: 10mΩmax
Working voltage: 500V dc/ac peak
Breakdown voltage: V dc
Temperature range: -55°C to +105°C
Environmental: 55/105/21 plus industrial atmosphere specifications to **BTD23099A**
Mating cycles: 500
- Housing: Steel, yellow passivate over zinc plating
Insulator: Two Piece Polyester, UL94V-0
Contacts: Turned Copper Alloy

210105

No. of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+	500+
Solder Bucket Plugs								
9	DE9P	107-5318						
15	DA15P	107-5319						
25	DB25P	315-497						
37	DC37P	107-5320						

No. of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	250+	500+
Solder Bucket Sockets								
9	DE9S	107-5321						
15	DA15S	107-5322						
25	DB25S	107-5323						
37	DC37S	107-5193						
			1+	25+	50+	100+	250+	500+
Male								
9	DE9P	107-5318						
15	DA15P	107-5319						
25	DB25P	315-497						
37	DC37P	107-5320						
50	DD50P	120-6824						
Female								
9	DE9S	107-5321						
15	DA15S	107-5322						
25	DB25S	107-5323						
37	DC37S	107-5193						
50	DD50S	107-5324						

D*A Range (Crimp Contacts)



- D range connectors with rear release crimp snap in contacts
- Connector housing supplied without contacts loaded
- Highly reliable socket contact, sleeveless, spring finger contact that is inserted/extracted from the rear of insulator
- Ideal for selective loaded contacts application

Contact rating	A 55	Temperature range	-55°C to +120°C		
Contact resistance	8mohm max	Mating cycles	500 (performance Class 2 DIN41652)		
Working Voltage	350V	Housing	Steel		
Breakdown Voltage	1500VDC	Insulator	Two Piece Polyester, UL94V-0		
Plug Housings	Mfrs. List no.	Order Code	Socket Housings	Mfrs. List no.	Order Code
9 Pole	DEA9PK87F0.	134-2694	9 Pole	DEA9SA197F0	134-2695
15 Pole	DAA15P-K87-F0	134-2696	15 Pole	DAA15S-A197-F0	134-2697
25 Pole	DBA25PK87F0	134-2698	25 Pole	DBA25SA197F0.	134-2699
37 Pole	DCA37P-K87-F0	134-2701	37 Pole	DCA37SA197F0	134-2702
50 Pole	DDA50P-K87-F0	134-2703	50 Pole	DDA50SA197F0	134-2704
Open Crimps			Mfrs. List No.	Order Code	
Pin contact 0.08-0.22mm ² (26-28 AWG)-pack of 100			980-2000-925	156-0031	
Socket contact 0.08-0.22mm ² (26-28 AWG)-pack of 100			980-2000-926	156-0033	
Barrel Crimps					
Pin crimp 0.6-0.22mm ² (20-24AWG)-pack of 25			980-2000-924	156-0032	
Socket crimp 0.6-0.23mm ² (20-24AWG)-pack of 25			980-2000-923	156-0034	

209665

No. of Ways	Order Code	1+	10+	50+	100+	250+	500+
Plug Housings							
9	134-2694						
15	134-2696						
25	134-2698						
37	134-2701						
50	134-2703						
Socket Housings							
9	134-2695						
15	134-2697						
25	134-2699						
37	134-2702						
50	134-2704						
Open Crimp (100 Per Pack)							
Pin	156-0031						
Socket	156-0033						
Barrel Crimp (25 Per Pack)							
Pin	156-0032						
Socket	156-0034						

Tooling



105-837

Industrial 'D' Range - continued

Tooling - continued

Mfrs. List No. CIET-20-HD= 146-292
 L22520-02-01 = 105-837, L22520-HDL = 105-838, SK2/2= 561-447

Note: Order Codes 105-837 and 105-838 must be purchased as a pair to enable a crimp operation.

209666

	Order Code	Price Each		
		1+	5+	10+
Insertion/Extraction tool	146-292			
Barrel crimp tool	105-837			
Locator plate	105-838			
Crimp positioner	561-447			

Mixed Signal 'D' Connectors

Mixed Power DW Series



109-7934 109-7940 309-0176

- Developed for industrial and tel-comms applications
- Solder contacts
- Solder bucket connectors supplied pre-loaded with signal contacts and holes for power or coax contacts
- Right angled PCB connectors supplied pre-loaded with signal and power contacts
- Right angled PCB coax contacts available
- 20A and 40A power contacts available

Shell	Tin Plate	Dielectric voltage	1 KV rms
Insulation	Thermoplastic, UL94V-0	Contact resistance	≤7.3Ω
Contacts	Copper Alloy, Tin and Gold over Nickel	Mating cycles	500min
Current rating	Signal contacts 7.5 power contacts 20A/40A		

210055

No. of Ways	Order Code	Price Each				
		1+	10+	50+	100+	250+

Mixed Power D Plug, Solder

3	109-7930				
7	109-7931				
13	109-7932				
15	109-7934				
8	109-7935				

Mixed Power D Socket, Solder

3	109-7937				
7	109-7938				
13	109-7939				
17	109-7940				
8	109-7941				

Power Contacts

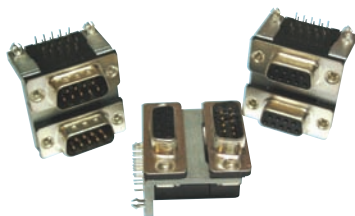
Pin12AWG	109-7943				
Socket12AWG	109-7944				
Pin8AWG	109-7946				
Socket8AWG	109-7947				

Stackable 'D' Connectors



Stackable D Subs

90° PCB Mount



- Plug/plug, Socket/socket & plug/socket combinations
- 4-40 UNC threaded inserts
- Intermateable with other D-sub connectors
- 9, 15, 25 and 37 way versions available
- Housing: UL94V-0 rated thermoplastic
- Boardlock retention

446975

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+

Stacked Plug / Plug

2 x 9	1734279-3	122-5684			
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Stacked Socket / Socket

2 x 9	1734285-3	122-5689			
2 x 15	1-1734285-3	122-5690			
2 x 25	2-1734285-3	122-5691			

Stacked Plug / Socket

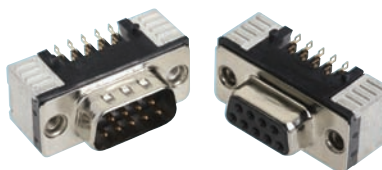
2 x 9	1734282-3	122-5693			
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Surface Mount 'D' Connectors

Surface Mount D-Sub Connectors



Pushing Performance



- Controlled centre of gravity provides anti toppling properties
- "No insertion force" pegs for PCB positioning
- Provided with a flat area for use in vacuum pick and place equipment
- Mounting options are 4-40 UNC and M3 threaded inserts and screwlocks
- Performance level: PL3 & PL2
- RoHS compliant

Contacts	Gold plated	Housing	LCP
Front Shell	Steel, Nickel plated	Flammability	UL94V-0

462414

Mfrs. List No.	No. of Thread Ways	Type	Order Code	Price Each			
				1+	25+	50+	250+

Plugs

With Screwlock							
09 55 166 6813741	9	4-40 UNC	SMD 134-2295				

Sockets

With Threaded Insert							
09 55 156 6611741	9	3mm	SMD 134-2296				
09 55 156 6612741	9	4-40 UNC	SMD 134-2298				

Sockets

With Screwlock							
09 55 156 6613741	9	4-40 UNC	SMD 134-2299				

EMI/RFI Shielded 'D' Connectors

Solder Bucket (Formed Contacts)



Tin and Dimple 'D'



- Tin & Dimple Shells
- Nickel plated solder buckets
- Gold plated formed contacts
- Glass filled P.B.T insulators

Contact rating	5A @25 °C	Working resistance	250V rms
Contact resistance	15mΩ max		

209848

Order Multiple=5	No. of Ways	Order Code	Price Each			
			5+	25+	100+	250+

Plugs

9	109-9046				
15	109-9047				
25	109-9049				
37	109-9051				

Sockets

9	109-9052				
15	109-9053				
25	109-9054				

Order Multiple=1		1+	25+	100+	250+
37	109-9055				

Economy 'D' Tin and Dimple (Formed Pin)



- Available in solder bucket or right angled and straight PCB termination
- Tinned shells and featuring dimpled plugs for enhanced electrical continuity
- Ideal for EMI/RFI applications
- Solder bucket and 90° contacts are stamped and formed for extra economy
- 90° features a 2.54mm spacing between contact rows
- Available with screwlocks and/or barb action boardlocks

Contact rating	3A @70°C	Housing	Steel, tin plating
Contact resistance	15mΩ max	Insulator	
Working voltage	350V dc/ac peak	Contacts	Formed Copper Alloy
Temperature range	-55°C to +105°C	Terminations	Solder Bucket - Tinned PCB - gold plated
Mating cycles	100		

210084

No. of Ways	Mfrs. List No.	Order Code	5+	25+	100+	250+	500+
Plugs							
9	SDE9PTD	150-726					
15	SDA15PTD	150-727					
25	SDB25PTD	150-728					
37	SDC37PTD	150-729					
Receptacles							
9	SDE9ST	150-730					
15	SDA15ST	150-731					
25	SDB25ST	129-7953					
37	SDC37ST	150-733					
50	SDD50STD	150-835					

Solder Bucket



Mfrs. List No. SDE9PTD = 150-726, SDB25PTD = 150-728, SDC37PTD = 150-729, SDD50PTD = 150-834, SDE92ST = 150-730, SDA15ST = 150-731, SDA15PTS = 150-727, SDD50ST = 150-835, SDB25ST = 150-732,

210085

No. of Ways	Order Code	5+	25+	100+	250+	500+	1K+
Plugs							
Order Multiple=5							
9	150-726						
15	150-727						
25	150-728						
Order Multiple=1							
37	150-729						
50	107-5189						
Sockets							
Order Multiple=5							
9	150-730						
15	150-731						
25	129-7953						
Order Multiple=1							
37	150-733						
50	150-835						

90° D-Sub Connectors

PCB Mount



A range of 90° D-Sub connectors with metal front shell, screwlocks and boardlocks

Contact material	Brass	Temperature range	-55°C To + 105°C
Contact plating	Gold Flash over Nickel	Dielectric withstand voltage	1000V
Contact resistance	15mohm	Insulator material	PBT (Polybutylene terephthalate) Glass fibre reinforced UL94V-0
Insulation resistance	5000Mohm		

239319

No. of Ways	Order Code	5+	50+	100+	500+
Plugs					
9	109-9289				
15	109-9290				
25	109-9291				
37	109-9293				
Sockets					
9	109-9294				
15	109-9295				
25	109-9296				
37	109-9297				

90° PCB - with Screwlocks and Boardlocks

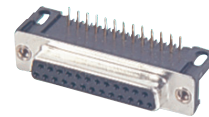


Mfrs. List No. SDEX9PNTD = 107-1806, SDAX15PNTD = 107-5266, SDBX25PNTD = 107-5267
SDCX37PNTD = 107-5268, SDEX9SNT = 107-5161, SDA15SNT = 107-5269
SDBX25SNT = 107-5270, SDCX37SNT = 107-5271

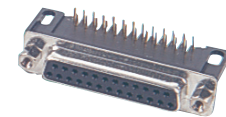
210086

No. of Ways	Order Code	1+	25+	100+	250+	500+	1K+
Plugs - Male							
9	107-1806						
15	107-5266						
25	107-5267						
37	107-5268						
Sockets - Female							
9	107-5161						
15	107-5269						
25	107-5270						
37	107-5271						
Male							
9	107-1806						
15	107-5266						
25	107-5267						
37	107-5268						
Female							
9	107-5161						
15	107-5269						
25	107-5270						
37	107-5271						

90° PCB - Available with or without Screwlocks



With threaded rivets



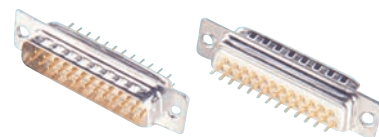
With screwlocks

Mfrs. List No. SDE9PNTD = 107-5252, SDA15PNTD = 107-5253, SDB25PNTD = 107-5254, SDC37PNTD = 107-5255, SDE9SNT = 107-5256, SDA15SNT = 107-5257, SDB25SNT = 107-5258, SDC37SNT = 107-5259, SDES9PNTD = 107-5260, SDAS15PNTD = 107-5261, SDBS25PNTD = 107-5262, SDCS37PNTD = 107-5264, SDAS15SNT = 107-5265, SDBS25SNT = 107-5157, SDCS37SNT = 107-5158

210087

No. of Ways	Order Code	1+	25+	100+	250+	500+	1K+
Without Screwlocks							
Plugs							
9	107-5252						
15	107-5253						
25	107-5254						
37	107-5255						
Sockets							
9	107-5256						
15	107-5257						
25	107-5258						
37	107-5259						
With Screwlocks							
Plugs							
9	107-5260						
15	107-5261						
25	107-5262						
Sockets							
9	150-746						
15	107-5265						
25	107-5157						
37	107-5158						

Straight PCB (Turned Pin)



Mfrs. List No. SDB25POLTD = 150-783, SDA15SOLT = 150-786

Mfrs. List No. SDB25POLTD = 150-783

EMI/RFI Shielded 'D' Connectors - continued

Straight PCB (Turned Pin) - continued

No. of Ways	Order Code	Price Each					
		1+	25+	100+	250+	500+	1K+
Plugs							
9	107-5272						
15	107-5273						
25	107-5274						
37	107-5276						
Sockets							
9	107-5277						
15	107-5278						
25	107-5279						
37	107-5280						

Bargain 'D' Tin and Dimple (Formed Pin)



- A quality range of tin and dimple 'D' connectors offering
- Excellent EMI/RFI screening via shell continuity dimples
- The pins and sockets are formed contact style.

Contact rating	6.5A @70°C	Housing	Steel, tin plating
Contact resistance	10mΩ max	Insulator	Two Piece Thermoplastic UL94V-0
Working voltage	125V ac	Contacts	Formed Copper Alloy
Temperature range	-55°C to +125°C		
Mating cycles	50		

Mfrs. list no. Plug 0967-2xx-5604 Socket 0967-2xx-4704 where xx=No of ways

No. of Ways	Order Code	Price Each				
		1+	10+	50+	100+	500+
Solder Bucket Plugs						
9	109-6858					
15	109-6859					
25	109-6860					
37	109-6861					
Solder Bucket Sockets						
9	109-6863					
15	109-6864					
25	109-6865					
37	109-6866					

D-Sub PCB Connectors Straight and 90° - Formed Pin



A range of High Performance D-sub connectors with stamped pins

- UL Recognised
- Class II performance - DIN 41652
- 4-40 UNC threaded insert flange and grounding boardlocks for improved continuity and mechanical strength
- Tinned and dimpled shells for excellent EMI shielding

Current rating	6.5A Max	Current rating	6.5A Max
Contact material	Copper Alloy	Contact material	Copper Alloy
Contact plating	Gold	Contact plating	Gold
Temp range	-55°C to +125°C	Contact resistance	≤10mΩ
Ins material	PBTP	Insulation resistance	≥10 ¹⁰ Ω
Shell material	Tinned Steel	Mating cycles	≥200

No. of Ways	Order Code	Price Each				
		1+	10+	50+	100+	500+
9	109-7056					
15	109-7057					
25	109-7058					
37	109-7059					
9	109-7060					
15	110-6813					
25	109-7061					
37	109-7062					
9	109-7063					
15	109-7065					
25	109-7066					

No. of Ways	Order Code	Price Each				
		1+	10+	50+	100+	500+
37	109-7067					
9	109-7068					
15	109-7069					
25	109-7070					
37	109-7071					

Solder Bucket - with Shielding Lugs



- Tin and dimple 'D' connectors with solder lugs attached to the shell
- Improved cable shield termination and EMI/RFI shielding
- The pins and sockets are formed contact style with solder bucket terminations.

Contact rating	5A @ 20°C	Housing	Steel, tin plating
Contact resistance	10mΩ max	Insulator	UL94V-0
Working voltage	350V dc/ac peak	Contacts	Formed Copper Alloy, Gold over Nickel Plating
Temperature range	-55°C to +105°C	Terminations	Tinned
Mating cycles	100		

Mfrs. List No. 110-3968 = DB25P064HTXLF 110-3968 = DB25P064HTXLF 110-3968 = DB25P064HTXLF
 110-3973 = DA15S064HTLF 110-3973 = DA15S064HTLF 110-3973 = DA15S064HTLF
 110-3975 = DC37S064HTLF 110-3975 = DC37S064HTLF

209783

No. of Ways	Order Code	Price Each				
		1+	10+	25+	100+	250+
Plugs						
9	110-3966					
15	110-3967					
25	110-3968					
37	110-3971					
Sockets						
9	110-3972					
15	110-3973					
25	110-3974					
37	110-3975					

Delta 'D' - with Boardlocks



- Straight PCB mounted tin & dimple
- Female screwlocks and locking lugs

Contact rating	5A max	Housing	Steel, bright tin plated
Working voltage	350V dc/ac peak	Insulator	Glass Filled Thermoplastic UL94V-0
Contact resistance	≥10mΩ max	Contacts	Phosphor Bronze, Gold Flash Over Nickel
Temperature range	-55°C to +125°C		
Mating cycles	300	Termination	

D09P24A4GV00LF=110-3907 D15P24A4GV00LF=110-3909 D25P24A4GV00LF=110-3911
 D37P24A4GV00LF=110-3912 D09S24A4GV00LF=110-3913
 D15S24A4GV00LF=110-3914 D25S24A4GV00LF=110-3915 D37S24A4GV00LF=110-3916

209996

No. of Ways	Order Code	Price Each				
		1+	10+	25+	100+	250+
Plugs						
9	110-3907					
15	110-3909					
25	110-3911					
37	110-3912					
Sockets						
9	110-3913					
15	110-3914					
25	110-3915					
37	110-3916					

Turned Pin Solder Bucket



- Gold plated machined contacts giving a minimum of 300 mating cycles.

Contact rating	6.5A @ 60°C	Insulation resistance	MΩ
Contact resistance	10mΩ max	Temperature range	-55°C to +105°C
Working voltage	500V dc/ac peak	Mating cycles	300

Housing Steel, tin plating
 Insulator Two Piece Polyester **UL94V-0**
 Contacts Turned Copper Alloy

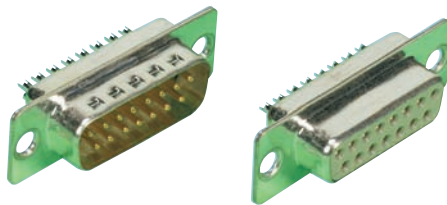
Terminations Tinned

Mfrs. List No.
 DE9PBDT = 107-5335, DA15PBDT = 107-5336, DB25PBDT = 107-5337, DC37PBDT = 107-5338,
 DE9SBTD = 107-5339, DA15SBTD = 107-5340, DB25SBTD = 107-5341,

209787

5 Per Pack		Price Per Pack					
No. of Ways	Order Code	1+	5+	20+	50+	100+	200+
Plugs							
9	107-5335						
15	107-5336						
25	107-5337						
37	107-5338						
Sockets							
9	107-5339						
15	107-5340						
25	107-5341						
		1+	5+	20+	50+	100+	200+
Male							
9	107-5335						
15	107-5336						
25	107-5337						
Female							
9	107-5339						
15	107-5340						
25	107-5341						
25	472-803						

Turned Pin 'D' Tin and Dimple



Contact rating 5A @ 60°C
 Contact resistance 10mΩ max
 Temperature range -55°C to +125°C
 Working voltage 125V dc/ac peak
 Mating cycles 50

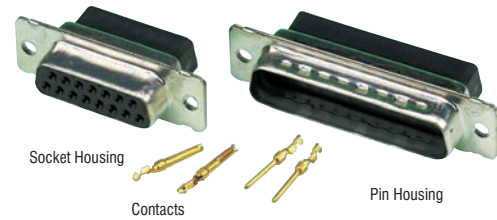
Housing Steel, tin plating
 Insulator Two Piece Thermoplastic, **UL94V-0**
 Contacts Turned Copper Alloy
 Terminations Tinned

Mfrs. List No. Plugs 0967-0xx-5604 Sockets 0967-0xx-4704 where xx = no of ways

210091

No. of Ways		Price Each					
Order Code	1+	10+	50+	100+	250+	500+	
Solder Bucket Plugs							
9	109-6848						
15	109-6851						
25	109-6852						
37	109-6853						
Solder Bucket Sockets							
9	109-6854						
15	109-6855						
25	109-6856						
37	109-6857						
		1+	10+	50+	100+	250+	500+
Male							
9	109-6848						
15	109-6851						
25	109-6852						
37	109-6853						
Female							
9	109-6854						
15	109-6855						
25	109-6856						
37	109-6857						

HDP-20 Crimp Snap-in contacts



- Lower cost commercial version of the military approved series
- Tin plated shells with grounding indents
- Low cost, high performance, precision formed crimp contacts
- Allows selective loading of contacts

Contact rating 7.5A
 Contact resistance 15mΩ max
 Dielectric withstand voltage 1KV ac min
 Temperature range -55°C to +105°C

Housing Insulator
 Contacts: Pin Socket

Steel, tin plating **UL94V-0**
 Phosphor Bronze

Mfrs. List No. 66507-9 = 593-205, 1-66506-0 = 593-242, 66504-9 = 593-230, 1-66507-0 = 177-6435, 66505-9 = 593-229, 1-66504-0 = 593-25, 66506-9 = 593-217, 1-6605-0 = 177-6447,

No. of Mfrs.		Price Each					
Ways	List No.	Order Code	1+	100+	250+	500+	1K+
Pin Housing							
9	205204-4	134-5138					
15	205206-3	134-5151					
25	207464-2	134-5175					
37	205210-3	134-5199					
Socket Housing							
9	205203-3	134-5230					
15	205205-2	134-5254					
25	207463-1	134-5278					
37	205209-2	105-5990					

209978

Order Multiple = 10		Price Each					
Wire Size	Order Code	10+	50+	100+	250+	500+	1K+
Crimp Pins							
28-24 AWG, 0.08-0.2mm ² (Sel. Gold)	593-205						
28-24 AWG, 0.08-0.2mm ² (Gold Flash)	177-6435						
24-20 AWG, 0.2-0.52mm ² (Sel. Gold)	593-217						
24-20 AWG, 0.2-0.52mm ² (Gold Flash)	593-242						
Crimp Sockets							
28-24 AWG, 0.08-0.2mm ² (Sel. Gold)	593-229						
28-24 AWG, 0.08-0.2mm ² (Gold Flash)	177-6447						
24-20 AWG, 0.2-0.52mm ² (Sel. Gold)	593-230						
24-20 AWG, 0.2-0.52mm ² (Gold Flash)	593-254						
		10+	50+	100+	250+	500+	1K+
Crimp Pins							
28240.08							
0.2	593-205						
28240.08							
0.2	177-6435						
24200.2							
0.52	593-217						
24200.2							
0.52	593-242						
Crimp Sockets							
28240.08							
0.2	593-229						
28240.08							
0.2	177-6447						
24200.2							
0.52	593-230						
24200.2							
0.52	593-254						

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 Log on, research, refine and design

EMI/RFI Shielded 'D' Connectors - continued

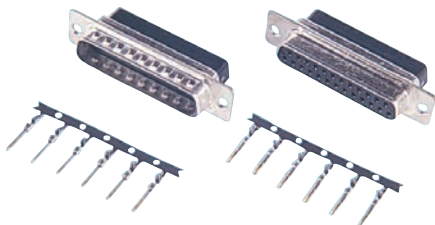
Tooling for HDP-20 Crimp 'D'



Mfrs. List No.	58448-2 = 134-5497,	91067-2 = 593-266,	209977
	Order Code	Price Each	1+
Pro-Crimper	134-5497		
Insertion/Extraction tool (24-20 AWG)	593-266		

Tyco Electronics
SDE Die and Tooling options available See Web

Crimp 'D' Tin and Dimple (Formed Pin)



- A range of Tin and Dimple D connectors with rear insert snap in contacts
- The connector housing is supplied without contacts (contacts ordered separately)
- The connectors are suitable for applications requiring less than the full population of pins or sockets.

Contact rating	4A @ 70°C	Housing Insulator	Steel, tin plating two piece thermoplastic, UL94V-0 PBT (Polybutylene terephthalate)
Contact resistance	10mΩ max		
Working voltage	V dc/ac peak		
Temperature range	-55°C to +125°C		
Mating cycles	50		

Plug Housings	Mfrs. List No.	Order Code	Socket Housings	Mfrs. List No.	Order Code
9 way	09 67 009 5601	109-6840	9 way	09 67 009 4701	109-6843
15 way	09 67 015 5601	109-6841	15 way	09 67 015 4701	109-6844
25 way	09 67 025 5601	109-6842	25 way	09 67 025 4701	109-6845
			37 way	09 67 037 4701	109-6846

Open Crimp		
Pin contact 0.25-0.56mm ² (24-20 AWG)- strip of 10	0967-000-8167	109-6876
Socket contact 0.25-0.56mm ² (24-20 AWG)- strip of 10	0967-000-8267	109-6877

No. of Ways	Order Code	1+	10+	50+	100+	250+	500+
Plug Housings							
9	109-6840						
15	109-6841						
25	109-6842						
Socket Housings							
9	109-6843						
15	109-6844						
25	109-6845						
37	109-6846						
Crimp Contacts(10 Per Strip)							
Pin							
500	109-6876						
Socket							
500	109-6877						

Tooling for Crimp 'D'



Mfrs. List No.	0999-000-0175 = 150-171,	0999-000-0171 = 150-172	210095
	Order Code	Price Each	1+
Crimp tool	150-171		
Insertion/extraction tool	150-172		

HDP-20 kits

Crimp Version



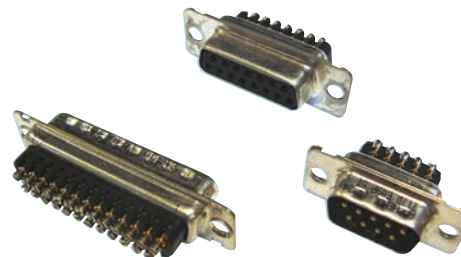
Metal cover: Steel over nickel, galvanized
 Insulation body: Polyamide UL94V-0
 Shielding plate: Steel, galvanized
 Covering cap: Polyester, black
 Lifting screws: Steel, galvanized

- HDP-20 male and female connector with metal cover, shielding plates, plastic covering cap, integral, jack screws
- Each kit contains:
 1 HDP20 plug connector
 Empty housing for crimped contacts
 1 inner and 1 outer shielding plate
 1 plastic covering cap
 2 jack screws
- **Note:** The crimping sleeve and crimping contacts must be ordered separately (see: crimping sleeves')

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
Crimped Version/Male Connector					
9	0-01658655-1	116-2471			
15	0-01658657-1	116-2472			
25	0-01658659-1	116-2473			
Crimped Version/Female Connector					
9	0-01658654-1	116-2474			
15	0-01658656-1	116-2475			
25	0-01658658-1	116-2476			
Crimp Contacts			10+	50+	100+
Male					
24 - 28 AWG	166294-1.	341-6823			
Female					
24 - 20 AWG	166291-1	341-6770			
Tooling			1+		
Crimp Tool	0-0169341-1	421-8127			
Insertion/Extraction Tool	91067-2	593-266			

Rewireable 'D' Connectors

Screw Termination D-Sub Series



- Easily wired without any specific tool - only a standard screwdriver is required
- Compatible with all standard hoods and accessories

Shells	Steel, Tin plated	Withstanding Voltage	1000V
Insulator	Glass Filled Thermoplastic, UL94V-0	Insulation Resistance	5000Mohm
Contacts	Brass, Gold over Nickel plating	Contact Resistance	5mohm
Current Rating	7.5A	Operating Temperature	-55°C to 85°C
Voltage Rating	300V	Mating Cycles	100

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+
Plug						
9	L717DE09PST	130-6750				
15	L717DA15PST	130-6751				
25	L717DB25PST	130-6752				
Socket						
9	L77DE09SST	130-6754				
15	L77DA15SST	130-6755				
25	L77DB25SST	130-6756				

Screw Termination D-Sub Series

Metallic Hood Kits



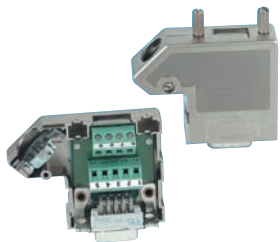
Kit includes connector and metallic hood.

No. of Mftrs.		Price Each			
Ways	List No.	Order Code	1+	10+	25+ 50+
Plug + Straight Cable Entry Hood Kit					
9	L717DE09PST3	130-6770			
15	L717DA15PST3	130-6771			
25	L717DB25PST3	130-6772			
Socket + Straight Cable Entry Hood Kit					
9	L77DE09SST3	130-6773			
25	L77DB25SST3	130-6775			
Plug + 45° Cable Entry Hood Kit					
9	L717DE09PST4	130-6776			
15	L717DA15PST4	130-6778			
Socket + 45° Cable Entry Hood Kit					
9	L77DE09SST4	130-6780			

451527

Re-Wireable D Connectors

Single Cable Entry



- Cable entry 45° from left or right
- Ideal for R&D, Prototyping, Multiple re-use
- Contacts clearly numbered
- Knurled fixing screws
- Integral cable clamp
- Shielded backshell accept 4mm to 10mm cable

Supplied complete with marking labels and instructions

Maximum Voltage	60V AC/DC	Cable Dia Max/Min	10mm to 4mm
Current Rating	1A	Wire Size AWG	26 to 16 AWG
Temperature Range	-20°C to +75°C	Housing	ABS-VO, metal-plated
Mating Cycles	≥50		

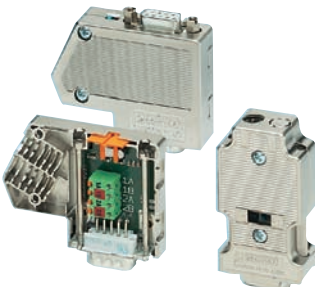
244041

No. Ways		Price Each			
Mftrs. List No.	Order Code	1+	10+	50+	100+
Plugs					
9	SUBCON 9/M-SH	121-6700			
15	SUBCON 15/M-SH	121-6702			
25	2761622	121-6706			
Sockets					
9	SUBCON 9/F-SH	121-6699			
15	2761596	121-6701			
25	2761619	121-6704			

BUS 'D' Connectors

Profibus Connector

Subcon Profibus



The Sub-D Series SUBCON Profibus is designed in particular for use in Profibus systems at up to 12 Mbits/s. It allows convenient and rapid connection of the incoming and outgoing bus cable in field conditions.

- Angled or axial quick-action connector
- With or without programming interface
- Connection via spring force terminal
- Terminating impedance can be connected
- Connector housing screened
- Max. cable diameter 8 mm
- cULus recognized (File No. E123528 Vol.5 Sec.3)

No. of ways:	9	Material, hoods:	ABS
Voltage, rated max.:	60V AC/DC	Protection class:	IP40
Current, rated:	1A	Fixing screws:	UNC4-40
Temperature range:	-20°C to +75°C	Termination:	Screw (16-26 AWG) Spring Cage Clamp (20-28 AWG)
Mating cycles:	≥200		
Cable-∅ max.:	8.4mm		

405887

Mftrs. List No.	Order Code	1+	5+	10+
Angled, Screw Termination				
2708232	169-7734			
Angled, Cage Clamp Termination				
2744348.	940-1326			
Angled + Programming Interface, Cage Clamp Termination				
2744403.	940-1334			
Axial, Cage Clamp Termination				
2744377.	940-1342			

Bus Connector for CAN Systems

Subcon CANbus



The SUBCON-CANbus connector can be used in accordance with ISO/DIN 11 898 for CAN bus systems up to 1 Mbit/s and SAFETY-P.

- Angled connector for CAN systems
- Connection via screw terminals
- Terminating impedance can be connected
- Screened connector housing

- Max. cable diameter 10 mm

No. of ways:	9	Wire size:	0.14-1.5mm ² solid 0.14-1.0mm ² stranded
Voltage, rated max.:	60V AC/DC	Material, hoods:	ABS, metallized
Current, rated:	1A	Protection class:	IP44
Temperature range:	-20°C to +75°C	Fixing screws:	UNC4-40
Mating cycles:	≥200		
Cable-∅ max.:	6/10mm		

405896

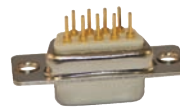
Mftrs.		Price Each		
Version	List No.	Order Code	1+	5+ 10+
Angled	2744694.	940-1350		

Waterproof 'D' Connectors

SEAL-D



IP67 D-Sub



NEW



- Current rating: 5A
- Contact plating: Gold flash
- Shell plating: Nickel
- Contact material: Brass
- Shell material: Steel

660240

No. of Shell Mftrs.		Price Each			
Ways	Size List No.	Order Code	1+	10+ 50+ 100+	
Standard - Plug - Solder Cup					
9	DE 772-E09-103R001	212-4494			
15	DA 772-E15-103R001	212-4498			
25	DB 772-E25-103R001	212-4502			
Standard - Plug - Vertical - THT					
9	DE 772-E09-113R001	212-4495			
15	DA 772-E15-113R001	212-4499			
25	DB 772-E25-113R001	212-4503			
Standard - Socket - Solder Cup					
9	DE 772-E09-203R001	212-4496			
15	DA 772-E15-203R001	212-4500			
25	DB 772-E25-203R001	212-4504			
Standard - Socket - Vertical - THT					
9	DE 772-E09-213R001	212-4497			
15	DA 772-E15-213R001	212-4501			
25	DB 772-E25-213R001	212-4505			
Standard - Plug - Right Angle - THT - 7.2mm from Board Edge					
9	DE 773-E09-113R001	212-4507			
15	DA 773-E15-113R001	212-4508			
25	DB 773-E25-113R001	212-4509			
Standard - Plug - Right Angle - THT - 9.4mm from Board Edge					
9	DE 774-E09-113R001	212-4510			
15	DA 774-E15-113R001	212-4511			
25	DB 774-E25-113R001	212-4512			
HD - Plug - Solder Cup					
15	DE 780-M15-103L001	212-4513			
26	DA 780-M26-103L001	212-4517			
44	DB 780-M44-103L001	212-4523			

Waterproof 'D' Connectors - continued

SEAL-D - continued

IP67 D-Sub - continued

No. of Ways	Shell Size	Mftrs. List No.	Order Code	1+	10+	50+	100+	Price Each
HD - Plug - Vertical - THT								
15	DE	780-M15-113R001	212-4514	●				
26	DA	780-M26-113R001	212-4519	●				
44	DB	780-M44-113R001	212-4524	●				
HD - Socket - Solder Cup								
15	DE	780-M15-203L001	212-4515	●				
26	DA	780-M26-203L001	212-4521	●				
44	DB	780-M44-203L001	212-4525	●				
HD - Socket - Vertical - THT								
15	DE	780-M15-213R001	212-4516	●				
26	DA	780-M26-213R001	212-4522	●				
44	DB	780-M44-213R001	212-4526	●				
HD - Plug - Right Angle - THT - 8.89mm from Board Edge								
15	DE	781-M15-113R141	212-4527	●				
26	DA	781-M26-113R141	212-4528	●				
44	DB	781-M44-113R141	212-4529	●				
Dust Caps								
-	DE	967-009-CAP	212-4530	●				
-	DA	967-015-CAP	212-4532	●				
-	DB	967-025-CAP	212-4533	●				
Sealing Flange								
-	DE	SF6709	212-4535	●				
-	DA	SF6715	212-4536	●				
-	DB	SF6725	212-4537	●				
Sealing Flange - Permanent								
-	DE	SFP6709	212-4538	●				
-	DA	SFP6715	212-4539	●				
-	DB	SFP6725	212-4540	●				
Sealing Flange - Single Sided								
-	DE	SFP67SS09	212-4541	●				
-	DA	SFP67SS15	212-4542	●				
-	DB	SFP67SS25	212-4544	●				
Screw Lock Kits - 4-40UNC								
Complete Mounting			160-067-010R033	212-4545	●			
Face Mounting			160-067-020R033	212-4546	●			

Waterproof D Type Connectors

IP 67



Cable Mount Plug

Panel Plug - Solder type (Rear view)

- Panel versions with solder bucket or PCB options
- Straight or right angle options
- Cable mounted plugs and sockets
- Formed pin contacts
- Tin and dimple housing
- Screw lock / thread lock, fixings included

Contact resistance Voltage Rating $m\Omega$ 350V Temperature range Current Rating $^{\circ}C$ to $+^{\circ}C$ 5A 272877.343004

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+	Price Each
Panel Socket - Solder							
9	LTWDB-09PFFS-SL7001	117-0070	●				
15	LTWDB-15PFFS-SL7001	117-0071	●				
Panel Socket - PCB Straight							
9	LTWDB-09PFFP-SL7001	117-0072	●				
15	LTWDB-15PFFP-SL7001	117-0073	●				
25	LTWDB-25PFFP-SL7001	117-0074	●				
Panel Plug - Solder							
9	LTWDB-09PMMS-SL7001	117-0075	●				
15	LTWDB-15PMMS-SL7001	117-0076	●				
25	LTWDB-25PMMS-SL7001	117-0078	●				
Panel Plug - PCB Straight							
9	LTWDB-09PMMP-SL7001	117-0079	●				
25	LTWDB-25PMMP-SL7001	117-0081	●				

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+	Price Each
Cable Socket							
9	LTWDB-09BFFA-SL7001	117-0082	●				
15	LTWDB-15BFFA-SL7001	117-0083	●				
25	LTWDB-25BFFA-SL7001	117-0084	●				
Cable Plug							
9	LTWDB-09BMMA-SL7001	117-0085	●				
15	LTWDB-15BMMA-SL7001	117-0086	●				
25	LTWDB-25BMMA-SL7001	117-0087	●				

Gender Changers

Low Profile Gender Changers



- Gender changers are available in 9, 15 and 25 way
- Standard and HD version available
- Fully Shielded
- Gold plated over nickel contacts
- 0.7" deep at thickest part

Current Rating 3 A
Dielectric Strength 1000 V for one minute
Operating Temperature -55°C to 105°C
Insulator PBT Glass Fibre Reinforced

Lowprofile design is ideal when space is a prime consideration in a permanent installation.

491371

No. of Ways	Order Code	1+	50+	100+	Price Each
Port Savers					
9 male-male	142-7691	●			
15 male-male	142-7692	●			
15 female-female	142-7694	●			
15 male-male, HD	177-5246	●			
15 female-female, HD	177-5247	●			
25 male-male	142-7695	●			
25 female-female	142-7698	●			
Port Savers					
9 male-female	142-7690	●			
15 male-female	142-7693	●			
15 male-female, HD	177-5245	●			
25 male-female	142-7697	●			

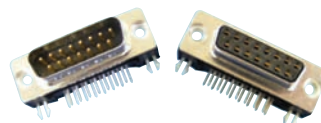
Filtered 'D'

Filtered D SUB Right Angle Connector

Amphenol

NEW

FCE17 Series



- PCB Mount
- Mounting: 4-40 UNC Thread
- Current rating: 5A
- Shell material: Steel
- Contact material: Phosphor bronze
- Contact plating: Gold

620129

No. of Ways	Capacitance	Mftrs. List No.	Order Code	1+	10+	25+	50+	Price Each
Socket - 8.08mm Footprint								
9	470pF	FCE17-E09SA-410	183-1024	●				
9	820pF	FCE17-E09SA-440	183-1025	●				
9	5600pF	FCE17-E09SA-490	183-1026	●				
15	470pF	FCE17-A15SA-410	183-1027	●				
15	820pF	FCE17-A15SA-440	183-1028	●				
15	5600pF	FCE17-A15SA-490	183-1029	●				
25	470pF	FCE17-B25SA-410	183-1030	●				
25	820pF	FCE17-B25SA-440	183-1031	●				
25	5600pF	FCE17-B25SA-490	183-1032	●				
Plug - 8.08mm Footprint								
9	470pF	FCE17-E09PA-410	183-1034	●				
9	820pF	FCE17-E09PA-440	183-1035	●				
9	5600pF	FCE17-E09PA-490	183-1036	●				
15	470pF	FCE17-A15PA-410	183-1037	●				
15	820pF	FCE17-A15PA-440	183-1038	●				
15	5600pF	FCE17-A15PA-490	183-1039	●				
25	470pF	FCE17-B25PA-410	183-1040	●				
25	820pF	FCE17-B25PA-440	183-1041	●				
25	5600pF	FCE17-B25PA-490	183-1042	●				
Socket - 10.29mm Footprint								
9	470pF	FCE17-E09SB-410	183-1043	●				
9	820pF	FCE17-E09SB-440	183-1044	●				
15	470pF	FCE17-A15SB-410	183-1046	●				
15	820pF	FCE17-A15SB-440	183-1047	●				
25	470pF	FCE17-B25SB-410	183-1048	●				
25	820pF	FCE17-B25SB-440	183-1049	●				

No. of Ways	Mftrs. Capacitance List No.	Order Code	1+	10+	25+	50+
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Plug - 10.29mm Footprint

9	470pF	FCE17-E09PB-410	183-1050			
9	820pF	FCE17-E09PB-440	183-1051			
15	470pF	FCE17-A15PB-410	183-1052			
15	820pF	FCE17-A15PB-440	183-1053			
25	470pF	FCE17-B25PB-410	183-1054			
25	820pF	FCE17-B25PB-440	183-1055			

Filtered D Sub Straight Connector **NEW** Amphenol

FCE17 Series



- Cable mount
- Solder cup contacts
- Current rating: 5A
- Shell: Steel tin plated
- Contact plating: Gold

620131

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

9	470	FCE17-E09SM-210	183-0997			
9	820	FCE17-E09SM-240	183-0998			
9	1000	FCE17-E09SM-250	183-0999			
9	5600	FCE17-E09SM-290	183-1000			
15	470	FCE17-A15SM-210	183-1001			
15	820	FCE17-A15SM-240	183-1002			
15	1000	FCE17-A15SM-250	183-1003			
15	5600	FCE17-A15SM-290	183-1004			
25	470	FCE17-B25SM-210	183-1005			
25	820	FCE17-B25SM-240	183-1006			
25	1000	FCE17-B25SM-250	183-1007			
25	5600	FCE17-B25SM-290	183-1009			

Plug

9	470	FCE17-E09PM-210	183-1011			
9	820	FCE17-E09PM-240	183-1012			
9	1000	FCE17-E09PM-250	183-1013			
9	5600	FCE17-E09PM-290	183-1014			
15	470	FCE17-A15PM-210	183-1015			
15	820	FCE17-A15PM-240	183-1016			
15	1000	FCE17-A15PM-250	183-1017			
15	5600	FCE17-A15PM-290	183-1018			
25	470	FCE17-B25PM-210	183-1019			
25	820	FCE17-B25PM-240	183-1020			
25	1000	FCE17-B25PM-250	183-1022			
25	5600	FCE17-B25PM-290	183-1023			

Filtered D Sub Adapters **NEW** Amphenol

FCE Series



- D Sub plug to socket adapters
- Current rating: 5A
- Shell: Tin plated steel
- Contact plating: Gold

620130

No. of Ways	Mftrs. List No.	Order Code	1+	5+	10+	25+
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470pF Capacitance

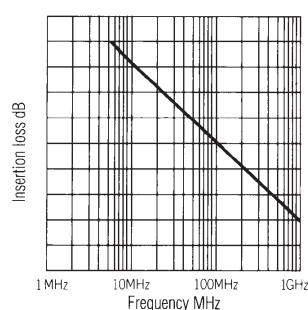
9	FCE17-E09AD-210	183-0987				
15	FCE17-A15AD-210	183-0990				
25	FCE17-B25AD-210	183-0993				

1000pF Capacitance

9	FCE17-E09AD-250	183-0988				
15	FCE17-A15AD-250	183-0991				
25	FCE17-B25AD-250	183-0994				

5600pF Capacitance

9	FCE17-E09AD-290	183-0989				
15	FCE17-A15AD-290	183-0992				
25	FCE17-B25AD-290	183-0996				



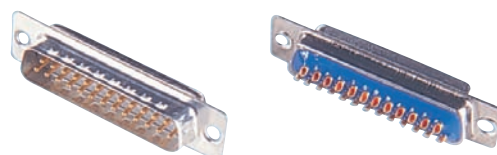
- Filtered tin and dimple 'D' connectors with turned pin contacts
- Designed to make equipment compatible with **BS, VDE, FCC** and **FTZ** regulations in respect of EM/RFI emissions
- Filtering is achieved by means of a 1nF feed through ceramic capacitor on each contact which is fully encapsulated within the connector shell for maximum resistance to hazardous environments
- Soldering instructions included

Typical performance relates to 50Ω system **Mil Std 220**
Capacitance - 1nF nominal 1KHz 0.1rms

Contact rating	5A @60°C	Housing	Steel, Tin plating
Contact resistance	5mΩmax	Insulator	High Impact Epoxy & Glass Filled Polyester UL94V-0
Insulation resistance	MQmin	Rear encapsulation	Turned Copper Alloy
Working voltage	200V dc/ac peak	Contacts	Gold over Nickel
Capacitance	1nF @ 1KHz 0.1 rms	Earthing strap (90°PCB)	Steel, Tin plating
Temperature range	-55°C to +85°C	Riv-nut (90°PCB)	4-40 NC Thread
Mating cycles	100		

209778

Filtered Solder Bucket 'D'

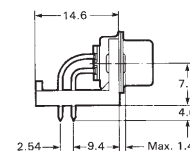
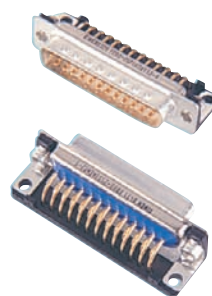


Mftrs. List No.	= FDE-9PTI2/1-LF111-4110	Mftrs. List No.	= FDE-9PTI2/1-LF111-4110
	= FDA-15PTI2/1-LF111-4111		= FDA-15ST2/1-LF111-4114
	= FDB-25PTI2/1-LF111-4112		= FDB-25ST2/1-LF111-4115
	= FDE-9ST2/1-LF111-4113		

209781

No. of Ways	Order Code	1+	10+	25+	50+	100+	250+
Plugs							
9	111-4110						
15	111-4111						
25	111-4112						
Sockets							
9	111-4113						
15	111-4114						
25	111-4115						
37	111-4117						

Filtered 90° PCB 'D' Earthing Strap and Riv-Nuts



Mftrs. List No.	FDEB-9P1AENT12/1-LF= 111-4127, FDBB-25P1AENT12/1-LF= 111-4132, FDEB-9S1AENT12/1-LF= 111-4134, FDBB-25S1AENT12/1-LF= 111-4136,	FDAB-15P1AENT12/1-LF= 111-4131, FDCB-37P1AENT12/1-LF= 111-4133, FDAB-15S1AENT12/1-LF= 111-4135, FDCB-37S1AENT12/1-LF= 111-4137
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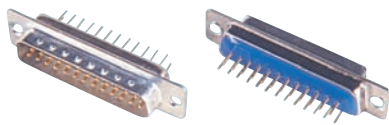
209782

No. of Ways	Order Code	1+	10+	25+	50+	100+	250+
Plugs							
9	111-4127						
15	111-4131						
25	111-4132						
37	111-4133						
Sockets							
9	111-4134						
15	111-4135						
25	111-4136						
37	111-4137						

TROUBLESHOOTING TIPS
Chat online to one of our technical engineers at farnell.com

Filtered 'D' - continued

Filtered Straight PCB 'D'

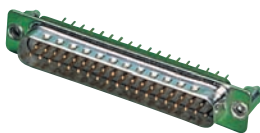


Mfrs. List Nos:	FDE-9POL2T2/1-LF = 111-4118	FDE-9SOL2T2/1-LF = 111-4122
	FDA-15POL2T2/1-LF = 111-4119	FDA-15SOL2T2/1-LF = 111-4123
	FDB-25POL2T2/1-LF = 111-4120	FDB-25SOL2T2/1-LF = 111-4124
	FDC-37POL2T2/1-LF = 111-4121	FDC-37SOL2T2/1-LF = 111-4126

209779

No. of Ways	Order Code	Price Each					
		1+	10+	25+	50+	100+	250+
Plugs							
9	111-4118						
15	111-4119						
25	111-4120						
37	111-4121						
Sockets							
9	111-4122						
15	111-4123						
25	111-4124						
37	111-4126						

Filtered Straight PCB 'D', 4-40 Threaded Stand offs



- 7mm high stand offs
- Snap in board lock
- Full shielding for EMI/RFI
- Potted construction, provides resistance to hazardous environments
- Complies with BS9523, MIL-C-24308 or HE501

Contact Rating	5A	Mating Cycles	250
Contact Resistance	5mΩ	Housing (front)	Steel, tin plated
Insulation Resistance	MΩ min	(rear)	Steel, nickel plated
Working voltage	200V dc/ac peak	Insulator	High Impact Epoxy & Glass Filled Polyester
Capacitance	1nF @ 1KHz 0.1 rms	Stand offs	4-40UNC threaded
Temperature Range	-55°C to +85°C		

209841

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	100+
Plugs						
9	FDE-9PBL2T2/1-LF	111-4156				
15	FDA-15PBL2T2/1-LF	111-4157				
25	FDB-25PBL2T2/1-LF	111-4158				
Sockets						
9	FDE-9SBL2T2/1-LF	111-4159				
15	FDA-15SBL2T2/1-LF	111-4160				
25	FDB-25SBL2T2/1-LF	111-4161				
37	FDC-37SBL2T2/1-LF	111-4162				

Filtered 'D' Adapters



- Converts standard 'D' to filtered 'D'
- Full shielding integrity for protection against RFI/EMI
- 'Feed through' technology enhances rejection levels in VHF and UHF bands

Contact Material	Copper Alloy, Gold over nickel	Insulator Material	High Impact Epoxy glass filled polyester
Current Rating		Shell material	
Temperature Range	-40 to +125°C	Front Housing	Steel, bright tin finish
Working voltage	200V dc/ac peak	Back	Steel, electrolytic nickel
Contact Resistance	5x10 ⁻³ Ω max	Body	Aluminium alloy, nickel plated
Insulation Resistance	5x10 ⁹ Ω	Mating Cycles	250

227390

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
9	FA-9PS/1-LF	111-4106			
15	FA-15PS/1-LF	111-4107			
25	FA-25PS/1-LF	111-4108			
37	FA-37PS/1-LF	111-4109			

Filtered D Sub Adapters



Contact Rating	6.5A
Working voltage	100V

- Male to Female Filtered D Sub Adapter
- 9, 15, 25 and 37 way available
- 2 Filter Values, 1000pF and 3900 pF for effective electronic noise reduction
- Ideal for easy EMI corrections in existing applications or quick filter tests during design phase
- Provided with 2 Jack screws 4-40 UNC not pre-mounted to allow flexibility of use

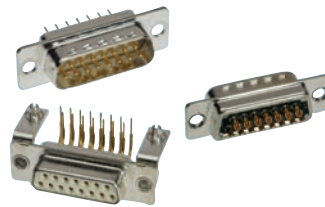
Pushing Performance

503084

No. of Ways	Capacitance PF	Mfrs. List No.	Order Code	Price Each		
				1+	5+	10+
9	1000	09 64 100 7230	155-4605			
9	3900	09 64 100 7240	155-4606			
15	1000	09 64 200 7230	155-4609			
15	3900	09 64 200 7240	155-4611			
25	3900	09 64 300 7240	155-4614			
37	1000	09 64 400 7230	155-4616			

Filtered "D" Sub Connectors

Plugs and Sockets



- The filtering element incorporates a multi-layer printed circuit board and surface mount components
- The right angled versions are supplied with board locks and clinch nut with a 4-40 UNC thread
- Suitable for military, aerospace, industrial, medical, telecom and computer applications

Pushing Performance

- Reflow solder compatible
- Allows user to use the same layout as a standard D-Sub (or mixed D-Sub) but provides more space on the PCB board by having the filter in the connector

Current Rating	7.5A	Housing	Steel
Contact Resistance	10mΩ max	Insulator	PCT Re-inforced Glass fibre, UL94V-0
Withstand voltage	250V	Contacts	Copper Alloy, Selective Gold
Temperature Range	-55°C to +125°C		

Straight PCB - with Turned Solder Pins

No. of Ways	Mfrs. List No.	Filter Type	Order Code	Price Each			
				1+	10+	25+	50+
Plugs							
25	09643227210	47pF	134-1501				
9	09641227230	1000pF	116-8717				
Sockets							
9	09641127210	47pF	134-1503				
9	09641127230	1000pF	116-8722				
15	09642127230	1000pF	116-8723				

90° PCB Turned Solder Pin - Board Locks and Clinch Nut - 4-40 UNC

No. of Ways	Mfrs. List No.	Filter Type	Order Code	Price Each			
				1+	10+	25+	50+
Plugs							
9	09641247232	1000pF	116-8726				
Sockets							
9	09641147232	1000pF	116-8730				
25	09643147232	1000pF	116-8732				
15	09642147242	3900pF	134-1540				

Solder Bucket

430008

No. of Ways	Mfrs. List No.	Filter Type	Order Code	Price Each			
				1+	10+	25+	50+
Plugs							
9	09641217210	47pF	134-1517				
15	09642217210	47pF	134-1518				
25	09643217210	47pF	134-1519				
9	09641217230	1000pF	116-8735				
15	09642217230	1000pF	116-8736				
25	09643217230	1000pF	116-8737				
9	09641217240	3900pF	134-1543				
15	09642217240	3900pF	134-1544				
Sockets							
9	09641117210	47pF	134-1521				
15	09642117210	47pF	134-1523				
25	09643117210	47pF	134-1524				

No. of Ways	Mftrs. List No.	Filter Type	Order Code	1+	10+	25+	50+
Sockets							
9	09641117230	1000pF	116-8739				
15	09642117230	1000pF	116-8740				
25	09643117230	1000pF	116-8741				
9	09641117240	3900pF	134-1548				
15	09642117240	3900pF	134-1549				

Filtered D Sub Connectors

US Footprint



Plug		Socket	
Operating Voltage	250V ac	Contact Resistance	15mΩ
Current Rating	7.5A	Dielectric Voltage	500V ac / min.
Insulation Resistance	1GΩ		

601256

Mftrs. List No.	No. of Ways	Order Code	1+	10+	25+	50+
Plug						
09 64 123 7802	9	177-9279				
09 64 223 7802	15	177-9281				
09 64 323 7802	25	177-9282				
Socket						
09 64 113 7802	9	177-9283				
09 64 213 7802	15	177-9284				
09 64 313 7802	25	177-9285				

High Density D Sub

M-Series

M Series High Density D-Sub



- Current rating: 5A
- Shell material: Steel
- Shell plating: Nickel
- Contact material: Brass
- Contact plating: Gold flash

NEW

663624

No. of Ways	Shell Size	Mftrs. List No.	Order Code	1+	10+	50+	100+
Plug - Solder Cup							
15	DE	180-M15-103L001	212-4473				
26	DA	180-M26-103L001	212-4478				
44	DB	180-M44-103L001	212-4482				
Plug - Vertical - THT							
15	DE	180-M15-113R001	212-4474				
26	DA	180-M26-113R001	212-4479				
44	DB	180-M44-113R001	212-4483				
Socket - Solder Cup							
15	DE	180-M15-203L001	212-4475				
26	DA	180-M26-203L001	212-4480				
44	DB	180-M44-203L001	212-4484				
Socket - Vertical - THT							
15	DE	180-M15-213R001	212-4477				
26	DA	180-M26-213R001	212-4481				
44	DB	180-M44-213R001	212-4485				
Plug - Right Angle - THT							
15	DE	181-M15-113R141	212-4486				
26	DA	181-M26-113R141	212-4489				
44	DB	181-M44-113R141	212-4492				
Socket - Right Angle - THT							
15	DE	181-M15-213R141	212-4487				
26	DA	181-M26-213R141	212-4491				
44	DB	181-M44-213R141	212-4493				

Ultra Slim HDD Sub miniature Connector



- Current rating: 1A
- Contact material: Phosphor Bronze
- Contact plating: Gold
- Right angle through hole



NEW

642421

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
15	634-015-274-992	205-7537				

Standard and High Density D-SUB

MIL-C-24308 and MIL-C-39029



- 3.05mm screw mounting holes
- Shell material: Steel
- Shell plating: Zinc
- Contact material: Copper
- Contact plating: Gold



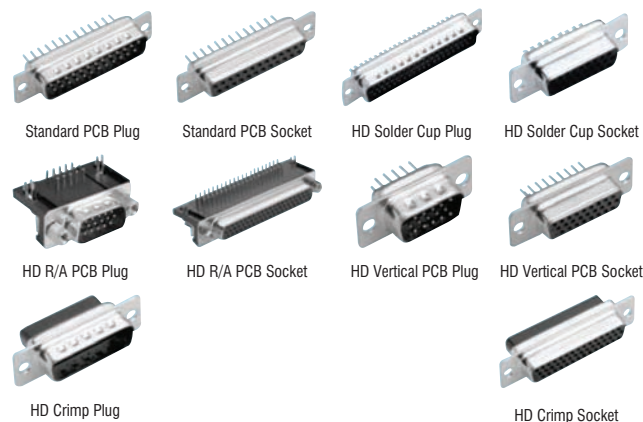
NEW

660216

No. of Ways	Shell Size	Mftrs. List No.	Order Code	1+	10+	50+	100+
Standard Plug							
9	DE	1757819-1	207-6140				
15	DA	1757819-2	207-6141				
25	DB	1757819-3	207-6142				
37	DC	1757819-4	207-6143				
50	DD	1757819-5	207-6144				
Standard Socket							
9	DE	1757820-1	207-6145				
15	DA	1757820-2	207-6146				
25	DB	1757820-3	207-6148				
37	DC	1757820-4	207-6149				
50	DD	1757820-5	207-6150				
High Density Plug							
15	DE	1757823-1	207-6151				
26	DA	1757823-2	207-6152				
44	DB	1757823-3	207-6153				
62	DC	1757823-4	207-6154				
78	DD	1757823-5	207-6155				
High Density Socket							
15	DE	1757824-1	207-6156				
26	DA	1757824-2	207-6157				
44	DB	1757824-3	207-6158				
62	DC	1757824-4	207-6161				
78	DD	1757824-5	207-6162				
Crimp Contacts							
24AWG to 20AWG	Pin	205089-1	206-3615				
24AWG to 20AWG	Socket	205090-1	165-3860				
28AWG to 22AWG	Pin	204370-2	207-6163				
28AWG to 22AWG	Socket	204351-1	207-6164				

Standard / High Density D-Sub Connectors

ZD Series



- Stamped contacts ZD connectors
- Closed-entry socket insulator for secure blind mating
- Compatible with all other D Subminiature series
- Glass filled thermoplastic insulator, UL94V-0
- Standard arrangement and high density arrangement available



Standard / High Density D-Sub Connectors - continued

ZD Series - continued

- **Applications:** Industrial such as Control & Measurement, Computer, Telecom or Medical Equipment

Specifications:-			
Contact Material	Brass (Plug) Phosphor Bronze (Socket)	Current Rating	5A (Standard) 2A (High Density)
Contact Plating	Gold	Withstanding Voltage	1000VAC
Insulator Material	Glass Filled Thermoplastic	Shell Material	Steel
Contact Resistance	20mohm	Insulation Resistance	
Mating Cycles	50	Flammability Rating	UL94V-0
Operating Temp.	-55°C to 105°C		

No. of Ways	Shell Size	Mfrs. List No.	Order Code	1+	10+	50+	100+
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Standard Plugs, Vertical, PCB, Through Hole

9	E	ZDE9P-OL2	176-0263				
15	A	ZDA15P-OL2	176-0264				
37	C	ZDC37P-OL2	176-0266				

Standard Sockets, Vertical, PCB, Through Hole

9	E	ZDE9S-OL2	176-0267				
15	A	ZDA15S-OL2	176-0268				
25	B	ZDB25S-OL2	176-0271				
37	C	ZDC37S-OL2	176-0272				

HD Plugs, Solder Cup, Through Hole

15	E	ZDEA15P	176-0273				
26	A	ZDAA26P	176-0274				
44	B	ZDBA44P	176-0275				
62	C	ZDCA62P	176-0276				

HD Sockets, Solder Cup, Through Hole

15	E	ZDEA15S	176-0277				
26	A	ZDAA26S	176-0278				
44	B	ZDBA44S	176-0279				
62	C	ZDCA62S	176-0280				

HD Plugs, R/A, PCB, Boardlock & Screwlock 4-40

15	E	ZDE15P1AKN-146	176-0281				
26	A	ZDA26P1AKN-146	176-0283				
44	B	ZDB44P1AKN-146	176-0284				
62	C	ZDC62P1AKN-146	176-0285				

HD Sockets, R/A, PCB, Boardlock & Screwlock 4-40

15	E	ZDE15S1AKN-146	176-0286				
26	A	ZDA26S1AKN-146	176-0287				
44	B	ZDB44S1AKN-146	176-0288				
62	C	ZDC62S1AKN-146	176-0289				

HD Plugs, Vertical, PCB, Boardlock & Thread 4-40

15	E	ZDEAE15POL2-146	176-0290				
26	A	ZDAAE26POL2-146	176-0291				
44	B	ZDBAE44POL2-146	176-0292				
62	C	ZDCAE62POL2-146	176-0293				

HD Sockets, Vertical, PCB, Boardlock & Thread 4-40

15	E	ZDEAE15SOL2-146	176-0295				
26	A	ZDAAE26SOL2-146	176-0296				
44	B	ZDBAE44SOL2-146	176-0297				
62	C	ZDCAE62SOL2-146	176-0298				

HD Plugs, Vertical, PCB, Boardlock & Screwlock 4-40

15	E	ZDEAE15POL2-AB-146	176-0299				
26	A	ZDAAE26POL2-AB-146	176-0301				
44	B	ZDBAE44POL2-AB-146	176-0302				
62	C	ZDCAE62POL2-AB-146	176-0303				

HD Sockets, Vertical, PCB, Boardlock & Screwlock 4-40

15	E	ZDEAE15SOL2-AB-146	176-0304				
26	A	ZDAAE26SOL2-AB-146	176-0305				
44	B	ZDBAE44SOL2-AB-146	176-0306				
62	C	ZDCAE62SOL2-AB-146	176-0307				

Crimp Contact, Pin, Size 22			
24-26 AWG	ZD120191-22	177-7593	1+ 10+ 100+ 500+

Crimp Contact, Socket, Size 22			
24-26 AWG	ZD120191-24	177-7594	

Hand Tools			
Crimp Tool	CCT-D*A	176-0321	1+
Insertion / Extraction	CIET-22DF	176-0322	

Formed Pins



- Approximately 65% higher density than HD-20 connectors
- Low cost, high performance, precision formed contacts
- Tin plated shells with grounding indents

Contact Rating	5A	Temperature Range	-55°C to +105°C
Contact Resistance	15mΩ max	Housing Insulator	Steel, Tin plating
Dielectric withstand voltage	1kV ac min		UL94V-0
Mfrs. List No:	748364-1 = 182-4867 1658671-1 = 109-8427 1658672-1 = 109-8428 1658673-1 = 109-8468	1658681-1 = 109-8429 1658682-1 = 109-8430 1658683-1 = 109-8431	1658684-1 = 109-8432 1658670-2 = 109-8472 1658670-4 = 109-8434

No. of Ways	Mfrs. List No.	Order Code	1+	50+	100+	500+	1K+
Plug Housing							
15	748364-1	182-4867					
26	1658671-1	109-8427					
44	1658672-1	109-8428					
62	1658673-1	109-8468					
Socket Housing							
15	1658681-1	109-8429					
26	1658682-1	109-8430					
44	1658683-1	109-8431					
62	1658684-1	109-8432					

Order Multiple=10		Order Code	10+	50+	100+	500+	1K+
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Pin Contacts

28-22 AWG,	
0.08-0.4mm ² (Gold)	109-8472
28-22 AWG, 0.08-0.4mm ² (Gold Flash)	109-8434

Socket Contacts

28-22 AWG,	
0.08-0.4mm ² (Gold)	109-8424
28-22 AWG, 0.08-0.4mm ² (Gold Flash)	109-8425

Crimp Tool for HDP-22



Mfrs. List Nos: 90800-1 = 215-6659

	Order Code	Price Each
Crimp tool	215-6659	

High Density D Sub Crimp Connectors



Plug

Socket

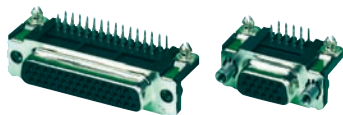
- Pitch - 2.29mm, Pitch Row - 1.98mm
- Crimp type
- Shell material - steel with tin plating
- Retention springs - stainless steel
- Operating temperature - -55°C to 105°C
- Flammability rating - UL 94V-0

524620

Mfrs. List No.	No. of		Price Each		
	Ways	Order Code	1+	25+	50+
Plugs					
SPC15431	15	156-4229			
SPC15255	26	156-4231			
SPC15297	44	156-4233			
SPC15155	62	156-4235			
SPC15213	78	156-4238			
Sockets					
SPC15367	15	156-4230			
SPC15252	26	156-4232			
SPC15235	44	156-4234			
SPC15244	62	156-4236			
SPC15247	78	156-4239			
Crimp Socket			1+	10+	50+
SPC15384	20-24AWG	156-4240			
Crimp Pin					
SPC15398	20-24AWG	146-2670			

Tyco Electronics
SDE Die and Tooling options available See Web

HD-22, 90° PCB Metal Shell Screwlocks and Threaded Inserts

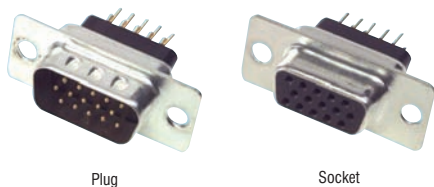


- Ideal for robotic and high temperature application
 - 4.40 threaded inserts and female screwlocks
 - Integral boardlocks
- | | | | |
|--------------------|-----------------|-----------|-------------------------------------|
| Contact Rating | 2A | Housing | Steel, Tin plated |
| Contact Resistance | 20mΩ max | Insulator | Thermoplastic |
| Withstand voltage | 1KV ac min | Contacts | Phosphor Bronze, Gold on mating end |
| Temperature Range | -55°C to +125°C | | |

209974

No. of Mfrs.	Price Each				
	Ways List No.	Order Code			
	1+	50+	100+	500+	1K+
4-40 Threaded Inserts					
15	1-1734530-3	105-6020			
44	5748482-5	109-8452			
62	5748394-5	109-8423			
4-40 Female Screwlocks					
15	1734530-3	105-6018			

High Density D Sub DIP Connectors



- Pitch - 2.29mm, Pitch Row - 1.98mm
- DIP type
- Shell material - steel with tin plating
- Operating temperature- -50°C to 100°C
- Flammability rating - UL 94V-0

Insulator Material	Contact Material	Contact Plating	Withstanding Voltage	Current Rating
PBT (Polybutylene terephthalate) +30% Fibre Glass	Brass	Gold	500VAC for 1 min.	5A

524627

Mfrs. List No.	No. of Ways	Order Code	Price Each		
			1+	25+	50+
Plugs					
SPC15402	15	156-4241			
SPC15353	26	156-4242			
SPC15326	44	156-4243			
SPC15240	62	146-2669			
SPC15386	78	156-4244			

Mfrs. List No.	No. of Ways	Order Code	Price Each		
			1+	25+	50+
Sockets					
SPC15408	15	156-4245			
SPC15300	26	156-4246			
SPC15399	44	156-4247			
SPC15169	62	156-4248			
SPC15351	78	156-4251			

High Density D Sub R/A PCB Connectors



Socket

Plug

- Pitch - 2.29mm, Pitch Row - 1.98mm
- Orientation - Right Angle
- Shell material - steel, nickel plated over copper
- Contact resistance - 20 mOhm
- Insulation resistance - 5000 Mohm at 500Vdc
- Operating temperature- -55°C to 105°C

Insulator Material	Contact Material	Contact Plating	Withstanding Voltage	Current Rating
PBT (Polybutylene terephthalate) +30% Fibre Glass	Copper Alloy	Gold	1000VAC for 1 min.	2A

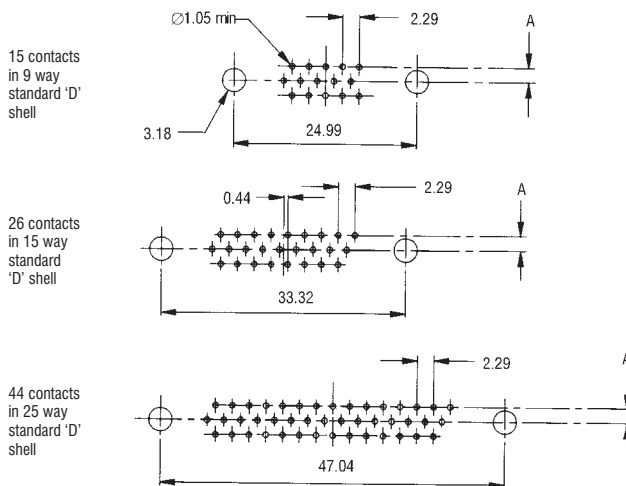
524633

Mfrs. List No.	No. of Ways	Order Code	Price Each		
			1+	25+	50+
Sockets					
SPC15430	15	156-4252			
SPC15293	26	156-4253			
SPC15324	44	156-4254			
SPC15436	78	156-4255			
Plugs					
SPC15254	15	156-4256			
SPC15237	26	156-4257			
SPC15140	44	156-4258			
SPC15370	78	156-4259			
HD D Sub Crimp Tool			1+		
CTT8424-01		156-4260			



The High Density 'D' connector is well suited to a wide range of applications where a larger than normal number of contacts is required in a standard 'D' subminiature shell. Available with solder bucket or crimp contacts - both male and female, straight pcb termination (male only) and right angled pcb termination (female only)

Contact Rating	3A @ 70°C	Housing	Steel, plating
Contact Resistance	15mΩ max	Insulator	Thermoplastic
Working voltage	300V dc/ac peak	Contacts	Copper alloy, gold over nickel
Temperature Range	-55°C to +105°C	Pin Socket	Phosphor bronze, gold over nickel
Mating cycles	50		



210096

High Density D Sub - continued

Solder Bucket (Formed Pin)



Mfrs. List Nos: HDE15PTD = 107-1808
 HDA26PTD = 107-1809
 HDE15ST = 107-1811
 HDA26ST = 107-1812
 HDB44ST = 107-1813

209765

No. of Ways	Order Code	1+	25+	50+	100+	250+
Plugs						
15	107-1808					
26	107-1809					
44	107-1810					
Sockets						
15	107-1811					
26	107-1812					
44	107-1813					

Crimp Housings

Formed Contacts and Tooling



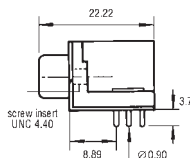
Open crimp conductor diameters
 24/28 AWG, 0.08-0.22mm², 7/0.2 or 10/0.1

Mfrs. List Nos: HDAC15PTD = 107-1807 HDAC26ST = 107-5293 MP643-16 = 107-5300
 HDAC26PTD = 107-5290 MP642-06 = 107-5297 MP643-15 = 107-5301
 HDAC15ST = 107-5292 MP642-05 = 107-5298 MP-600-HD = 151-226

210097

No. of Ways	Order Code	1+	25+	50+	100+	250+
Plug Housing						
15	107-1807					
26	107-5290					
Socket Housing						
15	107-5292					
26	107-5293					
Price Per Pack						
Number of Insertions		1+	10+			
Pin Contacts (100 Per Pack)						
50	107-5297					
200	107-5298					
Socket Contacts (100 Per Pack)						
50	107-5300					
200	107-5301					
Ratchet Crimp Tool						
151-226						

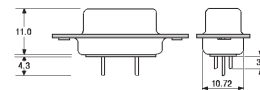
90° PCB Sockets - With Boardlocks and Screwlocks



210098

No. of Ways	Order Code	1+	25+	50+	100+	250+
15	107-5303					
26	107-5304					
44	107-5306					

Straight PCB Plugs (Turned Pin)



Mfrs. List Nos: HDA26POLTD = 107-5295

210099

No. of Ways	Order Code	1+	25+	50+	100+	250+
26	107-5295					

Micro Miniature 'D' Connectors

MICRO-D

MICRO-D



Micro-D Sub



- Less than a third the size of standard D-Sub
- Current rating: 1A
- Voltage rating: 500V
- Contact material: Copper alloy
- Contact plating: Gold flash
- Cable assemblies are single ended

NEW

660160

No. of Ways	Mfrs. List No.	Order Code	1+	5+	25+	50+
Plug - Vertical - THT						
9	380-009-113L001	212-4432				
15	380-015-113L001	212-4433				
25	380-025-113L001	212-4434				
Receptacle - Vertical - THT						
9	380-009-213L001	212-4435				
15	380-015-213L001	212-4436				
25	380-025-213L001	212-4437				
Plug - Right Angle - THT						
9	381-009-112L565	212-4438				
15	381-015-112L565	212-4441				
25	381-025-112L565	212-4442				
Plug - Right Angle - THT - Dual Port						
2x9	382-009-112L565	212-4443				
2x15	382-015-112L565	212-4444				
Hoods						
9	960-009-010R011	212-4445				
15	960-015-010R011	212-4446				
25	960-025-010R011	212-4447				
Cable Assembly - 0.5m						
9	CCA-009-M.5R152	212-4450				
15	CCA-015-M.5R152	212-4454				
25	CCA-025-M.5R152	212-4457				
Cable Assembly - 1m						
9	CCA-009-M01R152	212-4451				
15	CCA-015-M01R152	212-4455				
25	CCA-025-M01R152	212-4458				
Cable Assembly - 2m						
9	CCA-009-M02R152	212-4453				
15	CCA-015-M02R152	212-4456				
25	CCA-025-M02R152	212-4459				
Crimp Contacts / Tools						
Crimp Socket	960-001-170L005	212-4448				
Hand Crimp Tool	960-702-170-000	212-4449				

Micro MDSM Shielded Connectors



ITT
 Engineered for life



- Micro D-Sub shielded interface connectors
- MDSM connectors are suitable for IR reflow & vapour phase soldering
- 90° solder pins in PCB plug, 1.27 x 2.54mm spacing

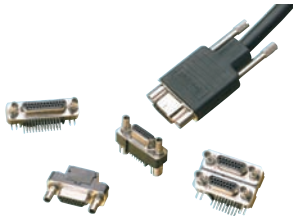
- Sockets can hold either pin or socket crimp contacts but these must be ordered separately
- Screw locking mounting method

Specifications:-	Copper Alloy	Contact Plating	Gold
Contact Material	2.5A	Test Voltage	350V
Current Rating	Steel	Operating Temp.	-55°C to 125°C
Shell Material	Thermoplastic	Flammability Rating	UL94V-0
Insulator Material	35mohm (PCB version) / 20mohm (Crimp version)	Insulation Resistance	
Contact Resistance			

602847

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+
Plugs, PCB, 90° Solder Pins					
9	MDSM-9PE-Z10-VR25	146-2601	●		
15	MDSM-15PE-Z10-VR22	176-0375	●		
25	MDSM-25PE-Z10-VR17	176-0376	●		
Sockets, Crimp Termination					
9	MDSM-9SC-Z11-VS1	176-0377	●		
15	MDSM-15SC-Z11-VS1	176-0378	●		
25	MDSM-25SC-Z11-VS1	176-0379	●		
Crimp Contacts, 26-28 AWG					
Pin	MDS-P-TS	177-7595	●		
Socket	MDS-S-TS	177-7596	●		
Hand Tools					
Crimp Tool	CCTR-MDS	176-0382	●		
Insertion Tool	CT120090-102	176-0384	●		

Commercial Micro-D 1.27mm Pitch



Current Rating	1A
Approval Bodies	CSA, UL Recognised
Insulation Resistance	5000Mohm
Housing	Nickel Plated
Insulator Material	PPS Polyphenylene Sulfide
Contact Material	Beryllium Copper, Gold Plated
Temperature Range	-55°C to +125°C
Working Voltage	350V

- Suitable for commercial applications
- Metal interface and grounding tabs improve mechanical and electrical shielding properties

449945

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	50+
Plug - PCB Mount - Verticle						
9	83611-9023	126-3554	●			
15	83612-9024	126-3555	●			
25	83614-9016	126-3556	●			
Plug - PCB Mount - Right Angle						
9	0836119006	126-3551	●			
15	0836129020	126-3552	●			
25	0836149012	126-3553	●			
Cable Assembly						
	83421-9044	126-3562	●			
15	83422-9018	126-3563	●			
25	83424-9021	126-3564	●			

Metal and Plastic Shell

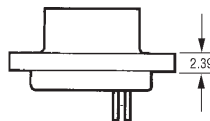


- A high quality, high density range of environmental connectors
- Lightweight, durable shell
- Twisted pin contact
- Ideal for industrial application where size and mateability are important
- Metal and plastic body version, complete with dust cover

Contact Rating	3A	Housing (metal body)	Aluminium alloy
Working voltage	200V dc/ac peak	(plastic body)	Electroless Nickel
Proof voltage	600V dc/ac peak		Thermoplastic polyester
Contact Resistance	≤8mΩ max		G.F
Insulation Resistance	MΩ	Insulator	Diallyl Phthalate G.R
Temperature Range	-55°C to +125°C	Contact material	Copper Alloy, 50µ Gold plated
Mating cycles	500		

227503

Metal Shell - Flying Leads

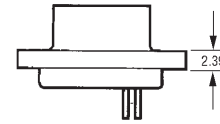
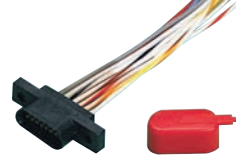


- 450mm colour coded PTFE flying leads

209836

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	100+	250+	
Plug								
9	DCCM-9P6E518.0B-LF	111-4163	●					
15	DCCM-15P6E518.0B-LF	111-4164	●					
37	DCCM-37P6E518.0B-LF	111-4167	●					
51	DCCM-51P6E518.0B-LF	111-4168	●					
Socket								
9	DCCM-9S6E518.0B-LF	111-4169	●					
15	DCCM-15S6E518.0B-LF	111-4170	●					
25	DCCM-25S6E518.0B-LF	111-4171	●					
37	DCCM-37S6E518.0B-LF	111-4172	●					
51	DCCM-51S6E518.0B-LF	111-4173	●					
2 Per Pack								
				Price Per Pack				
				1+	10+	25+	100+	250+
Jack posts								
	M83513/5.07-LF	111-4186	●					
Jack screws								
	M83513/5.05-LF	111-4187	●					

Plastic Shell - Flying Leads



- 450mm Colour coded PTFE flying leads

219842

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	100+	250+
Plug							
9	DCDA-9P6E518.0B-LF	111-4174	●				
15	DCDA-15P6E518.0B-LF	111-4175	●				
25	DCDA-25P6E518.0B-LF	111-4178	●				
Socket							
9	DCDA-9S6E518.0B-LF	111-4181	●				
15	DCDA-15S6E518.0B-LF	111-4182	●				
25	DCDA-25S6E518.0B-LF	111-4183	●				

Metal and Plastic Shell Solder Bucket Contacts



Current Rating	3A
Withstand voltage	600V ac @ sea level
Contact Resistance	8mohm
Operating Temperature	-55 to +135°C
Contact Material	Copper Alloy
Metal Shell Material	Aluminium Alloy
Plastic Shell Material	Glass Reinforced Thermoplastic

- Rugged reliable contacts
- High working voltage

- Solder bucket contacts

450835

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	50+
Metal Plugs						
9	DCDM-9PSBN-LF	128-2138	●			
15	DCDM-15PSBN-LF	128-2139	●			
25	DCDM-25PSBN-LF	128-2140	●			
37	DCDM-37PSBN-LF	128-2142	●			
51	DCDM-51PSBN-LF	128-2143	●			
Metal Sockets						
9	DCDM-9SSBN-LF	128-2144	●			
15	DCDM-15SSBN-LF	128-2145	●			
25	DCDM-25SSBN-LF	128-2146	●			
37	DCDM-37SSBN-LF	128-2147	●			
51	DCDM-51SSBN-LF	128-2148	●			
Plastic Plugs						
9	DCDA-9PSB-LF	128-2149	●			
15	DCDA-15PSB-LF	128-2151	●			
25	DCDA-25PSB-LF	128-2152	●			
Plastic Sockets						
9	DCDA-9SSB-LF	128-2156	●			
15	DCDA-15SSB-LF	128-2157	●			

IMPROVED BACK ORDER DELIVERY

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

Micro Miniature 'D' Connectors - continued

Backshell EMC Screened



- EMC screened backshells
- 18" pre-terminated braid attachment on backshell
- Supplied with hex head jackscrews & retaining clips

Back Shells with 450mm (18") Pre-terminated Braid

Mftrs. List No.	
MMBST0908N18	= 128-2161
MMBST1508N18	= 128-2163
MMBST2508N18	= 128-2164
MMBST3708N18	= 128-2166
MMBST5108N18	= 128-2167

450981

No. of Ways	Braid Entry Size, Max	Order Code	1+	10+	25+	50+
9	6.4mm	128-2161				
15	6.4mm	128-2163				
25	6.4mm	128-2164				
37	7.1mm	128-2166				
51	7.9mm	128-2167				

Standard 'D' Shells

D-Sub Backshell Economy



- Cable diameter: 3 to 11mm
- Jack screw thread: 4-40 UNC
- Colour: Black
- Body material: Polyamide

NEW

640453

Connector Shell Size	Mftrs. List No.	Order Code	1+	10+	50+	100+
DE-9	1991253-9	190-2725				
DA-15	1-1991253-5	190-2727				
DC-25	2-1991253-5	190-2728				
DC-37	3-1991253-7	190-2729				

Straight Exit Plastic Back Shells Integrated Locking

NEW



- Housing material: Thermoplastic
- Jack screw thread: 4-40 UNC
- Colour: Grey
- Temperature range: -55°C to +85°C

652530

Shell No. of Size	Mftrs. List No.	Order Code	1+	10+	50+	100+
DE 9/15HD	8630CH09UNCLF	207-9321				
DA 15	8630CH15UNCLF	207-9322				
DB 25	8630CH25UNCLF	207-9323				
DC 37	8630CH37UNCLF	207-9324				

Straight Exit D Sub Back Shell Plastic Snap Together

NEW



- Includes cable clamp with self-taping screws
- Cable diameter: 4mm to 11mm
- Body material: Nylon
- Temperature range: -40°C to +90°C

652990

Shell No. of Size	Mftrs. List No.	Order Code	1+	10+	50+	100+	250+
4-40 UNC Mounting Screw							
DE	9/15HD 86303637BLF	207-9356					
DA	15 86303638BLF	207-9357					
DB	25 86303639BLF	207-9358					
DC	37 86303640BLF	207-9359					
DD	50 86303641BLF	207-9360					

M3 Mounting Screw

DE	9/15HD 86553329BLF	207-9361					
DA	15 86553330BLF	207-9362					
DB	25 86303644BLF	207-9363					
DC	37 86303645BLF	207-9364					

D Sub Back Shell

NEW



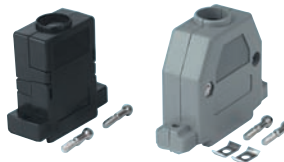
- Includes 2 screws, tie rap and clamp
- Shell material: Thermoplastic
- Plastic shell temperature range: -55°C to +95°C
- Metallised shell temperature range: -55°C to +125°C

652994

Shell Size	Mftrs. List No.	Order Code	1+	10+	50+	100+
Plastic						
DE	863093C09ALF	207-9365				
DA	863093C15ALF	207-9366				
DB	863093C25ALF	207-9368				
DC	863093C37ALF	207-9369				
DD	863093C50ALF	207-9370				
Metallised Plastic						
DE	863093C09MLF	207-9371				
DA	863093C15MLF	207-9372				
DB	863093C25MLF	207-9373				
DC	863093C37MLF	207-9374				
DD	863093C50MLF	207-9375				

Economy D Hoods

Plastic, Snap or screw together D-Hoods



A range of economy top entry snap together and screw together plastic D-Hoods

- Black or grey plastic
- Long or short screws available

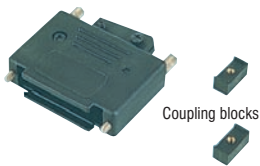
Snap together	Width	Length	Screw together		
9 Way	30.5	39.2	9 Way	31.4	40.2
15 Way	40.1	39.6	15 Way	39.6	35.8
25 Way	53.6	42.1	25 Way	55.0	42.0

238494

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
Snap Together - Black						
9	MHCCOV-9SN-BK	393-7926				
15	MHCCOV-15SN-BK	393-7938				
25	MHCCOV-25SN-BK	393-7940				
Snap Together - Grey						
9	MHCCOV-9SN-LG	393-7951				
15	MHCCOV-15SN-LG	393-7963				
25	MHCCOV-25SN-LG	393-7975				
Screw Together - Black - Short Screw						
9	MHCCOV-9SC-BK	393-7987				
15	MHCCOV-15SC-BK	393-7999				
25	MHCCOV-25SC-BK	393-8001				
Screw Together - Grey - Short Screw						
9	MHCCOV-9SC-LG	393-8013				
15	MHCCOV-15SC-LG	393-8025				
25	MHCCOV-25SC-LG	393-8037				

No. of Mfrs.			Price Each			
Ways	List No.	Order Code	1+	10+	50+	100+
Screw Together - Black - Long Screw						
9	MHCCOV-9SCL-BK	393-8049				
15	MHCCOV-15SCL-BK	393-8050				
25	MHCCOV-25SCL-BK	393-8062				
Screw Together - Grey - Long Screw						
9	MHCCOV-9SCL-LG	393-8074				
15	MHCCOV-15SCL-LG	393-8086				
25	MHCCOV-25SCL-LG	393-8098				

Plastic



A low cost screw together 'D' shell with captive metal jackscrews and external strain relief available in 9, 15, 25 and 37 ways. The body design provides valuable extra space for wiring. Line to line applications are catered for with coupling blocks which enable two in-line shells to be screwed together.

H = 49, W = 33 (9 way), 42 (15 way), 55 (25 way), 71 (37 way), D = 16

Housing Black Thermoplastic,
MDJ9 = 107-5162 MDJ25 = 107-5164 MCB = 107-5166
MDJ15 = 107-5163 MDJ37 = 107-5165

210060

No. of Ways	Order Code	1+	25+	100+	250+	500+	1K+
Screw Together Cover							
9	107-5162						
15	107-5163						
25	107-5164						
37	107-5165						

2 Per Pack

Price Per Pack

Coupling blocks 107-5166

Plastic



- A screw together 'D' shell with slotted and knurled steel jackscrews
- Adjustable strain relief.

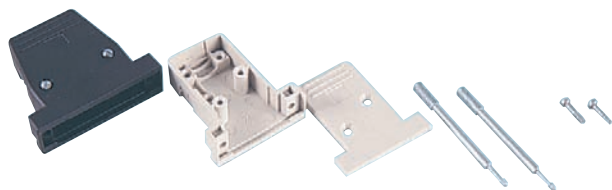
No. of Ways	Dimensions			Mfrs. List No.	Order Code
	H	W	D		
9	36	33	16	DE77762-9	121-5629
15	36	42	16	DA77762-15	121-5630
25	36	55	16	DB77762-25	121-5631
37	36	71	16	DC77762-37	121-5633

Housing Black Thermoplastic,

210077

No. of Ways	Order Code	1+	10+	50+	100+	250+	500+
9	121-5629						
15	121-5630						
25	121-5631						
37	121-5633						

Top or Side Entry



25, 37 and 50 way shape

9 and 15 way shape

- Top or side knockout cable entry
- Two long finger jack screws (59mm)
- Two short jack screws (13mm)
- 4/40 UNC jack screw thread
- Side cable entry only suitable with short jack screws
- Flame retardant UL94V-0 ABS
- Nickel plated steel screws and clamp
- Two countersunk fixing screws
- Wide cable clamp range
- Lip height = 1.0

No. of Ways	Cable Entry Max.		
	H	W	D
9	41	35	17
15	48	43	17
25	48	57	17
37	54	74	17
50	54	70	20

209786

No of ways	Order Code	1+	20+	100+	200+	1K+
Light Grey						
9	955-4343					
15	955-4351					
Black						
9	955-4378					
15	955-4386					
25	955-4394					
37	955-4408					
50	955-4416					

Straight and 45° Cable Entry



- Low profile 45° design
- Turned, full metal 4-40 thumb screws
- Plastics strain relief inserts for cable sizes 3.5mm to 13mm
- Flame retardant black ABS UL94V-0

Mfrs. List No: MHD45PPKx-K = 45° Hood MHDTPPKx-K = Top Entry Hood, Where x = No. of ways

210007

No. of Ways	Top Entry Order Code	45° Entry Order Code	1+	10+	50+	100+	250+
9	358-228	358-083					
15	358-332	358-101					
25	358-381	358-125					
37	358-393	358-198					

Plastic



Box and Lid Straight / 45° exit



- Unshielded cable clamps for HDP20 crimp snap in connectors

Housing Black Thermoplastic
Gates Black Thermoplastic
Screws Black zinc plated steel

210032

No. of Ways	Mfrs. List No.	Order Code	1+	100+	250+	500+
9	207467-1	134-5576				
15	207470-1	134-5588				
25	207345-1	105-5992				
37	207473-1	134-5606				

Metal - Deep Cover



- Top entry metal junction shells
- Deep housing with cable clamp

Mfrs. List No: DE24657 = 118-6661 DB24659 = 118-6662

209672

No. of Ways	Order Code	1+	10+	50+	100+	250+	500+
9	118-6661						
25	118-6662						

EMI/RFI Shielded 'D' Shells

Shielded Plastic D-Sub Hoods



- Includes 4-40UNC Jack screws
- Body material: ABS
- Body plating: Nickel
- Strain relief: Polycarbonate
- Jack screw: Carbon steel

NEW

661667

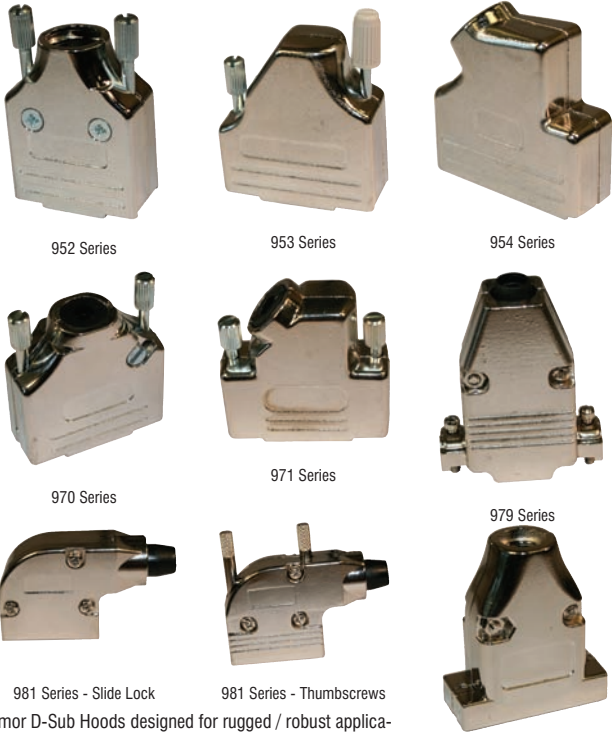
No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	500+
Straight							
9	5-2198617-1	213-1204					
15	5-2198617-2	213-1206					
25	5-2198617-3	213-1207					
37	5-2198617-4	213-1208					

EMI/RFI Shielded 'D' Shells - continued

Shielded Plastic D-Sub Hoods - continued

No. of Mftrs.	Ways	List No.	Order Code	1+	10+	50+	100+	500+
45°								
9	5-2198618-1	213-1209						
15	5-2198618-2	213-1211						
25	5-2198618-3	213-1214						
37	5-2198618-4	213-1215						

ARMOR D-Sub Hood Metal Die Cast



Armor D-Sub Hoods designed for rugged / robust applications. These offer high reliability performance for the most challenging applications

- Material: Zinc
- Plating: Nickel

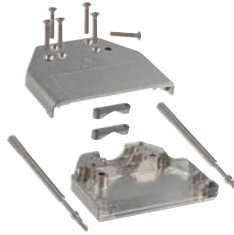
NEW

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	50+
952 Series - Straight						
9	952-009-030R121	212-4409				
15	952-015-030R121	212-4410				
25	952-025-030R121	212-4411				
953 Series - 35°						
9	953-009-030R121	212-4412				
15	953-015-030R121	212-4413				
25	953-025-030R121	212-4414				
954 Series - 45°						
9	954-009-030R121	212-4416				
15	954-015-030R121	212-4417				
25	954-025-030R121	212-4418				
970 Series - Straight						
9	970-009-030R121	212-4419				
15	970-015-030R121	212-4420				
25	970-025-030R121	212-4421				
971 Series - 45°						
9	971-009-030R121	212-4422				
15	971-015-030R121	212-4423				
25	971-025-030R121	212-4424				
979 Series - Straight						
9	979-009-030R121	212-4425				
15	979-015-030R121	212-4426				
25	979-025-030R121	212-4428				

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	50+
981 Series - Straight - Slide Lock						
9	981-009-030R121	212-4429				
981 Series - Straight - Screw Lock						
9	981-009-130R121	212-4430				
994 Series - Straight						
9	994-009-030R121	212-4431				

Straight Exit Metal Back Shells

NEW



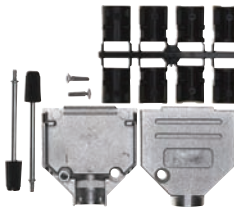
- EMI/RFI shielded
- Housing material: Zinc alloy
- Housing plating: Nickel
- Temperature range: -55°C to +125°C

252729

Shell Size	No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
4-40 UNC Jack Screw							
DE	9/15HD	8655MH0911LF	207-9325				
DA	15	8655MH1511LF	207-9326				
DB	25	8655MH2511LF	207-9327				
DC	37	8655MH3711LF	207-9328				
DD	50	8655MH5011LF	207-9329				
M3 Jack Screw							
DE	9/15HD	8655MH0912LF	207-9330				
DA	15	8655MH1512LF	207-9332				
DB	25	8655MH2512LF	207-9333				
DC	37	8655MH3712LF	207-9334				
DD	50	8655MH5012LF	207-9335				

Metal D Sub Back Shells

NEW



- Cable diameter: 4m to 12mm
- Body material: Zinc diecast
- Body plating: Nickel
- Cable strain relief: Polycarbonate
- Temperature range: -40°C to +120°C

652988

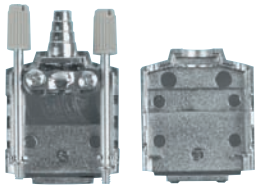
Shell Size	No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
Straight - 4-40 UNC Mounting Screw							
DE	9/15HD	8655MH0901BKLF	207-9336				
DA	15	8655MH1501BKLF	207-9337				
DB	25	8655MH2501BKLF	207-9338				
DC	37	8655MH3701BKLF	207-9339				
Straight - M3 Mounting Screw							
DE	9/15HD	8655MH0902BKLF	207-9340				
DA	15	8655MH1502BKLF	207-9341				
DB	25	8655MH2502BKLF	207-9342				
DC	37	8655MH3702BKLF	207-9344				
Right Angle - 4-40 UNC Mounting Screw							
DE	9/15HD	8655MHRA0901KLF	207-9345				
DA	15	8655MHRA1501KLF	207-9346				
DB	25	8655MHRA2501KLF	207-9347				
DC	37	8655MHRA3701KLF	207-9348				
DD	50	8655MHRA5001KLF	207-9349				
Right Angle - M3 Mounting Screw							
DE	9/15HD	8655MHRA0902KLF	207-9350				
DA	15	8655MHRA1502KLF	207-9351				
DB	25	8655MHRA2502KLF	207-9352				
DC	37	8655MHRA3702KLF	207-9353				
DD	50	8655MHRA5002KLF	207-9354				



TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com

Metallised Plastic Snap together Top entry



A range of Top entry snap together metallised plastic hoods

- Metallised for excellent EMI shielding
- Suitable for all popular D-sub connectors
- Snap together action, No screws
- Manufactured in self extinguishing material
- Highly durable

Order Code	No of ways	Width mm	Height mm	Depth mm
3937800	9	32.5	38.0	15.0
3937811	15	41.0	38.0	15.0
3937823	25	54.5	40.0	15.0
3937835	37	71.0	40.0	15.0

238492

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
9	MHDPPK-M-9-K	393-7800				
15	MHDPPK-M-15-K	393-7811				
25	MHDPPK-M-25-K	393-7823				
37	MHDPPK-M-37-K	393-7835				

Metallised Plastic



9 and 15 Way

25 and 37 Way

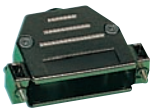
- Nickel plated ABS shell
- Enhanced shielding of cables from RFI/EMI
- Knockout for top or side cable entry
- Supplied with two 59mm and two 13mm jackscrews

No. of Ways	H	W	D	Max. Cable Entry	No. of Ways	H	W	D	Max. Cable Entry
9	41	35	17	6 x 5.5	25	48	57	17	9 x 6
15	48	43	17	9 x 5	37	54	74	17	13 x 6

209826

No. of Ways	Order Code	Price Each			
		1+	25+	50+	100+
9	955-4424				
15	955-4432				
25	955-4440				
37	955-4459				

Black and Metallised Plastic



Top entry hoods with 4.40 UNC locking screws

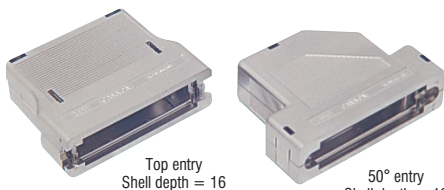
9 way 2,5-7mmØ
15-50 way 4,5-11mmØ



239230

Mfrs. List No.	No. of Ways	Order Code	Price Each			
			1+	10+	50+	100+
Black						
0967 009 0442	9	109-6964				
0967 015 0442	15	109-6966				
0967 025 0442	25	109-6967				
0967 037 0442	37	109-6968				
Metallised						
09 67 009 0443	9	109-6969				
0967 015 0443	15	109-6970				
0967 025 0443	25	109-6971				
0967 037 0443	37	110-6830				
0967 050 0443	50	109-6972				

Metallised Plastic



Top entry
Shell depth = 16

50° entry
Shell depth = 16

The shell consists of two halves which easily snap together. The metallised finish gives protection from EMI/RFI interference.

Housing ABS Polymer Coating Nickel over copper

Mfrs. List No:

9 way	DE-121073-
15 way	DA-121073-
25 way	DB-121073-
37 way	DC-121073-
50 way	DD0121073-

Top Entry	50° Entry
154	54
150	50
151	51
152	52
—	53

210102

No. of Ways	Order Code	Price Each				
		1+	10+	50+	100+	250+
Top Entry						
9	118-8164					
15	118-8166					
25	118-8167					
37	118-8168					
50° Entry						
9	118-8169					
15	118-8170					
25	118-8171					
37	118-8172					
50	118-8312					
Male Screwlock						
Recessed slotted	118-8177					
Finger jackscrew	118-8176					

Metallised Plastic

Straight and 45° Cable Entry



- ABS with nickel over copper plating
- EMC/RFI shielding braid/foil folded back over suitable size strain relief bush
- Range of 5 strain relief bushes per hood
- Accepts foil, lap or braided cable

- No tooling required for shield termination

Shell Dimensions	H		W	D	Cable Entry via 5 Bushes
	Straight	45°			
9 way	35.5	37.2	31.1	16.3	5 - 7.5
15 way	38.8	40.6	39.1	16.3	5 - 8
25 way	42	44.1	53.1	18	5 - 8
37 way	46.5	47.5	69.3	23	8 - 15

209845

No. of Ways	Straight Entry		45° Entry		Price Each		
	Order Code	Order Code	1+	10+	50+	100+	250+
9	746-058	746-060					
15	746-071	746-083					
25	746-095	746-101					
37	746-113	746-125					

Metallised Plastic

Metal Plated Plastic Shield Hoods



- For HDP20 and HDE20 metal shell connectors

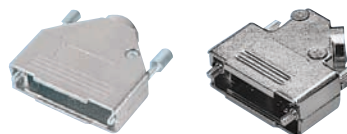
Housing 4-40 screws Jackscrews Thermoplastic nickel plated over copper Steel, zinc plated Steel, zinc plated clear chromate

219866

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	100+	250+
9	5748677-1	109-8416			
15	5748677-2	109-8417			
25	5748677-3	109-8418			

Metallised Plastic

Straight and 45° Cable Entry



- Low profile 45° design
- Turned, full metal 4-40 thumb screws
- Plastic strain relief inserts for cable sizes 3.5mm to 13mm
- ABS with nickel over copper plating

- No tooling required for shielded termination

Mfrs. List No: MHD45PKx-K = 45° Hood MHDTPKx-K = Top Entry Hood, Where x = No. of ways

Metallised Plastic - continued

Straight and 45° Cable Entry - continued

No. of Ways	45° Entry Order Code	Top Entry Order Code	1+	10+	50+	100+	250+
9	357-649	357-728					
15	357-662	357-765					
25	357-698	357-911					
37	357-704	357-984					

Metallised Plastic EMI Junction Shell



- Easy assemble
- Lightweight, compact design
- Supplied with hardware on 4-40 UNC thread, 2 x Jackscrews, 2 x Saddle washers and 2 nuts
- No tooling required for shielding

Material ABS Thermoplastic
Plating

No. of Mftrs.	Ways	List No.	Order Code	1+	10+	50+	100+	300+	500+
9	9	3357-6509-1C	111-6700						
15	15	3357-6515-1C	111-6701						
25	25	3357-6525-1C	111-6703						
37	37	3357-6537-1C	111-6704						

D Sub EMI Junction Shell

Metallised Plastic



- Protection from EMI / ESD
- Easy assembly reduces time and labour for low cost
- Light weight and a compact design
- Strain Relief compensates for multiple cable diameters
- Jack screws provide positive retention
- RoHS compliant

Specifications:-
Shell Material ABS Shell Plating Nickel over Copper
Operating Temp. 0°C to 75°C Flammability Rating UL 94HB

No. of Mftrs.	Ways	List No.	Order Code	1+	10+	50+	100+
9	9	3357-6209-1C	167-2004				
15	15	3357-6215-1C	167-2005				
25	25	3357-6225-1C	167-2006				
37	37	3357-6237-1C	167-2007				

Plastic with Folded Tin Inner Shell

45° Cable Entry



- Plastic head finger jack screws (sold separately)
- Click together hood
- Insulated outer casing
- Substantial cable clamp/ground contact

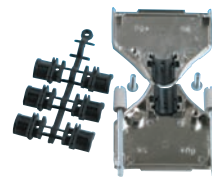
Note: Jack screws must be fitted to lower hood before final assembly

No. of Ways	H	W	D	Cable Entry Max.
9	38.05	31.3	15	8
15	42.05	39.62	15	9
15	42.05	39.62	15	9
25	42.05	53.52	15	11
37	42.05	69.8	19	11

No. of Mftrs.	Ways	List No.	Order Code	1+	10+	50+	100+	250+
9	9	0967 009 0573	109-6954					
15	15	09 67 015 0573	110-6825					
25	25	09 67 025 0573	109-6955					
37	37	0967 037 0573	110-6826					

Jack Screws	List No.	Order Code
0967 000 9971	120-7571	

Diecast Rapid Assembly

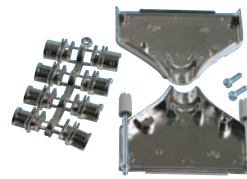


- Nickel plated die cast covers
- High quality plastic capped UNC440 jackscrews
- Rapid assembly strain relief insert
- 360° shielding
- Fully tapped screw holes
- Phillips headed screws

No. of Ways	H	W	D	No. of Ways	H	W	D
9	39.9	1.23	0.59	25	48.6	2.1	0.61
15	41.5	1.56	0.6	37	53.6	2.74	0.61

No. of Ways	Order Code	1+	10+	50+	100+	250+
Nickel						
9	486-1693					
15	486-1700					
25	486-1711					
37	486-1723					

Diecast Rapid Assembly Hi-Grade



- Nickel plated die cast covers
- High quality plastic capped UNC440 jackscrews
- Rapid assembly strain relief insert
- 360° Metallised shielding
- Metallised shielding greatly enhances the performance of the hood
- Fully tapped screw holes
- Phillips headed screws

No. of Ways	H	W	D	Mftrs. List No.	Mftrs. List No.
9	39.9	1.23	0.59	MHDTZK9-RA-HI-K	486-1735
15	41.5	1.56	0.6	MHDTZK15-RA-HI-K	486-1747
25	48.6	2.1	0.61	MHDTZK25-RA-HI-K	486-1759
37	53.6	2.74	0.61	MHDTZK37-RA-HI-K	486-1760

No. of Ways	Order Code	1+	10+	50+	100+	250+
Nickel						
9	486-1735					
15	486-1747					
25	486-1759					
37	486-1760					

Die Cast Sub D Hood System

A range of Die-Cast hoods for sub D connectors to suit all applications with one adaptable product range. This high grade system gives exceptional RFI/EMI shielding and conforms to European and US standards when used as part of an approved system.

Standard Assembly D Hoods - MHDM Series



- Designed with the cable assembler in mind
- Allows fast assembly
- Metallised plastic insert gives 360 degree shielding in cable entry area
- Simple removal of inserts allows reworking or maintenance

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
9	MHDM-9-K	430-3430				
15	MHDM-15-K	430-3441				
25	MHDM-25-K	430-3453				
37	MHDM-37-K	430-3465				

Cone Style D Hoods - MHEE Series



- Well proven shielding system using metallised cone insert
- 360 Degree shielding
- Cone insert can be cut to suit cable size
- Cone easily cut with knife

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
9	MHDM-9-K	430-3430				
15	MHDM-15-K	430-3441				
25	MHDM-25-K	430-3453				
37	MHDM-37-K	430-3465				

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
9	MHEE-9-K	430-3477				
15	MHEE-15-K	430-3489				
25	MHEE-25-K	430-3490				
37	MHEE-37-K	430-3507				

Crimp Style D Hoods - MHC Series



- For use where braided cable is used for a stronger permanent earth path
- Allows pre assembly of the earth connection before assembling the connector and backshell
- Select appropriate ferrule and die size for cable diameter

MHC Series 249078

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
9	MHC-9-K	430-3520				
15	MHC-15-K	430-3532				
25	MHC-25-K	430-3544				
37	MHC-37-K	430-3556				

Ferrule Kits

8.6mm	MHC8.6	430-3600				
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Double Clamp Backshells

DTZI Series



The DTZI series is supplied complete with two internal Cable Clamps, which make it suitable for heavy duty applications. The double Cable Clamp provides strong and secure strain relief which will withstand heavy pull forces.

Key Features:-

- Excellent EMI Shielding
- Re-openable
- Available in sizes 9, 15, 25, 37, 50 way
- RoHS Compliant

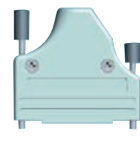
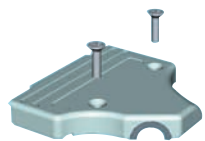
Specifications:-

Current Rating	Zinc, Nickel plated	Voltage Rating	-30°C to 90°C
Cable Entry	Top	Thumbscrews	UNC 4-40 (standard)

528695

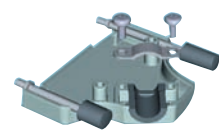
No. of Ways	Mfrs. List No.	Order Code	Price Each				
			1+	10+	25+	50+	100+
9	MHDTZI-09-K	168-8932					
15	MHDTZI-15-K	168-8933					
25	MHDTZI-25-K	168-8934					
37	MHDTZI-37-K	168-8936					
50	MHDTZI-50-K	168-8937					

Diecast MMulti 35° Hood Series



No. of Ways	H	W	D
9	41.3	1.27	0.61
15	43.3	1.6	0.61
25	49.5	2.15	0.61
37	54.3	2.78	0.61

Front profile



Assembly

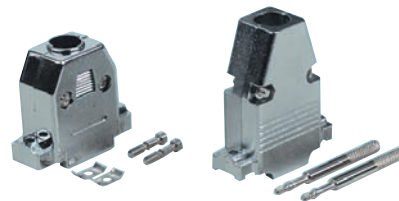
- 35° Cable Entry
- Nickel plated die cast covers
- High quality plastic capped UNC440 jackscrews
- Rapid assembly strain relief insert
- 360° Metallised shielding
- Metallised shielding greatly enhances the performance of the hood
- Fully tapped screw holes
- Phillips headed screws
- Crimp Hood uses ferrule kits from MH Die cast Hood System

335210.343025

No. of Ways	Order Code	Price Each			
		1+	10+	50+	100+
Standard Hood					
9	486-1802				
15	486-1814				
25	486-1826				
37	486-1838				

Economy Metplas and Die cast D-Hoods

Top Entry



A range of Economy Top entry Metallised and die cast D connector Hoods

MHCCOV-9SC-MP	3938140	MHCCOV-15ME	3938165
MHCCOV-15SC-MP	3938116	MHCCOV-25ME	3938177
MHCCOV-25SC-MP	3938128	MHCCOV-9MEL	3938189
MHCCOV-37SC-MP	3938130	MHCCOV-15MEL	3938190
MHCCOV-50SC-MP	3938141	MHCCOV-25MEL	3938207
MHCCOV-9ME	3938153		

238496

No. of Ways	Order Code	Price Each			
		1+	10+	50+	100+
Metallised Plastic - Short Screws					
9	393-8104				
15	393-8116				
25	393-8128				
37	393-8130				
50	393-8141				

Die Cast - Short Screws					
9	393-8153				
15	393-8165				
25	393-8177				

Die Cast - Long Screws					
9	393-8189				
15	393-8190				
25	393-8207				

Die-Cast Backshells

For D-Subminiature connectors



Suitable for high integrity data links in computer peripheral, medical and instrumentation applications

- Straight or 45° cable entry
- Excellent EMI/RFI Shielding
- Lightweight and cost effective
- Supplied with standard cable grommet
- High performance cable grommet available for 360° screening
- Tooling and dies required for high performance grommet

Contact material	Phosphor Bronze	Contact material	Phosphor Bronze
Contact plating	Gold Plated	Insulator material	PBT (Polybutylene terephthalate) UL94V-0
Temperature range	-40°C/120°C to	Shell	Zinc Die Cast

239070

No. of Ways.	Mfrs. List No.	Order Code	Price Each		
			1+	100+	250+
Top Entry Backshells					
9 way	1478762-9	412-9696			
15 way	1-1478762-5	412-9702			
25 way	2-1478762-5	412-9714			
37 way	3-1478762-7	412-9726			
45° Angled entry Backshells					
9 way	0-1478763-9	412-9738			
15 way	1-1478763-5	412-9740			
25 way	2-1478763-5	412-9751			
37 way	3-1478763-7	412-9763			
High Performance Screened Cable Grommet					
6.0 mm	0-1478764-1	412-9775			
7.5mm	0-1478764-2	412-9787			

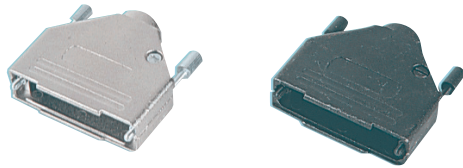
FREE GLOBAL LEGISLATION SUPPORT



RoHS, REACH, WEEE, ErP, Batteries Directive - latest updates, free white papers and live online Q&A at element14.com/legislation

EMI/RFI Shielded 'D' Shells - continued

Diecast



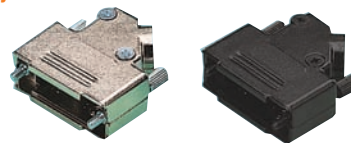
- Lightweight alloy body
- Bright nickel or resilient black chromate finishes
- Spring shielding clamp
- Screening conforms to **VDE 0871, FCC 20780** and EC EMC directive when part of an approved system
- Attenuation >40dB over 30MHz to 1GHz
- Accepts foil or braided cables
- Steel jackscrews (48mm)
- Nickel plated for nickel shells
- Black for black chromate shells
- Instructions supplied
- Wide cable variation, 3.5-13
- Lip height = 1.3

No. of Ways	H	W	D	No. of Ways	H	W	D
9	40	31	15	25	48.6	53.4	15
15	41.5	39.5	15	37	54	70	15

No. of Ways	Order Code	Price Each				
		1+	10+	50+	100+	250+
Nickel						
9	463-012					
15	463-024					
25	463-036					
37	463-048					
Black Chromate						
9	463-050					
15	463-061					
25	463-073					
37	463-085					

No. of Ways	Cable dia (max)	Mfrs. List No.	Order Code	Price Each			
				1+	100+	250+	500+
15	6.09mm	5745652-2	109-8385				
25	10.92mm	5745653-3	109-8386				

45° Cable Entry



- Lightweight zinc diecast shell, nickel plating over copper
- Turned, full metal 4-40 UNC thumb screws
- Low profile design

No. of Ways	Dimension (mm)				No. of Ways	Dimension (mm)			
	A	B	C			A	B	C	
9	36.3	31	14.5		25	40.3	53.2	14.5	
15	40.3	39.5	14.5		37	40.3	69.7	14.5	

Mfrs. List No: D45ZK-xx = Nickel D45ZK-xxb = Black, where xx = No. of ways

No. of Ways	Order Code	Price Each				
		1+	10+	50+	100+	250+
Nickel						
9	633-847					
15	633-859					
25	633-860					
37	633-872					
Black Chromate						
9	633-884					
15	633-896					
25	633-902					
37	633-914					

Diecast

Single or Dual Cable Entry



- Single or dual cable entry
- Steel, zinc plated screws and cable clamp

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	100+	250+	500+
9	1534805-1	105-6338				
15	1534807-1	105-6339				
25	1534809-1	105-6340				
37	1534811-1	105-6341				

Diecast

Diecast Zinc Alloy Shield Hoods



- For HDP20 and HDE20 metal shell connectors

Housing
4-40 screws
Jackscrews

Zinc alloy, Plated
Steel, Zinc Plated
Steel, Zinc Plated Clear
Chromate

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	100+	250+	500+
9	5748676-1	109-8419				
15	5748676-2	109-8413				
25	5748676-3	109-8414				
37	5748676-4	109-8415				

Diecast

90° Exit



- For HDP20 and HDE20 metal shell connectors
- For jacketed cable (two piece)

Housing
4-40 screws
Jackscrews

Zinc alloy, Plated
Steel, Zinc Plated
Stainless Steel

No. of Ways	Mfrs. List No.	Order Code	1+	100+	250+	500+
9	5748676-1	109-8419				
15	5748676-2	109-8413				
25	5748676-3	109-8414				
37	5748676-4	109-8415				

Diecast Shells and Retainers



- Heavy duty die cast shells complete with cable clamp
- Fixing screws and die cast base retainer
- Manufactured from zinc alloy with a polished finish.

No. of Ways	Shell Dimensions					Mfrs. List No.	Order Code
	H	W	D	max dia.			
9	33.5	40.4	16	9.5		RK000250000AL00	111-4093
15	33.5	48.4	16	9.5		217-15H + 217-15R	111-4095
25	39.5	60	16	9.5		RK000270000AL00	111-4096
37	39.5	76.4	16	9.5		RK000280000AL00	111-4097
50	39.9	74.9	18.8	12.7		RK000290000AL00	111-4099

No. of Ways	Order Code	Price Each				
		1+	10+	50+	100+	250+
9	111-4093					
15	111-4095					
25	111-4096					
37	111-4097					
50	111-4099					

'D' Accessories

4-40 UNC Screw Locks



NEW

- Thread: 4-40UNC
- Body material: Brass
- Nut material: Steel
- Body / Nut plating: Nickel

Length (mm)	Mfrs. List No.	Order Code	Price Each			
			1+	10+	100+	500+
2.85mm Nut						
12.7mm	DH-023-2.85	209-9517				
19.3mm	DH-023L2F-2.85	209-9519				
1.9mm Nut						
12.7mm	DH-023	209-9518				
19.3mm	DH-023L2F	209-9520				

Screw Lock Accessories



Male for DA, DE plug or socket; DB, DC socket D20419 121-5323
Female D20418-2 160-8704

D20419 Male D20418-2 Female



209673

	Order Code	Price Per Pack					
		1+	10+	50+	100+	250+	500+
Male	121-5323						
Female	160-8704						

D-sub accessories

Screw/bolt kits



Screw locking kits for HDP20&HDF20 Sub-D connectors.
Kit comprises 2 bolts with nuts, washers and spring washers

	Mftrs. List No.	Order Code
Threaded bolt kit (7.9 mm UNC4-40 / UNC4-40)	167501-2	121-7993
Threaded bolt kit (7.9 mm M3 / M3)	215073-2	122-1120
Threaded bolt kit (14.2 mm UNC4-40 / UNC4-40) (Bolt length, internal, external thread)	215072-2	122-5969

Screw locks, female for HD series

Supply quantity: individual items
Threaded bolt (14.2 mm UNC4-40 / M3 bolt)
Threaded bolt (7.9 mm UNC4-40 / M3 bolt)
Threaded bolt (5.0 mm M3 / M3 bolt)

	Mftrs. List No.	Order Code
	1-0829261-6	120-6767
	829261-6	421-8061
	829068-1	118-7871

243391

Price Each

Mftrs. List No.	Order Code	1+	50+	100+	500+
167501-2	121-7993				
215073-2	122-1120				
215072-2	122-5969				
1-0829261-6	120-6767				
829261-6	421-8061				
828102-1	118-7870				
829068-1	118-7871				

Mounting Accessories



129-7955 Brackets and screws



107-5200 PCB spacer

Brackets For mounting 90° PCB Connectors, two required per connector.
Spacer For mounting straight PCB connectors, two required per connector.

209674

Price Per Pack

Order Code	1+	25+	50+	100+	250+	500+
9, 15, 25, 37 Way (10 Pairs Per Pack) BracketsMP5012	129-7955					

Price Each

Order Multiple=10	10+	100+	250+	500+
SpacersMP5070	107-5200			

Latch Assembly

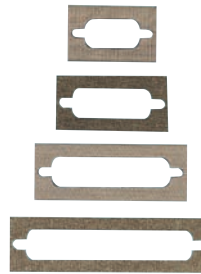


Mftrs. List Nos: D110277 = 118-6663
D110278 = 118-6664

219833

	Order Code	Price Per Pack					
		1+	10+	50+	100+	250+	500+
Plate with springD110277	118-6663						
Retaining plateD110278	118-6664						

Electromagnetic Shielding Gaskets



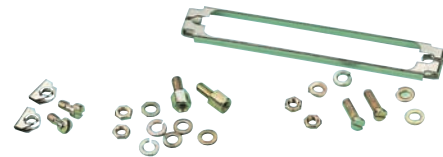
- I/O gaskets provide a ground between metal connectors and enclosure/mating connector
- Ensures continuous shield from cable to enclosure
- Light weight
- Shielding Effectiveness (SE) of 70dB between 1MHz to 18GHz
- UL listed
- Three thickness styles
- Each style available in 'D' sizes 1-5 (9,15,25,37,50 way)

Thickness styles a = 0.3mm (0.012") Die-cut non-woven fabric
b = 1.02mm (0.040") Woven fabric around neoprene

210008

'D' Size	Thickness	Mftrs. List No.	Order Code	Price Each				
				1+	50+	100+	500+	1K+
b	b	267251-1	487-569					
		267252-1	487-594					
3 (25 way)	a	267250-3	487-612					
		267253-1	487-624					
4 (37 way)	a	267250-4	487-648					

Amplimate 'D' Hardware



- All female screw kits fit metal shell or plastic connector and contain 2 assemblies per pack
- Slide latch clip assembly contains 2 per pack
- Latching blocks are supplied 2 per pack

Mftrs. List No.	Description	Suitable For	Order Code
747784-3	2 piece 4-40 jackscrew kit		139-3728
745255-2	2 Spring latches	HDE/HDP	134-5722
745779-2	2 spring latches with post moulded s/relief	HDE/HDP Metal HDF/HD/HDP/HDE	134-5680
745403-8	9-37w latching blocks	HDF/HD/HDP/HDE	134-5692
Mftrs. List No.	Description	Suitable For	Order Code
5205980-1	Male screw retainer kit for Metal shells		109-8377
5745647-1	Male screw kit for plastic shells	HDE/HDP Metal	109-8379
5205817-1	Standard female screwlock kit (Pair)	HDE/Plastic	109-8381
5207719-1	Long female screwlock kit	HDP/PL/Metal	109-8371
5206514-1	2 Locking post assemblies	HDF Plastic	109-8372
5745563-1	Female screwlock kit (all plastic)	HDF/HD/HDP/HDF	109-8451

210024

Price Each

Order Code	1+	100+	250+	500+
5205980-1	109-8377			
5745647-1	109-8379			
5205817-1	109-8381			
5207719-1	109-8371			
5206514-1	109-8372			
5745563-1	109-8451			
745255-2	134-5722			
745779-2	134-5680			

'D' Range Face Plates and Panels

Extruded Aluminium Panels 16 way.

19" Rack Mounting 2U High 9, 15 & 25 way 'D'



H=88, W=483, D=20

- 2mm rigid, extruded aluminium panels
- Front, rear or through 'D' cut outs
- Satin anodised finish
- 3.3mm fixing holes for pop rivets or 4/40UNC
- Easy fit labelling strips
- 2U panels, 16way in 9, 15 & 25 'D'

209846

No. of Ways	Mftrs. List No.	Order Code	Price Each			
			1+	4+	8+	16+
9	KK2ASUBD9	746-022				
25	KK2ASUBD25	746-046				

SCSI & SAS (Serial Attached SCSI)

MINI SAS HD Receptacles



A next-generation SAS high-density high-speed IO interface. This interface was adopted for the SAS 2.1 standard and proposed for SAS 3.0 standard, and is designed to support 6G and future 12G SAS applications.

NEW

- Right angle through hole mounted
- Durability: 250 mating cycles
- Voltage rating: 120V AC
- Contact material: Copper alloy
- Contact plating: Gold
- Shield assembly: Nickel silver copper alloy

661660

No. of No. of Mfrs.	Ways	Ports	List No.	Order Code	1+	10+	25+	50+	100+
Standard									
36	1		2149027-1	213-1156					
72	2		2149966-1	213-1157					
144	4		2149375-1	213-1159					
With Light Pipe									
36	1		2198484-1	213-1161					
72	2		2198483-1	213-1162					
144	4		2180736-1	213-1163					

High Density I/O Connectors

Har-mik 1.27mm Pitch

- SCSI 'One stop shop' solution
- Two mating styles, pin/socket and bellows
- Meets ANSI standards
- Intra cabinet input/output and terminators
- Terminators ensure matched impedance transfer
- Bellows style gives reliable mating and reduced susceptibility to contact damage
- Conforms to Bi-directional parallel interface (IEEE 1284-C)



209945

Insulation-Displacement Terminal Connection



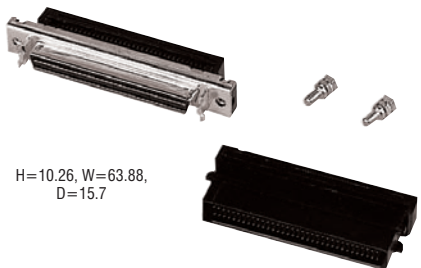
- Male multiway connectors with a grid size of 1.27 mm, specifically for connection of round ribbon cables and individual conductors
- Without interlock

Insulation diameter: 0.65-0.80 mm

239274

Mfrs. List No.	No. of Ways	Order Code	1+	10+	50+	100+
Male multiway connectors						
60 03 050 5210	50	120-7633				
60 03 068 5200	68	182-5861				

Intra Cabinet, Ribbon Cable Connectors



H=10.26, W=63.88, D=15.7



- Female panel mount and male all plastic connectors
- 4 point IDCfork design for accurate termination
- Connector guides for cable alignment

Contact rating 1A
Insulation resistance ≥1000M ohms
Temperature range -20°C to +105°C
Housing Thermoplastic resin UL94V-0
Shell Nickel plated
Contacts Beryllium Copper, Gold / Nickel plated

219859

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
Panel Mount Sockets							
68 (fastwide SCSI)	60 04 068 5343	109-6974					
68 (SCSI-3 wide)	60 04 068 5344	109-6975					
Free Plug							
68 (SCSI-3 wide)	60 06 068 5440	109-6976					
2 Per Pack							
Screw Locks	60 01 000 9019	114-2830					

Straight PCB Socket (Plastic)



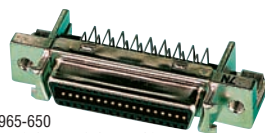
H=8.5,
W=53.2,
D=8.9



209949

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
68 (fast, wide SCSI)	60 05 068 5100	109-6978					

High Density PCB Mount I/O Bellows Contact



965-650
H=9.4, W=52.45, D=16.7

- Har-mik bellows offer good EMI/RFI characteristics
- 'D' shaped polarization
- 36 way complies with IEEE 1284-C specification
- Integral board lock
- UL Recognised



209952

Contact rating A
Temperature range -55°C to +105°C
Moulding Shell Thermoplastic resin UL94V-0
Shell Die cast Zamac nickel plated
Contacts Copper alloy, gold over palladium/ nickel plating

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
90° PCB Sockets - with latches							
26	60 11 026 5140	114-2832					
36	60 11 036 5140	114-2833					

Amplimite .050 Series Headers SCSI



- Compatible with SCSI-2 and SCSI-3 standards
 - Vertical and right angle headers
- Housing Thermoplastic, UL94V-0, Black, SMT compatible
Shell Steel, plated Nickel over Copper
Bracket Zinc, plated Nickel over Copper
Contacts Phosphor Bronze, Gold plated on mating end, Tin plated on solder end

451257

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
Right Angle Receptacle Headers - Through Hole, with Rails and Latches + Boardlocks					
50	1761028-3	128-4371			
68	1761028-4	128-4372			
Right Angle Receptacle Headers - Through Hole, with Boardlocks					
50	5787170-5	128-4373			
68	5787170-7	128-4374			
Vertical Receptacle Headers - Through Hole, with Rails and Latches					
68	5749069-7	128-4377			
Right Angle Receptacle Headers - Through Hole					
68	5749070-7	128-4379			

Amplimite 0.050 Cable Plugs SCSI2



- High density 'D' type interface to mate with SCSI2 receptacles
- Excellent EM/RFI shielding when used with metal backshell kits
- Compatible with SCSI2, EIA RS232 IPI and HIPPI standards

Housing Shell Contacts Wire size Installation dia. Black Thermoplastic, UL94V-0 Phosphor Bronze Plating: Gold (mating end), Tin-lead (termination end) 28-30AWG (0.08-0.09) 0.74-0.91mm, solid or 7 strand

219663

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	10+	50+
26	5749621-2	109-8643			
50	5749621-5	109-8644			
68	5749621-7	109-8645			

SCS12 High Density Connector

PCB Mount Sockets - Right Angle



● High Density SCS12 connector ● 1.27 (0.050") Pitch
 Current Temperature Range -55°C105°C To +
 Insulation resistance M Ω Insulation Material PBT (Polybutylene terephthalate) Glass fibre, reinforced
 Contact resistance 35m Ω Contact Material Phosphor Bronze, Gold over Nickel
 Voltage 250V

236517/406721

No. of Ways	Order Code	Price Each				
		1+	25+	50+	250+	500+
50	109-9271					
68	109-9270					

SCS12 High Density Connector

IDC Ribbon Cable - Plugs



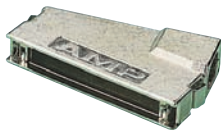
● 1.27 (0.050") Pitch
 ● IDC ribbon connector

Current rating 1A Temperature range -55°C105°C to +
 Insulation Resistance MΩ Insulator Material Glass Filled Polybutylene Terephthalate
 Contact Resistance 35mΩ Contact Material Phosphor Bronze, Gold over Nickel
 Dielectric withstand Voltage 250V @ 1min

236513/406723

No. of Ways	Order Code	Price Each			
		1+	25+	50+	250+
50	109-9275				
68	109-9273				

Amplimate



● Use with 26,50 and 68 way cable plugs
 ● Squeeze to spring latches
 ● Each kit contains 1 each upper and lower backshells and strain relief 2 each spring latches and 2-56 screws

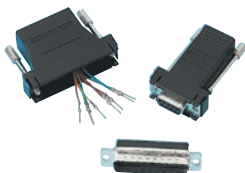
Backshell Zinc plated Nickel Over Copper Strain relief staple Steel plated tin-lead over nickel
 Spring Latch Stainless Steel

210013

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	100+	250+
Angled Exit					
50	5749202-2	109-8651			
68	5749204-2	109-8653			

Adaptors

Modular Jack Adaptors



● One piece polycarbonate shell, housing a modular socket
 ● The modular socket has colour coded crimp-terminations which can be hard wired into the 'D' plug socket and then snapped into the housing
 ● Additional wired cables are available to enable extra pin connections. (647-871 and 648-883).
 ● Moulded in high temperature black polycarbonate to UL94V-0, with easy grip jack screws.

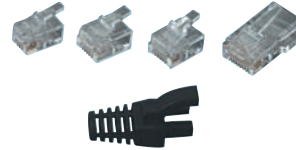
Mfrs. List No.	Farnell Order Code	Mfrs. List No.	Farnell Order Code	Mfrs. List No.	Farnell Order Code
MHDA25-PMJ8-K	429-739	MHDA9-SMJ8-K	647-846	MHDA9-PMJ6-K	647-858
MHDA25-SMJ8-K	429-740	MHDA25-PMJ6-K	647-810	MHDA9-SMJ6-K	647-860
MHDA9-PMJ8-K	647-834				

221471

RJ45 Connections	Order Code	Price Each			
		1+	10+	25+	50+
RJ45 to 25 Way D Plug	429-739				
RJ45 to 25 Way D Socket	429-740				
RJ45 to 9 Way D Plug	647-834				
RJ45 to 9 Way D Socket	647-846				
RJ11 Connections					
RJ11 to 25 Way D Plug	647-810				
RJ11 to 9 Way D Plug	647-858				
RJ11 to 9 Way D Socket	647-860				

FCC-68 Modular Connectors

RJ Modular Plugs and strain relief inserts



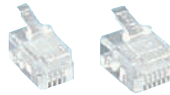
A range of quality RJ series Modular Plugs

● High quality gold plated contacts
 ● Insulation piercing IDC blade contacts
 ● Strain relief is ideal replacement for a moulded boot
 ● Ideal for volume user
 ● Body is glass filled polycarbonate - UL94V-0
 ● Standard crimp tool compatible

238497

Ways / Contacts	Mfrs. List No.	Order Code	Price Each			
			10+	50+	100+	500+
4/4	MHRJ224P4CF	393-8220				
6/4	MHRJ116P4CR	393-8232				
6/6	MHRJ126P6CR	393-8244				
8/8	MHRJ458P8CR	393-8256				
Strain Relief Inserts (only for use with 8/8 contact connector)						
Light Grey	MHRJ45SRI-LG	393-8268				
Black	MHRJ45SRI-BK	393-8270				
Blue	MHRJ45SRI-B	393-8281				
Green	MHRJ45SRI-G	393-8293				
Red	MHRJ45SRI-R	393-8300				
Yellow	MHRJ45SRI-Y	393-8311				

Unshielded Plugs



● Quick and easily terminated connectors
 ● Suitable for use with flat telephone cable.

No. of Ways/Contacts	Type	Length	Width	Mfrs. List No.	Order Code
4/4	-	12.32	7.62	90075-0027	112-5135
6/4	RJ11	12.32	9.65	90075-0035	112-5136
6/6	RJ12	12.32	9.65	90075-0031	112-5137
8/8	RJ45	12.32	11.68	90075-0141	112-5139

209679

No. of Ways/Contacts	Order Code	Price Each		
		1+	100+	250+
Short Body				
4/4	112-5135			
6/4	112-5136			
6/6	112-5137			
8/8	112-5139			

Unshielded Plugs



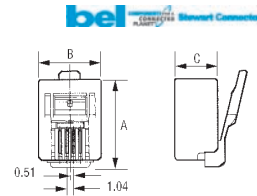
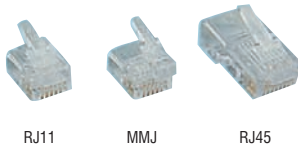
● Suitable for flat cable connection
 Housing: Polycarbonate
 Contact surface: Gold plated, 6µm
 Isolation resistance: 500mΩ
 35mΩ

Mfrs. List No.	Contacts/Loaded	Order Code
P126	4/4	124-3233
P127	/4	124-3234
P128	6/6	124-3235
P129	8/8	124-3236

Unshielded Plugs - continued

Mfrs.	Price Each				
List.No	Order Code	1+	10+	50+	100+
P126	124-3233				
P127	124-3234				
P128	124-3235				
P129	124-3236				

Unshielded Plugs



- Modular plugs featuring mirror smooth contact surfaces with extended mating life
- Datacom and mobile communication applications
- The plugs have dual point contacts and are available in flat, oval or round cable versions
- Approved to **CSA, UL** recognised and manufactured to **FCC** docket 20780.

Contact rating	1.5A @ 30V ac/42V dc	Housing	Clear Polycarbonate, UL94V-0
Contact resistance	10mΩ max.	Contacts	Phosphor Bronze
Dielectric strength	1000V rms	Plating	50µinch gold over 100µinch nickel
Insulation resistance	MΩ min.	Temp. range	-40°C to +125°C
Mating cycles	1000	Suitable wire size	24, 26, 28 AWG, 0.96mm dia.

Mfrs.	No. of Positions	Type	Cable Type	Length A (mm)	Width B (mm)	Height C (mm)	Order Code
Stranded Conductors							
937-SP-3044	4	-	-	13.3	7.6	6.6	429-752
937-SP-3066	6	RJ11	-	13.3	9.6	6.6	429-764
937-SP-3066R	6	RJ11	-	13.3	9.6	6.6	429-776
937-SP-3066R-OST	6	MMJ	-	13.3	9.6	6.6	429-788
937-SP-3066-OST	6	MMJ	-	13.3	9.6	6.6	429-790
937-SP-3088R	8	RJ45	-	22.5	11.7	7.9	429-806
Solid or Stranded Conductors							
940-SP-3066	6	RJ11	-	13.3	9.6	6.6	429-820
940-SP-3066R	6	RJ11	-	13.3	9.6	6.6	429-831
940-SP-3066-OST	6	MMJ	-	13.3	9.6	6.6	429-855
940-SP-3088R	8	RJ45	-	22.5	11.7	7.9	429-867

10 Per Pack		Price Per Pack		
No. of Positions	Order Code	1+	10+	25+
Stranded Conductors				
4	429-752			
6	429-764			
6	429-776			
6	429-788			
6	429-790			
8	429-806			
Solid or Stranded Conductors				
6	429-820			
6	429-831			
6	429-855			
8	429-867			

Modular Plugs



Order Code	171-2384	171-2385	171-2386	171-2387	171-2388	171-2389
Contact Arrangement	4/4	6/4	6/6	8/8	8/8	8/8
Contact Plating	Gold	Gold	Gold	Gold	Gold	Gold
Contact Material	Phosphor Bronze	Phosphor Bronze	Phosphor Bronze	Phosphor Bronze	Phosphor Bronze	Phosphor Bronze
Insulation Material	High Temp. Plastic	High Temp. Plastic	High Temp. Plastic	High Temp. Plastic	High Temp. Plastic	High Temp. Plastic
Current Rating	1A	1A	1A	1.5A	1.5A	1A
Voltage Rating	150V	150V	150V	125V	125V	150V
Withstanding Voltage	750V	500V	500V	1000V	1000V	500V
Contact Resistance	20mohm	20mohm	20mohm	20mohm	20mohm	20mohm
Insulation Resistance						
Flammability Rating	UL94V-0	UL94V-2	UL94V-2	UL94V-0	UL94V-0	UL94V-2
Operating Temp.	-40°C to 125°C	-40°C to 125°C	-40°C to 125°C	-40°C to 85°C	-40°C to 85°C	-40°C to 125°C

555364

Description	Order Code	Price Each				
		10+	50+	100+	500+	5K+
RJ11, 4P4C, Flat Cable	171-2384					
RJ11, 6P4C, Flat Cable	171-2385					
RJ12, 6P6C, Flat Cable	171-2386					
RJ45, 8P8C, Flat Cable	171-2387					
RJ45, 8P8C, Round Cable	171-2388					
RJ45, 8P8C, Shielded, Flat Cable	171-2389					

Unshielded 8 Way RJ45 Plug



Housing	Clear Polycarbonate
Contacts	Phosphor Bronze
Plating	1.27µm gold in localised gold. Plate area, gold flash over the remainder, over 2.54µm nickel
Suitable wire	0.74mm to 0.99mm dia. stranded wire, 26 or 28 AWG with a 5.34mm dia. max. jacket

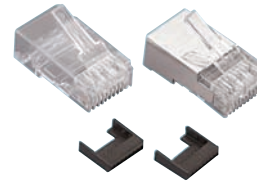


- Unshielded 8 position RJ45 plug ideal for constructing patch leads
- Suitable for terminating round cable

221459

10 Per Pack		Price Per Pack		
Order Code		1+	10+	100+
546-124				

High Performance RJ45 Connectors



Plugs

- Exceed TIA/EIA-568A requirements of UTP applications
- Supplied with a load bar to aid installation with a 1.26mm twist
- Designed 24 AWG stranded cable with a maximum diameter of .99mm

Crimp tool

- Cut and strip blades incorporated within the tool
- Ratchet mechanism

221605

Mfrs.		Price Each			
List No.	Order Code	1+	10+	25+	100+
High Performance Plugs					
UTP	5-558530-3	307-3464			
FTP	5-569552-3	120-5942			
Tooling					
Professional Crimp Tool	3-231652-0	307-3488			

RJ45 Shielded Standard



- Compact shielded Plug
- 8 position, 8 contacts
- Meet FCC Rules and Regulations, part 68
- Accommodates 24 to 28 AWG wire
- Mate with any FCC accepted jacks, shielded or unshielded
- **UL** Recognised and **CSA** Certified

Contact Rating	150V at 1.5A	Material	88
Withstand Voltage	1000VAC	Body	Polycarbonate.
Insulation Resistance	500Mohm	Flamability	UL94V-2
Durability	750 mating cycles	Contact	Phosphor Bronze
Temperature Range	-40°C to 60°C	Contact Plating	Gold / Nickel

334965

		Price Each				
Cable Type	Mfrs. List No.	Order Code	1+	10+	50+	100+
Stranded	5-569532-2	118-7824				
Solid	5-569530-2	473-9565				
Crimp Tool	2-231652-1	218-9483				

RJ45 EMT Shielded Cat5e, for all EMV requirements



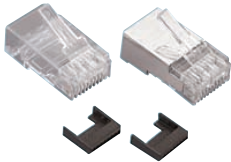
- Very high performance modular plug
- 8 position, 8 contacts
- Suitable for shielded round cable up to 6mm outside diameter: FTP, S-UTP, S-FTP and PIMF
- Shielded contacts using AMP Hex-Crimps to meet the very high demands of the EMV-standards
- Separate external strain relief - 5 colours
- **UL** Recognised and **CSA** Certified

Contact Rating	150V at 1.5A	Material	
Withstand Voltage	1000VAC	Body	Polycarbonate
Insulation Resistance	500Mohm	Flamability	UL94V-2
Durability	750 mating cycles	Contact	Brass
Temperature Range	-40°C to 60°C	Contact Plating	Selective Gold

334967/406725

Description	Mftrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Plug	336330-1	473-9504				
Crimp Tool						
Ergocrimp with Die	539690-1	785-4692				
Strain Relief						
Colour			10+	50+	100+	500+
Grey	737893-2	473-9590				
Red	737893-3	473-9607				
Green	737893-5	473-9620				

RJ45 Shielded Cat5e



- One-piece construction with preloaded contacts
- 8 position, 8 contacts
- Exceed FCC and TIA/EIA-568A requirements
- Accommodates 24 or 26 AWG wire
- Selectively gold plated terminals
- UL Recognised and CSA Certified

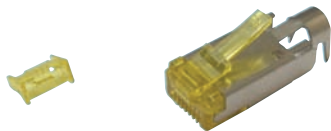
Contact Rating	150V at 1.5A	Material	88
Withstand Voltage	1000VAC	Body	Polycarbonate
Insulation Resistance	500Mohm	Flamability	UL94V-2
Durability	750 mating cycles	Contact	Phosphor Bronze
Temperature Range	-40°C to 60°C	Contact Plating	Gold over Nickel

334966/406724

Description	Mftrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Stranded Cable Plug	5-569552-2	473-9589				
Crimp Tool	3-231652-0	307-3488				

Shielded CAT6a RJ45 Modular Plug

TM31 Series



- Plug design satisfying CAT6a performance
- Wire guide plate helps to provide a simple and quick assembly process
- Steady cable assembly procedure
- 24-27 AWG stranded PIMP cable is applicable
- IDC and clamping process can be implemented by same specific tool (p/n 412-7626)

Current Rating	1A	Voltage Rating	125VAC
Contact Material	Phosphor Bronze	Contact Plating	Gold
LAN Type	Cat6a	Shell Material	Stainless Steel
Operating Temp.	-25°C to 60°C		

549880

Description	Mftrs. List No.	Order Code	Price Each		
			5+	10+	100+
Plug	TM31P-TM-88P(01)	171-9112			
Guide Plate	TM31P-TM-88P(02)	171-9113			
Hand Tool	HT601/TM21P-88P	412-7626			

RJ45 Modular Plugs, EMI Protection

TM11 Series



- Single-body construction incorporating a shell and cable clamp
- Designed for electrostatic prevention with the metal shell covered with a plastic hood.
- EMI protection
- L-Shape or straight (for ganged jacks) plug options

Current Rating	0.5A per contact	Voltage Rating	125VAC per contact
Contact Material	Phosphor Bronze	Contact Plating	Gold
Insulation Resistance		Withstanding Voltage	500VAC r.m.s.
Operating Temp.	-20°C to 60°C	Mating Cycles	200

549884

Description	Mftrs. List No.	Order Code	Price Each		
			5+	10+	100+
L-Shape	TM11APA-88P(03)	171-9114			
Straight	TM11AP1-88P(03)	171-9115			

RJ45 Shielded Modular Plug and Hoods

TM21P Series



- Conforms to requirements of TIA/EIA-568-B data wiring standards
- Satisfies the transmission performance of Enhanced Category 5
- Supporting high-speed LAN transmissions such as Gigabit Ethernet (1000BASE-T) and Fast Ethernet (100BASE-TX)
- The metal shield assures protection against EMI
- Conforming to the ISO 8877 standards (ISDN interface connectors)

Current Rating	1A	Voltage Rating	125V
Contact Plating	Gold	Contact Material	Copper Alloy
Contact Resistance	230mohm	Insulation Resistance	
Operating Temp.	-25°C to 60°C	Flammability Rating	UL94V-2

553091

Description	Mftrs. List No.	Order Code	Price Each				
			1+	50+	150+	300+	500+
RJ45 Plug	TM21P-88P(21)	176-4402					

Description	Mftrs. List No.	Order Code	Price Each				
			5+	50+	150+	300+	500+
Guide Plate for RJ45 Connector	TM21P-88P(22)	176-4403					

Colour	Mftrs. List No.	Order Code	Price Each				
			5+	50+	150+	300+	500+
Light Beige	TM21P-88P(11)	176-4395					
Black	TM21P-88P(13)	176-4396					
Light Grey	TM21P-88P(14)	176-4397					
Red	TM21P-88P(15)	176-4398					
Green	TM21P-88P(16)	176-4399					
Blue	TM21P-88P(17)	176-4400					
Yellow	TM21P-88P(18)	176-4401					

Shielded 8 Way RJ45 Plug



- Shortbody RJ45 plug suitable for CAT5 shielded twisted pair plastic cable.
- Plastic housing has an integrated wire manager
- Loaded IDC terminals have two contact points
- The metal shield ensures optimum protection due to a hex crimp on the cable
- A short grey boot is included

Contact rating	1.5A@ 125V acA125V	Mating cycles	500
Contact resistance	10mΩ max.mohm	Frequency	30 to 150Mhz150MHz
Dielectric strength	1000V rmsV	Housing	Clear Polycarbonate, UL94V-0
Contacts	Phosphor Bronze	Shielding	Brass, tin platedBrass
Plating	1.3µm Gold over Nickel	Suitable wire	28 AWG, 5.4mm O.D.AWG
Insulation resistance	MΩ min.	Temp. range	-40°C to +80°C°C°C

Mftrs. List No. 95043-2891

219838

5 Per Pack Order Code	Price Per Pack				
	1+	5+	20+	50+	100+
997-3885					

Modular Connectors, Cat 6 Plugs



- Designed for solid and stranded conductors
- Meets EIT/TIA Category 6 component standard when terminated to Category 6 compliant cable
- Electro-polished contacts for minimum of 1000 insertion cycles
- Loadbar for ease of assembly
- Field installable with Category 6 termination tool
- Shielded and unshielded plugs available

Plug Body Material	Polycarbonate	Contact Material	Copper Alloy	Contact Plating	Gold	No. of Ways	8	LAN Category	Cat6	Flammability Rating	UL94V-0
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Description	Mftrs. List No.	Order Code	Price Each			
			5+	50+	100+	500+
Unshielded for un-splined cable	SS-39100-008	157-2183				
Unshielded for splined cable	SS-39100-011	157-2184				
Shielded	SS-39200-011	157-2185				

Modular Connectors, Cat 6 - continued

Hand Tools - continued

Jacks



- Preloaded, formed wire contacts offer superior mechanical and electrical performance
- Through hole jacks for PCB soldering
- Designed for Category 6 patch panel and wall jack applications
- Vertical, right angle, shielded and unshielded jacks available
- Minimum of 1000 insertion cycles

Plug Body Material	Contact Material	Contact Plating	No. of Ways	LAN Category	Flammability Rating
Thermoplastic	Copper Alloy	Gold	8	Cat6	UL94V-0

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Vertical, unshielded	SS-60000-007	157-2186				
Vertical, shielded	SS-60000-008	157-2187				
R/A, shielded	SS-60000-009	157-2188				
R/A, unshielded	SS-60000-010	157-2189				

Jacks, Cat 6a

- Easily compensated to CAT6a performance levels through an integrated flexible circuit board design
- Flexible PCB design helps cancel Near End Cross Talk (NEXT) at the plug / jack interface
- Right angle mount, shielded jack
- Minimal secondary compensation required due to the jack's construction
- Selectively plated contacts with 50 micro-inches of gold
- Designed for use in 10 Gigabit Ethernet applications
- UL 94V-0 plastic
- Wave solder compatible

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
R/A, shielded	SS-60300-004	157-2190				

Hand Tools

Professional hand tools for the assembly of shielded and unshielded Cat 6 plugs.

524711

Description	Mfrs. List No.	Order Code	Price Each
			1+
Shielded	2980075-01	157-2198	

Unshielded 10 Way RJ48 Plug



Contact rating 1.5A @ 30V ac/42V dc
 Contact resistance 10mohm
 Mating cycles 1000
 Housing Clear Polycarbonate, UL94V-0
 Contacts Phosphor Bronze
 Plating 50µinch gold over 100µinch nickel
 Conductor ⌀ 0.965mm

- UL recognised - File No. E132408 (N)
- Complies with F.C.C requirements

Mfrs. List No.: 9940SP301010R

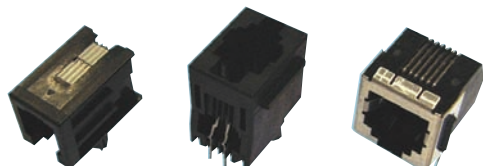
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Order Code	1+	10+	50+	Price Per Pack (5)
				Price Each
RJ48 Plug	112-2287			

Crimp Tool	308-9599	Price Each
		1+
Die Set	121-1551	

Modular Jacks

Shielded and Unshielded



- Unshielded jacks are through hole mount
- Shielded jacks are panel and PCB ground through hole mount

Voltage	150V	Contacts	Phosphor Bronze, Gold plated
Current Rating	1.5A	Durability	750 mating cycles
Housing	Polyester, Black, UL94V-0		

451169

Contacts	Mfrs. List No.	Order Code	Price Each			
			1+	50+	100+	250+
R/A - Through Hole						
4/4	1-1705949-1	128-4335				
6/6	1-1705950-1	128-4337				
8/8	1-1705951-1	128-4338				
R/A - SMT						
6/6	5557314-1	152-2225				
8/8	5555764-1	152-2226				
Top Entry - Through Hole						
4/4	5520257-2	128-4339				
6/6	216548-1	128-4341				
8/8	216550-1	128-4342				
Top Entry - SMT						
8/8	1-338088-3	152-2228				
R/A Shielded - Panel and PCB Ground Through Hole						
6/6	5555140-1	128-4343				
8/8	106066-2	128-4345				

Modular RJ45 Jacks

RJHSE Series



- Shield: Copper
- Plating: Tin/Lead
- Contacts: Phosphor Bronze
- Current Rating: 1.5A
- Voltage Rating: 125VAC
- Dielectric Voltage: 1000VAC

Amphenol

NEW

No. of Ports	LED Colour		Mfrs. List No.	Order Code	Price Each			
	1	2			1+	10+	25+	100+
Vertical Mounted - Non-Shielded								
1	-	-	RJHSE-3080	186-0600				
1	Green	Yellow	RJHSE-3081	186-0601				
1	Green	Green	RJHSE-3085	186-0602				
Vertical Mounted - Shielded								
1	-	-	RJHSE-3380	186-0573				
1	Green	Yellow	RJHSE-3381	186-0575				
1	Red/Grn	Red/Grn	RJHSE-338B	186-0576				
1	Yellow	Green	RJHSE-3384	186-0588				
1	Green	Green	RJHSE-3385	186-0589				
1	Yel/Grn	Yel/Grn	RJHSE-338A	186-0590				
Flat Mounted - Non-Shielded								
1	-	-	RJHSE-5080	186-0577				
1	Yellow	Green	RJHSE-5084	186-0578				
1	Green	Green	RJHSE-5085	186-0579				
1	Red/Grn	Red/Grn	RJHSE-508B	186-0591				
2	Green	Green	RJHSE-5085-02	186-0603				
Flat Mounted - Shielded								
1	-	-	RJHSE-5380	186-0580				
1	Yellow	Green	RJHSE-5384	186-0581				
1	Green	Green	RJHSE-5385	186-0582				
2	Green	Yellow	RJHSE-5381-02	186-0583				
2	Yellow	Green	RJHSE-5384-02	186-0584				
4	Yellow	Green	RJHSE-5384-04	186-0585				
2	Yel/Grn	Yel/Grn	RJHSE-538A-02	186-0587				
1	Red/Grn	Red/Grn	RJHSE-538B	186-0592				
2	-	-	RJHSE-5380-02	186-0605				
4	Green	Yellow	RJHSE-5381-04	186-0606				
2	Green	Green	RJHSE-5385-02	186-0607				
4	Green	Green	RJHSE-5385-04	186-0608				

Modular RJ45 Jacks

FRJAE Series



- Shield: Copper
- Plating: Tin/Lead
- Contacts: Phosphor Bronze
- Insert: Thermoplastic Polyester
- Contacts: 8
- Position: 8
- Current Rating: 1.5A
- Voltage Rating: 125VAC

Amphenol

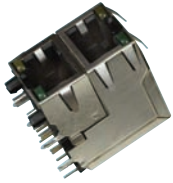
NEW

621264

Description	Mfrs.		Price Each			
	List No.	Order Code	1+	10+	25+	100+
Non filtered, Non shielded	FRJAE-408	186-0593				
Filtered with front tab shield	FRJAE-418	186-0594				
Shield (front tab)	FRJAE-438	186-0595				
Filtered	FRJAE-448	186-0596				
Filtered with rear tab shield	FRJAE-468	186-0597				
Shielded (rear tab)	FRJAE-488	186-0599				

Modular RJ45 Jacks

RJSAE Series



- Shield: Copper
- Plating: Tin/Lead
- Contacts: Phosphor Bronze
- Contacts: 8
- Position: 8
- Current Rating: 1.5A
- Voltage Rating: 125VAC
- Dielectric Voltage: 1000VAC



No. of Ports	LED Colour		Mfrs. List No.	Order Code	Price Each		
	1	2			1+	10+	25+
2	Green	Yellow	RJSAE538102	186-0609			
4	Green	Yellow	RJSAE538104	186-0610			
2	Yel/Grn	Yel/Grn	RJSAE538A02	186-0611			
4	Yel/Grn	Yel/Grn	RJSAE538A04	186-0612			

RJ45 Cat6 / Cat6a Receptacles



Stewart connector single port modular jacks are designed to meet the demanding requirements of high-performance communication environments including the increasing harsh environments that mobile electronics must operate in.

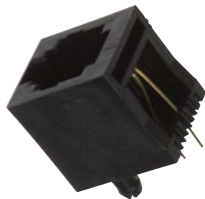
- Current rating: 1.5A
- Voltage rating: 150V AC
- Contact material: Copper alloy
- Contact plating: Selective gold



Shielding	LAN Category	Mfrs. List No.	Order Code	Price Each		
				1+	10+	50+
Right Angle						
Shielded	Cat6	SS60000-009G	190-1284			
UnShielded	Cat6	SS60000-010G	190-1285			
Straight						
Shielded	Cat6a	SS-60300-016	190-1286			

Ruggedised Modular Connector

EPP918A



Bel Stewart's EPP-918A protectant improves product reliability by providing an unprecedented level of defense against harsh environmental conditions. In addition to providing superior moisture, humidity, and corrosion resistance, EPP-918A also shields against wear due to repetitive mating/unmating forces

- Contact material: Copper Alloy
- Contact plating: Gold
- Operating temperature range: -40°C to +85°C



Shielding	Mfrs.		Order Code	Price Each		
	List No.			1+	10+	50+
RJ45 Jacks						
Shielded	SS64800-008G		190-1277			
Unshielded	SS71800-003G		190-1279			
RJ11 Shorting Jacks						
Shorting Pin						
1+2	SS65600-010G		190-1275			
3+4	SS65600-012G		190-1276			

Modular RJ45 Jacks



- Cable mounted jacks suitable for use with Cat5e cable
- Housing material: Thermoplastic
- Contact material: Copper Alloy
- Contact plating: Gold



Shielding	Mfrs.		Order Code	Price Each		
	List No.			1+	10+	50+
RJ45 Jacks						
Shielded	SS64800-008G		190-1277			
Unshielded	SS71800-003G		190-1279			

Description	Mfrs.		Order Code	Price Each		
	List No.			1+	10+	50+
PCB Jack						
Right Angle Through Hole	SS-641010-NF-A115		190-1268			
Cable Ready Jack						
Unshielded	SS-82000-002		190-1272			
Shielded, Ferrule	SS-82100-001		190-1273			
Shielded	SS-82100-003		190-1274			
Crimp Tools						
Ferrule	2912539-01		190-1269			
UTP	2940014-01		190-1270			
FTP	2940016-01		190-1271			

CAT7 Cable Assemblies and ARJ45 Jacks



ARJ45 High Speed Shielded Jack

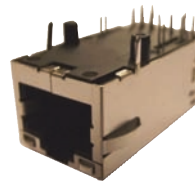
- Right angle through hole mounted
- Housing material: Thermoplastic
- Contact/shield material: Copper Alloy
- Contact plating: Gold
- Cable Assemblies
- CAT7 cable with ARJ45 Plugs



Length (m)	Mfrs.		Order Code	Price Each		
	List No.			1+	5+	10+
Cable Assemblies						
2m	CA77-002M0-8		190-1287			
3m	CA77-003M0-8		190-1288			
5m	CA77-005M0-8		190-1289			
Right Angle PCB Jack						
-	SS-77100-004		190-1290			

MagJack™ Modular Connectors

Right Angle THT Jacks



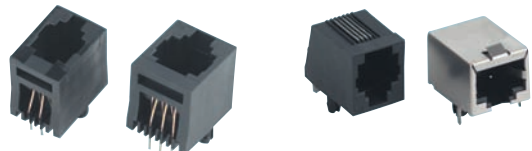
- Plastic Materials: UL 94V-0 rated
- Contact Material: Copper alloy
- Contact Plating: Selective hard gold



LED1	LED2	Number of Ports	Circuit Features	Speed	Mfrs. List No.	Order Code	1+	10+	50+	100+
-	-	1	PoE	10/100Base-T	0813-1X1T-57-F	190-1301				
Yellow	Green/Orange	1	PoE+	10/100Base-T	0826-1X1T-GJ-F	190-1300				
Yellow	Green	1	PoE+	10/100Base-T	SI-52007-F	190-1304				
Yellow	Green/Orange	1	PoE+	1000Base-T	0826-1X1T-GH-F	190-1298				
Yellow	Green/Orange	1	Standard	1000Base-T	L829-1X1T-43	190-1302				
Yellow	Green	1	Standard	1000Base-T	SI-61012-F	190-1299				
Green	Green	2	Standard	1000Base-T	0845-2R1T-E4	190-1303				

Modular Jacks - Vertical and Right Angle

PCB Mount



A range of right angle and vertical PCB mounted modular jacks

- Shielded or Unshielded options
- Compatible with industry standard PCB layouts
- Pre tinned solder terminals

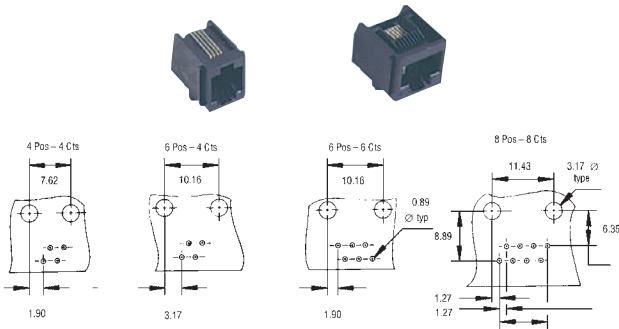
Contact Material	Phosphor Bronze
Contact Plating	Gold over Nickel

Modular Jacks - Vertical and Right Angle - continued

PCB Mount - continued

Contacts	Mfrs. List No.	Order Code	Price Each		
			1+	10+	100+
RA Unshielded					
4/4	MHRJJ44NFRA	393-8335			
6/4	MHRJJ64NFRA	393-8347			
6/6	MHRJJ66NFRA	393-8359			
RA Shielded					
6/6	MHRJJ66NFRAS	393-8372			
8/8	MHRJJ88NFRAS	393-8384			
Vertical Unshielded					
4/4	MHRJJ44NFV	393-8396			
6/4	MHRJJ64NFV	393-8402			
6/6	MHRJJ66NFV	393-8414			
8/8	MHRJJ88NFV	393-8426			
Vertical Shielded					
8/8	MHRJJ88NFVS	393-8438			

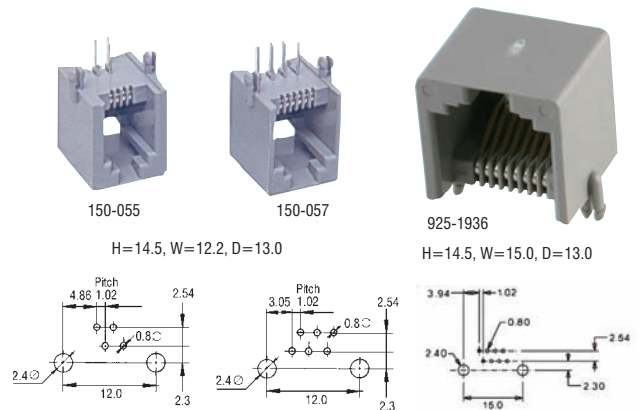
Unshielded Flush Mount Panel / PCB Sockets



Housing	Black Polyester Black UL94V-0	Plating	Level 1 - 30µinch gold	Level 2 - 50-60µinch gold	
Contacts	Phosphor Bronze				
Mfrs. List No.	No. of Ways/Contacts	Plating Level	Socket H W D	Panel Cut-out H W	Order Code
95009-7441	4/4	1	11.56 16.38 20.6	16.38 x 11.56	207-6090
95009-7641	6/4	1	13.59 16.38 20.6	16.38 x 11.56	207-6091
95009-7661	6/6	1	13.59 16.38 20.6	16.38 x 11.56	207-6092
95009-7881	8/8	2	15.62 16.38 20.6	16.38 x 11.56	207-6094

Ways/Contacts	Order Code	Price Each			
		1+	10+	100+	500+
4/4	207-6090				
6/4	207-6091				
6/6	207-6092				
8/8	207-6094				

Unshielded Narrow Profile PCB Sockets

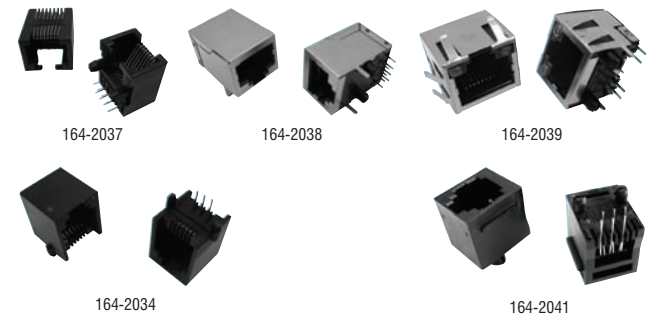


Housing	Grey Glass filled Polyester UL94V-0	Plating	Level 1 - 30µinch gold	Level 2 - 50-60µinch gold	
Contact	Phosphor Bronze. 4µinch gold plated in contact area, over 40µinch nickel plating. Solder area dip tinned.				
Mfrs. List No.	52018-4416=978-6090, 52018-6616=978-6112		52018-6415=978-6104, 52018-8816=121-1012		

No. of Ways/Contacts	Order Code	1+	10+	100+	500+
4/4	978-6090				
6/6	978-6112				
8/8	121-1012				

RJ45 / RJ11 Modular Jacks

WR-MJ Series



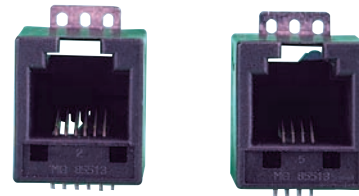
- Right Angle / Vertical Orientation
- Tap up and Tap Down options
- Shielded jacks available
- 500 mating cycles

Specifications:-	1.5A	Withstanding Voltage	1000VAC
Current Rating	1.5A	Contact Plating	Selective Gold
Contact Material	Copper Alloy	Contact Resistance	20mohm
Insulation Resistance	UL94V-0	Operating Temp.	-25°C to 85°C
Flammability Rating	120VAC	Material Insulator	PBT (Polybutylene terephthalate)
Working Voltage			

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
RJ45, Right Angle, Tab Down					
8/8	615008137121	164-2037			
RJ45, Right Angle, Shielded, Tab Down					
8/8	61500814221	164-2038			
RJ45, Right Angle, Shielded, EMI, 2xLED (G/Y), Tab Up					
8/8	615008137421	164-2039			
RJ11, Right Angle, Tab Up					
6/6	615006138421	164-2040			
RJ11, Vertical, with Ears					
6/6	615006138521	164-2041			

Modular Jacks

SMT, Vertical Low Profile

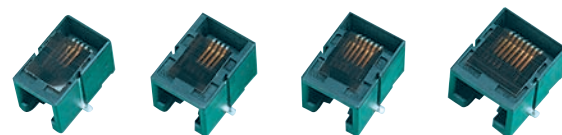


- 0.10mm (.004") coplanarity
 - Recommended PCB thickness 1.57mm (.062")
- | Voltage | 125V | Housing | Black Polyamide 4/6 UL94V-0 |
|-----------------------|------|-------------------|-----------------------------|
| Current Rating | 1.5 | Contacts | Phosphor Bronze |
| Contact Resistance | 20mΩ | Plating | Gold |
| DWV | V | Temperature Range | -40°C to 80°C |
| Insulation Resistance | MΩ | | |

Circuits	Loaded Circuits	Mfrs. List No.	Order Code	Price Each			
				1+	10+	50+	100+
RJ11	6	85513-5014	138-8980				
RJ45	8	85513-5013	134-5055				

Modular Jacks

SMT, Right Angle Low Profile



- Low profile - 11.5mm high
- 0.10mm coplanarity

Voltage	125V	Housing	Black Polyamide 4/6 UL94V-0
Current Rating	1.5A	Contacts	Phosphor Bronze
Contact Resistance	20mΩ	Plating	Gold
Insulation Resistance	MΩ	Temperature Range	-40°C to 80°C

232118

Circuits	Loaded		Mftrs. List No.	Order Code	Price Each			
	Circuits	Circuits			1+	10+	50+	100+
4	4	4	85502-5005	138-8978				
RJ11	4	4	85502-5006	147-1565				
RJ12	6	6	85502-5007	138-8979				
RJ45	8	8	85502-5008	133-1561				

Modular Jacks

Shielded



- Fully shielded connector
- Advanced EMI/RFI protection
- Industry standard footprint
- Mates with industry standard FCC 68 plugs

925-1910

Voltage	125V	Housing	Black Phosphor Bronze UL94V-0
Current Rating	1.5A	Contacts	Phosphor Bronze
Contact Resistance	10mΩ	Plating	Gold
DWV	1000V	Temperature Range	-40°C to 80°C
Insulation Resistance	MΩ		

233718

Circuits	Loaded		Mftrs. List No.	Order Code	Price Each			
	Circuits	Circuits			1+	10+	50+	100+
Right Angle Standard Profile (Cat3)								
8	8	8	044620002	925-1910				
Vertical Standard Profile (Cat3)								
8	8	8	95623-2881	157-2013				
Vertical Low Profile (Cat5)								
8	8	8	85508-5001	160-2634				

Double Modular Jack

SMT, Right Angle Low Profile



- Surface mount solder tab provides retention to the PCB and strain relief for PC tails
- Side-to-side stackable for modular configurations
- 0.15mm max. nail-to-tail coplanarity ensures high reliability during surface mount soldering

Voltage	125V	Housing	Black PA Polyamide (Nylon) UL94V-0
Current Rating	1.5	Contacts	Phosphor Bronze
Contact Resistance	10mΩ	Contact Plating	Gold
DWV	1000V	Temperature Range	-40°C to 80°C
Insulation Resistance	MΩ		

411008

Circuits	Loaded		Mftrs. List No.	Order Code	Price Each			
	Circuits	Circuits			1+	10+	50+	100+
8	8	8	0441930003	925-1901				

High Speed Modular Jacks

Flangeless Low Profile



- Category 5E performance
- Footprint meets industry standard
- Mates with industry standard FCC 68 plugs

Voltage	125V	Insulation Resistance	MΩ
Current Rating	1.5A	Contacts	Phosphor Bronze
Contact Resistance	mΩ	Plating	Gold
DWV	1000V	Temperature Range	-40°C to 80°C

411037

Circuits	Loaded		Mftrs. List No.	Order Code	Price Each			
	Circuits	Circuits			1+	10+	50+	100+
Shielded								
8	8	8	85505-5113	156-0163				
SMT Shielded								
8	8	8	85543-7001	207-6095				

Inverted Modular Jack

Low Profile



- Inverted plug latch on top for easy insertion and extraction
- Mating contacts on bottom of inverted jack provide shorter leads to reduce electrical noise
- Connector designed for through hole PCB mounting and pin-through-paste soldering
- Cat 3 performance

Voltage	125V	Housing	Black PA Polyamide (Nylon) UL94V-0
Current Rating	1.5	Contacts	Phosphor Bronze
Contact Resistance	10mΩ	Contact Plating	Gold
DWV	1000V	Temperature Range	-40°C to 80°C
Insulation Resistance	MΩ		

411086

Circuits	Loaded		Mftrs. List No.	Order Code	Price Each			
	Circuits	Circuits			1+	10+	50+	100+
8	8	8	0438600001	925-1898				

HyperJack™ - RJ45 Type

PoE Plus PSE Connector Module



- Fully integrated PoE and PoE Plus PSE capability
- No External PoE or PoE Plus circuitry required
- 10/100 and Gigabit magnetic capability
- Multiple LED status indicators
- Operating Temperature : -40°C to 80°C
- Forward Voltage : 2.4V at 20mA

Contact Material	Phosphor Bronze	Contact Plating	Gold	No. of Contacts	8	No. of Ports	1	LAN Category	Cat5e	Contact Terminations	Through Hole Right Angle
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619619

List No.	Order Code	Price Each				
		1+	10+	25+	50+	100+
85759-1001	184-4668					

Unshielded 90° PCB Sockets

10 Way - RJ48



- UL recognised and manufactured to FCC requirements

Contact rating	1.5A @ 30V ac/42V dc	Housing	Black Thermoplastic, UL94V-0
Contact resistance	10mΩ max.	Contacts	Copper Alloy
Mating cycles	1000	Plating	30µinch Gold over Nickel

431734

Order Code	Price Each				
	1+	10+	50+	100+	250+
112-2288					

Unshielded, Vertical PCB Sockets



- FCC compliant - part 68, subpart f
- 4-6 and 8-position receptacles
- Horizontal and vertical entry styles
- Drawn wire contacts
- Meets industry standard jack-to-board footprints

- Available with snap or diamond shaped mounting pegs
- FCC approved GXT™ plating
- UL Recognised and CSA approved

Current rating	2 amp dc A	Contact Spring	Phosphor Bronze
Withstanding voltage	1000 kV rms, 60HzV60Hz	Body material	Thermoplastic resin(UL94V-0)UL94V-0
Insulation resistance	M Ohms min	Durability	Black 250 cycles
Contact resistance	20m Ohm maxmohm		

Unshielded, Vertical PCB Sockets - continued

Number of Ways/Contacts	Mftrs. List No.	Order Code	Price Each				
			1+	10+	50+	100+	500+
Vertical Jack - Diamond Peg							
4/4	69253-001LF	109-7907					
6/6	69254-001LF	109-7909					
8/8	69255-001LF	109-7912					
Vertical Jack - Snap Peg							
4/4	90511-001LF	109-7913					
6/6	90512-001LF	109-7914					
6/4	90512-003LF	109-7915					
8/8	90598-001LF	109-7916					

221506

Unshielded, Horizontal PCB Sockets



- FCC compliant - part 68, subpart f
- 4-6 and 8-position receptacles
- Horizontal and vertical entry styles
- Drawn wire contacts
- Meets industry standard jack-to-board footprints
- Available with snap or diamond shaped mounting pegs
- CSA approved and UL Recognised

- FCC approved GXT™ plating

Current rating 2 amp dcA
Withstanding voltage 1000 volts rms, 60HzV60Hz
Insulation resistance Ohms min

EIA/TIA 568A specifications
Contact Plating (Finish) Gold / Nickel
Contact Spring Phosphor Bronze
Body material Thermoplastic ResinUL94V-0 Black
Durability 250 cycles

Contact resistance 20 Ohm maxmohm
Electrical performance meets or exceeds

221505

No. of Ways/Contacts	Mftrs. List No.	Order Code	Price Each				
			1+	10+	50+	100+	500+
Horizontal Low Profile Jack - Snap Peg							
4/4	87180-044LF	109-7902					
6/6	87180-066LF	109-7904					
8/8	87180-088LF	109-7905					
Horizontal Jack - Diamond Peg							
6/6	68898-001LF	109-7906					
6/4	68898-002	153-060					

Shielded Gang Jack



- CSA Approved and UL Recognised
- FCC compliant - part 68, subpart f
- Horizontal RJ-45 style
- Shielded, unshielded, filtered and Category 5 versions available
- Available with 1 or 8 ports

- Drawn wire contacts
- Meets industry standard jack-to-board footprints
- According to the EIA/TIA 568, TSB 31, 40 specifications
- FCC approved GXT™ plating

Current rating 2 amp dcA
Withstanding voltage 1kV rms, 60HzKV60Hz
Insulation resistance Ohms min

EIA/TIA 568A specifications
Contact Plating (Finish) Gold / Nickel
Contact Spring Phosphor Bronze
Body material Thermoplastic ResinUL94V-0 Black
Durability 250 cycles

Contact resistance 20 Ohm maxmohm
Electrical performance meets or exceeds

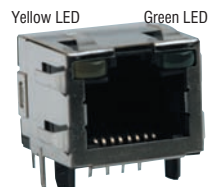
221503

No. of Mftrs. Ports	List No.	Order Code	Price Each				
			1+	10+	50+	100+	500+
Shielded Gang Jack - Snap Peg							
1	94910-001MLF	121-1637					
4	94910-004MLF	109-7898					
8	94910-008MLF	121-1639					

RJ45 Shielded Modular Jack



Inverted with LED's



The LED's are integrated into the modular jack thus eliminating the need for additional system space for indicators. The modular jack functions as transmit/receive with line status and collisions identified by viewing the LED's directly in each port. Recommended applications include Fast Ethernet, 10 Base-T Ethernet and 10/100 BaseT Ethernet (Cat 5 on two pair 1/2, 3/6)

- Compact size with high reliability
- 8 position, 8 contacts
- Meet FCC Rules and Regulations, Part 68
- UL Recognised and CSA Certified

Contact Rating 150V ac max., 1.5A @ 25°C
Withstand Voltage 1000VAC
Insulation Resistance
Durability 750 mating cycles
Temperature Range -40°C to 70°C

Material 88
Body High Temperature Thermoplastic
Flammability UL94V-0
Contact Phosphor Bronze
Contact Plating Gold

334973/406728

Colour	Mftrs. List No.	Order Code	Price Each	
			1+	10+
Yellow/Green	2-406549-1	116-2483		

Double Modular Jack



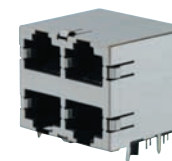
- 8 Position/8 Contacts
- 750 Mating Cycles
- Shielded
- Through Hole Mounting

Voltage 150V
Current Rating 1.5A
Housing Polyester, Black, UL94V-0
Contacts Phosphor Bronze, Gold plated
Durability 750 mating cycles

451194

Configuration	Mftrs. List No.	Order Code	Price Each			
			1+	10+	20+	50+
2 x 1	5569381-1	128-4346				

RJ45 Shielded Stacked Cat5, PCB Mounted Jacks



- Low profile Cat 5 Multi-port
- 8 position, 8 contacts jacks
- 2 rows of either 2 or 4 jacks available
- High temperature polyester (PCT) for IR reflow applications
- UL Recognised and CSA Certified

Voltage Rating 150V max.
Withstand Voltage 1000VAC
Insulation Resistance min.
Durability 750 mating cycles
Temperature Range -40°C to 70°C

Material 88
Flammability UL94V-0
Shield Copper alloy, tin-lead plated
Contact Phosphor Bronze
Contact Plating Gold

334971/406729

Configuration	Mftrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
2 x 2	5569260-1	116-2484				
2 x 4	5569262-1	116-2485				

Cat 5e

Shielded PCB Mount Jack and Plugs



- Meets performance requirements of Cat 5e when link tested up to 250MHz Class E
- Jacks fully shielded with the facility to take ground from the mating plug to the panel and PCB (2 PCB and 6 panel ground points)
- Plugs supplied with black hood and guide plate to assist assembly
- Hood incorporates latch protector and can be fitted after plug assembled onto cable

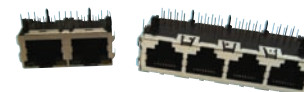
Specification
Voltage Rating 125V AC
Current Rating 1mA
Temperature Range -25°C to +80°C
Insulation Resistance 250mΩ max
Contact Resistance 250mΩ max
Mating Cycles 200
Contacts Copper Alloy Selective Gold
Shield Plate Copper Alloy Tin Plated
Insulation PBT (Polybutylene terephthalate) UL94V-0 Black

Plug
125V AC
1mA
-25°C to +80°C
≥100MΩ
≤230mΩ

238488

Mftrs. List No.	Order Code	Price Each				
		1+	10+	50+	100+	500+
PCB Jack TM21R-5C-88(50)	107-7747					
Plug + Hood TM21P-88P(03)	412-7640					
Hand Tool HT601/TM21P-88P	412-7626					

RJ45 Shielded Modular Jack



- FCC compatible - Part 68, Subpart f
- Fully shielded RJ-45 Jack
- Available with 2, 4, 6 or 8 Ports

Current 1.5 amp dc
Voltage 150 volts rms, 60Hz
Enclosure Nylon, UL94V-0

Contact spring Phosphor Bronze
Colour Black
Operation Temperature -40°C to +80°C

468757

Mfrs.		Price Each					
Ports	List No.	Order Code	1+	10+	50+	100+	500+
2	5406443-1	134-6691					
4	5406203-3	134-6693					
8	5558505-1	134-6697					

Modular Jacks with Integrated Magnetics



MAG 45



- RJ45, 8 Position
 - Through Hole
 - Side Entry
 - **UL recognised, UL 94V-0**
 - IEE 802.3 & ANSI X3.263 compliant
 - Supports all appropriate and available PHY Chips and applications
- Magnetics integrated into connector:
- Less components needed
 - Saves board space
 - Cheaper assembly on PCB (only 1 component)

LEDs	Mfrs. List No.	Order Code
Non - Illuminated	6605759-1	128-4348
Yellow + Green / Orange	1368458-2	128-4351
Yellow / Green	5-6610000-1	128-4353
Green / Green	1-6605834-1	128-4349
Green / Yellow / Green / Yellow	6605444-6	128-4347
Green / Yellow / Green / Yellow	6605814-6	128-4350
Yellow + Green / Orange	1368398-2	128-4352

451200

No. of Ports		Mfrs. List No.	Order Code	1+	10+	20+	50+
10/100 Base T Ethernet							
1		6605759-1	128-4348				
1 (LP)		1368458-2	128-4351				
1 x 2		5-6610000-1	128-4353				
10/100 Power Over Ethernet (POE)							
1		1-6605834-1	128-4349				
Gigabit Ethernet							
1 (TD)		6605444-6	128-4347				
1		6605814-6	128-4350				
1		1368398-2	128-4352				

LP = Low Profile, TD = Tab Down

RJ Modular Jacks



10/100



- LED Indicators
- UL Recognised

Contact Insulator Polyester Temperature Range Phosphor Bronze Thermoplastic polyester 0°C to +70°C Flamability UL 94V-0 Contact Plating Selective Gold

474539

Mfrs. List No.		Order Code	1+	10+	20+	50+
Single Port						
RJMG163217101NR		135-7433				
RJMG163218101NR		135-7435				
RJMG163118101NR		135-7436				

Integrated Connector Modules (ICMs)



10/100 Base



A range of single port RJ45, 10/100Base Ethernet 1:1 turns ratio, integrated connectors to suit most applications for LAN and Telecommunications. They integrate a combination of transformers; common mode chokes (CMC), resistors, capacitors and LEDs. The transformers offer isolation, impedance matching and filtering. The common mode chokes, provide high impedance against common mode signals, while allowing differential mode signals to pass through.

The integration of the components into the RJ45 cuts down on PCB real-estate, allowing smaller product designs, this reduces the component count, and so production component placement cost. Integrating the magnetics also improves the EMC performance by approx 20dB, helping to get the design through the EMC tests first time.

SI-10021

- Tab-down 10/100Base Ethernet Connector
- The first step on saving board space

SI-20039

- 10/100/1000 Ethernet, four pair CMC
- Drop in replacement for a standard RJ45, to dramatically improve EMC

SI-60062-F

- Tab-down, 10/100Base Ethernet, Y/G LED
- Add in LED's to indicate network status

SI-50001

- Tab-up, 10/100Base Ethernet, Y/G LED
- Tab-up to allow better access to the tab, and allow for the LED pins to be away from the Ethernet signal pins.

SI-70002

- 10/100Base Ethernet, Twin USB A, Y/G LED
- Integrate USB A connectors, ideal for single board computers.

249011

Mfrs. List No.		Order Code	1+	10+	50+	100+
SI-60002-F		113-7981				
SI-60008-F		113-7982				
SI-60062-F		113-7983				
SI-50158-F		113-7984				
C893-1DX1-E5		113-7985				

RJ45 Single Port MagJack®



- 10/100/1000 Gigabit Ethernet Jacks
- Plug tab up and tab down
- With or without LEDs and bi-color
- RJ45 and USB port combinations
- Right Angle mount
- Power over Ethernet options
- Extended temperature range of -40°C to +85°C

Specifications:-					
Order Code	157-2191	157-2193	157-2194	157-2195	157-2196
No. of LEDs	2	0	2	2	2
Colour of LEDs	Green / Yellow	-	Yellow / Bi-colour (Green, Yellow, Orange)	Green / Yellow	Yellow / Bi-colour (Green, Orange)
Tab Up / Down	Down	Down	Up	Up	Up
USB	-	-	2 X A	-	-
PoE	-	-	-	Yes	Yes
Contact Material:- Copper Alloy Contact Plating: Gold					

528946

Mfrs. List No.		Order Code	1+	10+	50+	100+
SI-61001-F		157-2191				
SI-61007-F		157-2193				
0862-1J1T-43		157-2194				
SI-52008-F		157-2195				
0826-1X1T-80		157-2196				

Modular RJ45 Panel Couplers



Shielded and Unshielded



- Shielded or Unshielded options
- Compatible with industry standard panel cutouts
- Cat5e

431736

Mfrs. List No.		Order Code	1+	5+	10+
Unshielded					
MH3101-8821		112-2291			
Shielded					
MH3101S-8821		112-2292			

Low Cost Plastic Crimp Tool with Stripper



- Low cost plastic crimping tools
- Contain outer insulation stripping blades with stop gauges
- Just the right amount of outer insulation is removed prior to plug/cable assembly
- Suitable for use on modular/RJ type plugs

221434

No. of Positions/Contacts		Order Code	1+	5+	10+
4/4, 6/4, & 6/6		106-321			
6/4 & 6/6		106-322			

Crimp Tool for FCC-68 Plugs



Ratchet crimp tool

Die set

A full cycling parallel action ratchet crimp tool with manual release and a thumbscrew for replacing dies quickly. Suitable for crimping all Molex unshielded modular plugs. Supplied with full instructions.

Order dies separately.

209799

	No. of Ways/ Contacts/Body Type	Mftrs. List No.	Order Code	Price Each 1+
Ratchet Crimp Tool	-	69008-1150	473-145	
Die Set	4/4 SHORT	69008-1125	473-157	
Die Set	6/6 SHORT	69008-1127	473-170	
Die Set	8/8 SHORT	69008-1129	473-182	
Die Set	8/8 LONG	69008-1103	473-352	

Crimp Tool for RJ45 Plugs



- A full cycling parallel action ratchet crimp tool with manual release and a thumbscrew for replacing dies quickly
- Suitable for crimping all Stewart RJ45 modular plugs. Supplied with full instructions
- Order dies separately

221425

	No. of Positions	Mftrs. List No.	Order Code	Price Each 1+
Crimp tool	-	2980011-01	308-9599	
Die Set	6	2980013-01	308-9617	
Die Set	8	2980015-01	308-9630	
Die Set - Shielded	8	2980017-01	308-9642	
Ferrule crimp tool	-	2980028-01	308-9654	
Ferrule Insert cable OD 5.2mm	-	2980031-01	308-9666	

Crimp Tool for RJ45 Plugs



- Ratchet crimp tool suitable for terminating AMP modular plugs to jacketed cable
- Features spring-actuated handles with cushioned hand grips
- The ratchet release will allow disengagement of the ratchet in the event of a faulty termination.

221457

Mftrs. List No.	Order Code	Price Each 1+	Price Each 10+
734218-3	546-148		

Crimp Tool for Shielded Plug



- A full cycling parallel action ratchet crimp tool with manual release
- Suitable for crimping Molex shielded modular plug 497-861
- Supplied with full instructions

209801

Mftrs. List No.	Order Code	Price Each
69008-1100	473-250	

All-in-One Pro Telephone Tools



Crimping Tools - WE/SS and AMP



Crimps CAT-3 to CAT-6 with one crimping tool. Two models available: Western Electric (WE)/Stewart Stamping (SS) types and AMP (Tyco) for 4 - 6 and 8 position modular telephone plugs.

347127

	Mftrs. List No.	Order Code	Price Each 1+
All-in-one Pro (WE/SS)	1530R	182-9865	
All-in-one Pro (AMP)	1540	748-7690	

Crimp Tool All in One
Amp and WE/SS Style



1346963

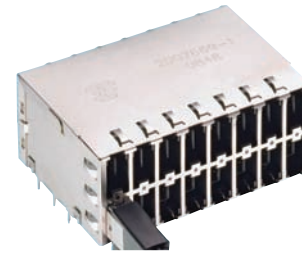


1346964

488316

	Order Code	Price Each
Crimp Tool Amp Style	134-6963	
Crimp Tool WE/SS Style	134-6964	

RJ Point 5, Double Density System



The RJ point five connector system is the next generation Ethernet link, offering a higher density cabling solution for OEM's who desire a lower cost per port while maintaining the convenience of a single connector per channel. It occupies half the space compared to traditional RJ45 Ethernet link.

- Port Spacing: 7mm for Cat5e cabling
- Overall Height: 25.25mm
- Indicator LED's
- RJ point 5 to RJ45 cables available

628752

No. of Ports	Mftrs. List No.	Order Code	Price Each 1+	Price Each 5+	Price Each 10+	Price Each 25+
Receptacle						
16	2007669-2	179-1973				
24	2057004-1	179-1974				
24	2057004-2	179-1975				
16	2057133-1	213-1145				
24	2057134-1	213-1143				

Cable Length (m)	Order Code	Price Each

RJ Point 5 to RJ Point 5			
0.5	2100356-1	179-1978	
1	2100356-2	179-1979	
1.5	2100356-3	179-1980	
2	2100356-4	179-1981	
2.5	2100356-5	179-1982	
3	2100356-6	179-1983	
4	2100356-7	179-1984	
5	2100356-8	179-1985	
7.5	2100356-9	179-1986	
10	1-2100356-0	179-1987	
12.5	1-2100356-1	179-1988	
15	1-2100356-2	179-1991	

RJ Point 5 to RJ45			
0.5	2100357-1	179-1992	
1	2100357-2	179-1993	
1.5	2100357-3	179-1994	
2	2100357-4	179-1995	
2.5	2100357-5	179-1996	
3	2100357-6	179-1997	

No. of Ports	Mftrs. List No.	Order Code	1+	5+	10+	25+
RJ Point 5 to RJ45						
4	2100357-7	179-1998				
5	2100357-8	179-1999				
7.5	2100357-9	179-2000				
10	1-2100357-0	179-2001				
12.5	1-2100357-1	179-2002				
15	1-2100357-2	179-2004				

Sealed / Industrial RJ45 Connectors

Harsh Environment RJ45

Amphenol



NEW

Amphenol's MRJ series represents a unique and innovative RJ connector design. This design provides the ideal solution for network data transfer in harsh and demanding environmental conditions. These connectors are underwater submersible rather than just water resistant in both mated and unmated conditions. They are absolutely unshaken by hostile environmental elements.

- Available with optional integrated LEDs
- Shell: Metal die cast
- Finish: Nickel
- Contact Plating: Gold
- Number of Contacts: 8
- Current Rating: 1.5A
- Voltage Rating: 100VDC
- Dielectric Voltage: 500VAC
- Operating Temperature: -40°C to +105°C

621204

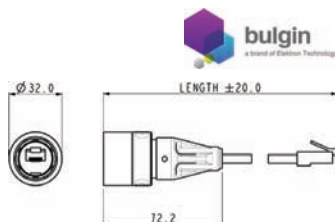
Description	Mftrs. List No.	Order Code	1+	5+	10+	25+
Right Angle, no LEDs	MRJ538001	186-0563				
Right Angle, Yellow/Green LEDs	MRJ538101	186-0564				
Right Angle, Green/Green LEDs	MRJ538501	186-0565				
Vertical, no LEDs	MRJ548001	186-0566				
Vertical, Yellow/Green LEDs	MRJ548101	186-0567				
Vertical, Yellow/Green LED's	MRJ548501	186-0568				
Right Angle, w/ Cable Header, no LEDs	MRJ558001	186-0569				
Right Angle, w/RJ45 Termination, no LEDs	MRJ578001	186-0570				

Accessories

Dust Cap	MRJ258610BP	186-0571				
Boot Plug	MRJ258E11BP	186-0572				

Patch Cord Flex Connector

RJ45 - PUR Jacket Cable



NEW

6000 Series Buccaneer - circular connectors that combine the ease of use of a push/pull coupling mechanism with proven environmental sealing. Designed and independently tested to IP66, IP68 & IP69K standards, they are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important considerations.

- Mates with PXP6033TP type panel mounting connectors
- 30° twist locking
- Overmoulded patchcords with IP rated connector
- Supplied with shielded RJ45 plug
- Single or double end terminated
- S-FTP cable construction
- Wiring configuration to 568-B
- Exceeds EIA/TIA Cat 5e

663356

Lead Length	Mftrs. List No.	Order Code	1+	10+	25+
IP RJ Buccaneer to Shielded RJ45					
2m	PXP6037/2M00	213-3415			
3m	PXP6037/3M00	213-3417			
5m	PXP6037/5M00	213-3418			

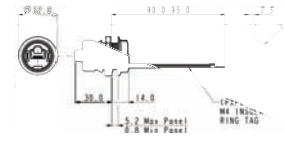
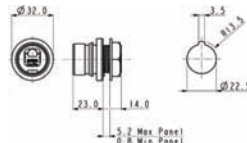
Front Panel Mounting Connector

RJ45



- Sealed through panel
- Cat 5e shielded coupler
- Mates with all plastic flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Version with earth wire available
- Single hole fixing
- Complete with panel sealing gasket

NEW

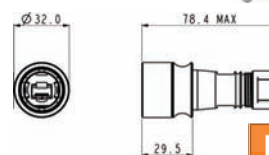


663365

Description	Mftrs. List No.	Order Code	1+	10+	25+
Cat 5e Coupler	PXP6033TP	213-3425			
Cat 5e Coupler + Earth Wire	PXP6033TP/E	213-3426			

Rewireable Flex Connector

RJ45



NEW

- Mates with PXP6033TP type panel mounting connectors
- 30° twist locking
- Supplied with shielded RJ45 plug
- Suitable for use with cables from 3.5 to 8mm diameter

663363

Mftrs. List No.	Order Code	1+	10+	25+
PXP6034/B	213-3414			

IP68 Ethernet Cable Assemblies

NEW

santac



- Colour: Black
- Body material: Liquid crystal polymer
- Contact material: Phosphor bronze
- Contact plating: Gold
- Wire size: 24AWG

654759

Cable Length (m)	Mftrs. List No.	Order Code	1+	5+	10+
Cable Assemblies					
2m	RCE-01-G-02.00-D	208-5286			
3m	RCE-01-G-03.00-D	208-5287			
5m	RCE-01-G-05.00-D	208-5289			
Receptacle - PCB Mount					
Through Hole Right Angle	RPBE-01-01-E	208-5285			

RJ45 Coupler

Har-Port

NEW

HARTING



- Compact and well shaped inter-face, in a timeless attractive design
- Easy mounting
- Transmission rate: 10/100 MBit/s and 1/10Gbit/s
- IP rating: IP20
- Mating cycles: >750
- Housing material: Polyamide

Pushing Performance

651698

Description	Mftrs. List No.	Order Code	1+	10+	25+	50+
RJ45 Coupler	09 45 452 1560	197-2965				
Cover - Black	09 45 502 0000	197-2966				
Cover - Clear	09 45 502 0001	197-2967				

RJ45 Connectors

IP67



- Contact material: Copper
- Plating: Gold
- IP rating: IP67
- Contact resistance: ≤30mΩ
- Insulation resistance: ≥100MΩ
- Durability: 500 cycles min.

NEW

Sealed / Industrial RJ45 Connectors - continued

RJ45 Connectors - continued

IP67 - continued

621277

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Cable Mount, Plug	2TJ3003-W05100	185-0628				
Panel Mount, Jack	2TJ3000-W05100	185-0629				
RJ45 to RJ45 Cable Assembly, 0.6m	2TJ3000-W05102	185-0630				
RJ45 to RJ45 Cable Assembly, 3.5m	2TJ3000-W05103	185-0631				
RJ45 to RJ45 Cable Assembly, 10m	2TJ3000-W05104	185-0632				
Panel Cap	2UB3001-W0000W	185-0633				

RJ45 Modular Plugs



- Number of positions: 8
- IDC fast connection system
- IP rating: IP20
- Flammability: UL94-0V
- Contact material: Copper Alloy
- Contact plating: Gold



NEW

649886

LAN Category	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Cat5e	1656725	207-2389				
Cat6a	1419001	207-2390				

Plug-In Connectors



- IP 67
- Cat.6A throughout for copper connections
- Polyamide V-0
- Marker tag holder



NEW

609527

Mfrs. List No.	Description	Order Code	Price Each			
			1+	10+	25+	50+
1963180000	RJ45 Crimp	182-3217				
1963160000	RJ45 Field Installation	182-3219				
1963490000	RJ45 Coupler	182-3221				
1963900000	Protective Cap	182-3222				

Plug-In Connectors



NEW

609529

Mfrs. List No.	Description	Order Code	Price Each			
			1+	10+	25+	50+
1963600000	Plug A/B/Ind. Ethernet	182-3210				
1018790000	RJ45 Coupling	182-3211				
1018810000	TIA-A Module	182-3212				
1018820000	TIA-B Module	182-3213				
1018840000	USB Coupling	182-3214				
1716630000	Marker Holder	182-3215				
1699860000	Markers	182-3216				

Industrial Ethernet Connectors



Mounting Rail Outlets

FrontCom Micro

Field Install

Weidmüller

Cat 5e Ethernet Buccaneer

IP68 Sealed



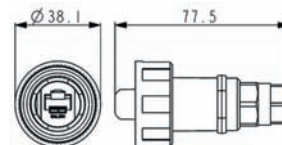
The Ethernet Buccaneer provides a high degree of environmental sealing for Cat 5e Ethernet connections using standard RJ45s. Dust and waterproof to IP68 the Ethernet Buccaneer is ideal for industrial applications where a robust and secure connection is required.

- Dust and waterproof to **IP68**
- Shielded RJ45 connectors to maintain screening
- Flex re-wireable & chassis body styles
- Patch cords conform to Cat 5e standard
- Plug connector is shrouded from accidental damage
- Shroud also provides positive alignment
- Compression gland sealing system
- Sealing caps to maintain **IP68** rating

Sealing	IP68 EN60529 (When mated)/TIA/EIA Rating	Cat 5e
Flammability	UL94V-0	Characteristic Impedance 100Ω ±15Ω at 4MHz to 100MHz
Operating Temps	-40°C To 70°C	Capacitance 1600pF/km
Patch cords		Operating Temp -40°C to +70°C

248485

Re-wireable Flex Cable Connector

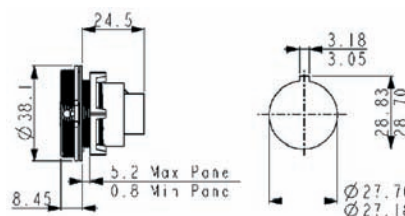


- Re-wireable flex cable connector
- Supplied with shielded RJ45 plug
- Mates with panel mounting connector, PX0833

248500

Mfrs. List No.	Order Code	Price Each		
		1+	25+	50+
PX0834/B	966-7733			

Panel Mount Connector



- Cat 5e shielded coupler
- For use with Ethernet Buccaneer flex connectors
- Standard patchcord can be plugged into rear
- Single hole fixing
- Complete with panel sealing gasket

248534

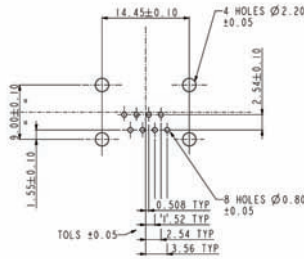
Mfrs. List No.	Order Code	Price Each		
		1+	25+	50+
PX0833	966-7725			

iBuy

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

Panel Mounting Connector PCB Termination



- Cat 5e shielded RJ45 interface
- Rear panel mounting
- Mates with FIO: 9667733, 4285888, 4285890, 4285906, 4285918, 4285920 and 4285931 flex connectors
- For direct mounting to PCB
- Complete with panel sealing gasket

430395

Mfrs. List No.	Order Code	1+	25+	50+
PX0839/PC	116-6679			

Panel Mounting Connector IDC Termination



- Cat 5e shielded RJ45 interface
- Rear panel mounting
- Mates with FIO: 9667733, 4285888, 4285890, 4285906, 4285918, 4285920 and 4285931 flex connectors
- IDC block for discrete termination
- Complete with panel sealing gasket

430396

Mfrs. List No.	Order Code	1+	25+	50+
PX0839/IDC	116-6680			

IP68 Ethernet Buccaneer® PCB Mounting Connector



Rear Panel Mounting



- Cat 5e shielded coupler
- Direct horizontal mounting to PCB, 90° pins
- Flange fixing
- Rear of panel mounting
- Mates with Farnell p/ns 121-1516, 121-1517, 121-1518, 121-1519, 121-1520, 121-1521, 966-7733

528475

Mfrs. List No.	Order Code	1+	25+	50+
PX0839/90	168-7567			

IP68 Ethernet Buccaneer® Panel Mounting Connector



- Cat 5e shielded coupler
- Standard RJ45 patchcord can be plugged into rear
- Flange fixing
- Complete with panel sealing gasket
- Mates with Farnell p/ns 121-1516, 121-1517, 121-1518, 121-1519, 121-1520, 121-1521, 966-7733

528474

Mfrs. List No.	Order Code	1+	25+	50+
PX0870	168-7565			

Ethernet Buccaneer® IP68 Panel Mounting Connector



- Cat 5e shielded coupler
- Standard patchcord can be plugged into rear
- Earth wire
- Single hole fixing
- Complete with panel sealing gasket
- Mates with Farnell p/ns 121-1516, 121-1517, 121-1518, 121-1519, 121-1520, 121-1521, 966-7733

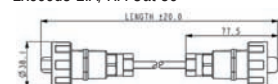
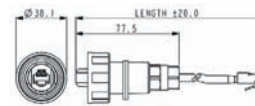
528434

Mfrs. List No.	Order Code	1+	25+	50+	100+	500+
PX0833/E	165-4415					

Patchcords



- Patchcords with IP68 connector
- Supplied with shielded RJ45 plug
- 2m, 3m & 5m lengths
- Mates with panel mounting connector, PX0833
- S-FTP cable construction
- PE jacket cable
- Wiring configuration to 568-B
- Exceeds EIA/TIA Cat 5e



PX0837/2M00	121-1516	2m	Buccaneer to shielded RJ45
PX0837/3M00	121-1517	3m	Buccaneer to shielded RJ45
PX0837/5M00	121-1518	5m	Buccaneer to shielded RJ45
PX0838/2M00	121-1519	2m	Buccaneer to Buccaneer
PX0838/3M00	121-1520	3m	Buccaneer to Buccaneer
PX0838/5M00	121-1521	5m	Buccaneer to Buccaneer

248514

Mfrs. List No.	Length	Order Code	1+	25+	50+
PX0837/2M00	2m	121-1516			
PX0837/3M00	3m	121-1517			
PX0837/5M00	5m	121-1518			
PX0838/2M00	2m	121-1519			
PX0838/3M00	3m	121-1520			
PX0838/5M00	5m	121-1521			

Sealed In-Line Cable Joiner



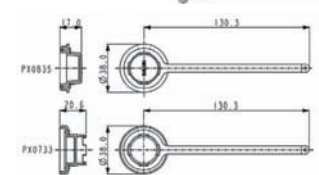
LAN/Ethernet

- IP68 rated
 - For RJ45 connectors
 - Complete with coupler
 - Shielded (STP), Shielded CAT5e and Unshielded (UTP) versions
 - Glands supplied to seal cables from 3.5 to 8mm
- | Current Rating | 1.5A | Material | Glass Filled Polyamide UL94V-0 |
|-------------------|------------------------------|-----------------------------|--------------------------------|
| Voltage Rating | 30V, 42V | Colour | Black |
| No. of Conductors | 8 | Sealing | IPIP68 to BSEN 60529:1977 |
| Cable Range | 3.5 to 8mm (glands supplied) | Operating Temperature Range | -20°C to 70°C |

347547

Type	Mfrs. List No.	Order Code	1+	25+	50+
Unshielded Ethernet	PX0777/UTP	117-2516			
Shielded	PX0777/STP	117-2518			
Shielded, CAT5e	PX0777/CAT5E STP	117-2519			

Sealing Caps



- Sealing caps to maintain IP68 rating when connectors are not in use

Mfrs. List No.	Order Code	Description
PX0835	428-5876	Sealing Cap for PX0831/2/4
PX0733	314-390	Sealing Cap for PX0833

248535

Order Code	1+	25+	50+
428-5876			
314-390			

Sealed / Industrial RJ45 Connectors - continued

RJ Field Sealed RJ45

MIL-C-26482

Amphenol



Transforms regular RJ45 cordset for use in harsh environments. Easy to assemble, the plug adapts a standard RJ45 cordset without the need for tools.

- Sealed against fluid and dusts (IP67)
- Shock, Vibration and Traction resistant
- Suitable for at least 500 mating cycles

Salt Spray 96h
 Flammability / Smoke UL94 V0 and NF F 16 101 & 16 102
 Vibrations 10Hz - 500Hz, 10g, 3 axes: no discontinuity ≤ 10ns
 Shocks IK06: 250g dropped from 40cm onto mated connectors
 Humidity 21 days, 43°C, 98% humidity
 Thermal Shock 5 cycles @ -40°C / +100°C
 Temperature Range -40°C to +85°C

450052

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
Receptacle, Square Flange	RJF 21B	122-0775				
Receptacle, Jam Nut	RJF 71B	122-0786				
Plug Assembly	RJF 6B	122-0790				
Cap for Square Flange Receptacle	RJF C2B	122-0787				
Cap for Jam Nut Receptacle	RJF C7B	122-0788				
Cap for Plug Assembly	RJF C6 B	122-0791				
Panel Gasket	JE18	122-0789				
Removal Tool	RJF ODE	122-0793				

RJ Field Sealed RJ45

Self Closing Cap

Amphenol



- Automatically protects RJ Field square flange receptacles
- Closes when either an RJ Field plug or regular RJ45 cordset is removed from receptacle

450087

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
Nickel and metallised inserts (EMI)	RJF 21 N SCC	122-0794				
Black and blank insert	RJF 21 B SCC	122-0795				

RJ Field Sealed RJ45

MIL-C-26482 Right Angle

Amphenol



Ideal for appliances where panel depth is of a premium

497313

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
RJ45 Square Flange	RJFTV21RAG	142-8230				
RJ45 Square Flange	RJF21RAB	142-8232				

RJ Field Sealed RJ45

Reverse Bayonet

Amphenol



122-0798

122-0799

122-0800



Transforms regular RJ45 cordset for use in harsh environments. Easy to assemble, the plug adapts a standard RJ45 cordset without the need for tools.

- Sealed against fluid and dusts (IP67)
- Shock, Vibration and Traction resistant
- Suitable for at least 500 mating cycles

Salt Spray 1000h
 Flammability / Smoke UL94 V0, NF F 16 101 and DIN 5510-2
 Thermal Shock 5 cycles @ -40°C / +100°C
 Temperature Range -40°C to +85°C

450080

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
Plug	RJF RB 6	122-0798				
Receptacle, Jam Nut	RJF RB 71	122-0799				
90° Receptacle, Jam Nut	RJF RB 71RA	122-0800				
Cap for Receptacle	RJF RB C7	122-0801				

RJ Field TV Sealed RJ45

MIL-C-38999 Series III

Amphenol



Transforms regular RJ45 cordset for use in harsh environments. Easy to assemble, the plug adapts a standard RJ45 cordset without the need for tools.

- Sealed against fluid and dusts (IP67) in mated and unmated conditions
- Shock, Vibration and Traction resistant
- Suitable for at least 500 mating cycles
- Olive Drab Cadmium finish
- Metallised receptacle inserts

Salt Spray 96h
 Flammability / Smoke UL94 V0 and NF F 16 101 & 16 102
 Vibrations NAS 1599
 Shocks IK06: 250g dropped from 40cm onto mated connectors
 Humidity 21 days, 43°C, 98% humidity
 Thermal Shock 5 cycles @ -40°C / +100°C
 Temperature Range -40°C to +85°C

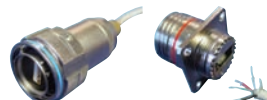
450097

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
Receptacle, Square Flange	RJF TV 21 G	122-0804				
Receptacle, Jam Nut	RJF TV 71 G	122-0805				
Plug Assembly	RJF TV 6M G	122-0802				
Cap for Square Flange Receptacle	RJF TVC 2 G	122-0806				
Cap for Jam Nut Receptacle	RJF TVC 7 G	122-0807				
Cap for Plug Assembly	RJF TVC 6 G	122-0803				
Panel Gasket	JE19	122-0808				
Removal Tool	RJF ODE	122-0793				

RJ Field TV sealed RJ45

MIL-C-38999, Nickel Finish

Amphenol



- Sealed against dust and fluids (IP67)
- Shock, Vibration and Traction resistant
- No cabling operation in field and no tools required
- Mechanical coding/polarization (2 positions)
- Improved EMI protection

- Nickel plated finish

With USB Field, you can insert a standard USB 2.0 cordset into a metallic plug which will protect it from dust, shocks and fluids.

Salt Spray 48h
 Flammability / Smoke and NF F 16 101 & 16 102
 Vibrations 10-500 Hz
 Shocks IK06: 250g dropped from 40cm onto mated connectors
 Humidity 21 days, 43°C, 98% humidity
 Temperature Range -55°C to 85°C

488651

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
Receptacles						
Sealed Flange USB Back Termination	USBF TV 21 N	142-8218				
Sealed Flange Solder Back Termination	USBF TV 22 N	142-8219				
Jam Nut USB Back Termination	USBF TV 71 N	142-8221				
Jam Nut USB Back Term	USBF TV 72 N	142-8223				
Plug						
Plug Assembly	USBF TV 6 N	142-8224				
Accessories						
Plug Assembly Cap	USBF TVC 6 N	142-8225				
Receptacle Square Flange Cap	USBF TVC 2 N	142-8220				
Receptacle Jam Nut Cap	USBF TVC 7 N	142-8222				

RJ Industrial Ethernet

The Modular Harting RJ Industrial® family of connectors is based on the standard RJ45 connector pattern, and is specifically developed for use in harsh industrial environments.

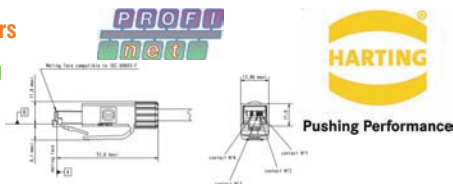
The Harax® rapid termination technology has been proven in many industrial applications. The design of the Harting RJ® family allows for the quick and easy termination and connection to ethernet devices in either data only or hybrid networks.

- IP20, Standard cable connector
- IP67, Push-Pull Connector
- IP67, Hybrid Connector
- IP67, Data3A

Protection level	IP20-67	Cable Sheath Diameter, IP20, IP67, 3A	6.5 - 6.9mm
Wire Size, Flexible	22 AWG	Cable Sheath Diameter, Push-Pull connector	5.8 - 7.2mm
Wire Size, Rigid	22-23 AWG	Mating Cycles	750 >
Temperature Range	- 40°C To + 70°C		

335475/406730

IP20 Data Connectors

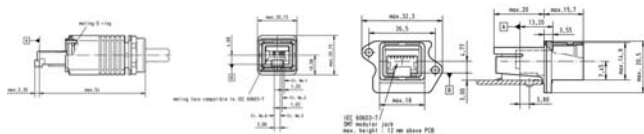
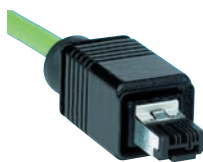


- Smallest RJ45 ethernet connector
- AWG 22 Cables can be connected using IDC technology
- Designed on a 14mm standard grid
- Latching clip makes unlocking connector significantly easier
- Connector set includes housing cable gland, and instruction manual

311946

Mfrs List No.	Order Code	Price Each		
		1+	25+	50+
09 45 151 1100	110-6814			

Push/Pull Connectors IP67



Connector Set:

- Sealed to IP67
- Connector can be locked/unlocked using only one hand
- Very compact housing
- Connector set includes housing, Cable gland and instruction manual

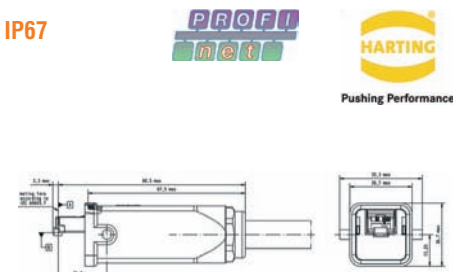
Push/Pull Feed Through:

- Sealed to IP67
- Very compact using only 21 x 27mm of panel space
- Compatible with standard RJ45 connectors for service and test purposes
- Data lines are connected at the rear
- Set includes: housing and instruction manual

311948/406732

Mfrs List No.	Order Code	Price Each		
		1+	25+	50+
Connector Set				
09 45 145 1100	110-6815			
Panel feed through				
09 45 245 1102	117-0278			

Data 3A Connectors IP67

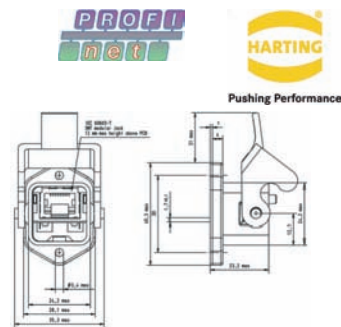


- Based on the Han 3A profile for data and hybrid solutions
- Optional housings give IP65/67 protection
- Plastic or metal housing
- Optional coding prevents incorrect mating up to four different connectors

311950/406733

Mfrs list No.	Order Code	Price Each		
		1+	25+	50+
Plastic Type				
09 45 125 1100	110-6819			
Metal Type				
09 45 115 1100	110-6816			

Panel Feed Through, Data 3A

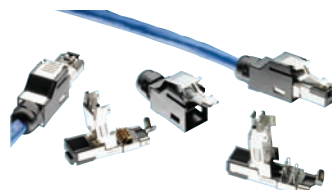


- IP67 data connector in standard Han®3A
- RJ45 Compatible for standard service and test purposes
- Optional coding prevents incorrect mating up to four different connectors
- Plastic or metal housing

311951/406734

Mfrs List No.	Order Code	Price Each		
Plastic Type				
09 45 225 110009 45 225 1100	110-6821	1+	25+	50+
Metal Type				
09 45 215 1100	110-6817			

Industrial Ethernet Field Installable RJ45 Modular Plugs



The category 5e IP20 field installable RJ45 modular plug is designed for use in industrial applications. The 4 way version is capable of data transmission rates of 10/100 Mbits/s, and the 8 way version is capable of 1000 Mbits/s. The tool-less IDC contact design makes it easy to terminate in the field.

Key features:-

- Tool-less IDC termination
- Stainless steel locking tab and rigid plastic case make it ideal for use in harsh environments
- Shielded
- Mates with standard RJ45 modular jacks
- Easy to assemble - only 3 parts
- Accepts cable diameters between 6.3 and 6.7mm
- 4 way - 22 AWG solid and stranded wire
- 8 way - 26 AWG stranded wire
- IP20, UL94V-0

Contact Material	Contact Plating	Rated Current	Rated Voltage	No. of Mating Cycles	Operating Temperature
Copper Alloy	Gold	500mA per pin	24V DC	750	-40 to 70°C

Mfrs. List No.	No. of Ways	Order Code	Price Each		
			1+	25+	50+
1903526-1	4	167-1835			
1903527-1	8	167-1836			

Ind. Ethernet RJ45 Modular Plug Assemblies

1987004-2	8	167-1838			
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Rugged RJ45 Ethernet Connection System Bayonet Locking



Ideal for use in harsh environments where EtherNet protocol is used including manufacturing facilities, water treatment plants and transportation hubs. Designed with one sealing surface, the connectors ensure optimum performance even in harsh environments.

- Bayonet latching for easy connection
- Meets NEMA 6P and IP67 protection ratings
- Meets Open DeviceNet Vendors Association and ControlNets Vendors Association IP specification

386344

RJ-45 Industrial Ethernet connectors and assemblies



- Circular bayonet locking style allows quick and easy connection
- One sealing surface for superior sealing
- Accepts 2.9mm to 6.4mm cable diameters
- Meets NEMA 6P and IP67 protection ratings

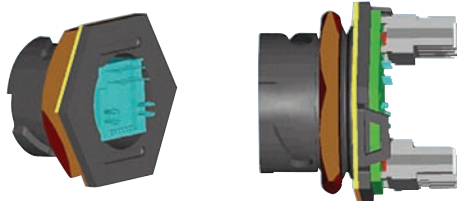
Sealed / Industrial RJ45 Connectors - continued

RJ-45 Industrial Ethernet connectors and assemblies - continued

386320/406736

	Mftrs List No.	Order Code	Price Each		
			1+	25+	50+
Plug	847000002	878-0579			
Receptacle	84700-0001	878-0560			
Dust Cap	847000003	878-0587			

RJ-45 PCB and Panel Mounted Receptacles



PCB Receptacle

Panel Receptacle

PCB Receptacle

- Direct solder to PCB
- Bayonet latching for easy connection
- Meets **NEMA 6P** and **IP67** protection ratings

Panel Receptacle

- Industrial RJ45 ethernet Panel mount jack with punchdown termination
- Bayonet latching for easy connection
- One sealing surface for superior sealing
- Potted versions for extra environmental sealing
- Meets **NEMA 6P** and **IP67** protection ratings

386337/406737

Receptacle	Mftrs List No.	Order Code	Price Each		
			1+	25+	50+
PCB Potted	84702-0007	878-0609			
Panel	84702-0006	878-0617			

Patchcords



- Industrial CAT5e patch cables
- Category 5e specified for high data transmission speeds
- **IP 67** and **NEMA 6P** ratings provide water and dust tight connections
- Mates with Molex panel or PCB mounting receptacles
- One sealing surface gives less likelihood of failure

386339

Length (m)	Mftrs List No	Order Code	Price Each		
			1+	25+	50+
1.8	84702-1006	878-0633			

USB (Universal Serial Bus)

USB Receptacle with latch Type A



NEW
The USB Connector Series for Harsh Environments features a unique locking mechanism in which the latch must be intentionally raised in order to remove the plug. An accidental pull on the cable up to 22 lbs (10kg) force will not separate the connectors.

Applications:

- Medical Equipment
- ATM Machines
- Lottery Terminals
- GPS
- Hand Held Data Loggers
- Military Vehicles
- Military Radios
- Military PDA
- Mobile Entertainment Systems

Specifications:-

Contact Material	Phosphor Bronze	Contact Plating	Gold
Current Rating	1.5A	Dielectric Withstanding Voltage	500V
Shell Material	Nickel Plated Brass Alloy	Operating Temp.	-40°C to 85°C
Insulator Material	High Temp. Thermoplastic	Flammability Rating	UL94V-0
Contact Resistance	30mohm		

609075

Mftrs. List No.	Order Code	Price Each				
		1+	10+	50+	100+	250+
LUSB-A111-00	179-2487					

USB 3.0 Sockets and Cable Assemblies

NEW

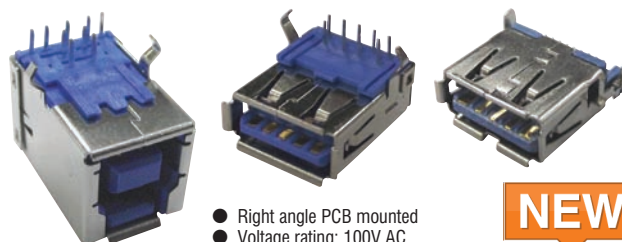


- Contact material: Phosphor bronze
- Contact plating: Gold
- Working voltage: 30 VAC
- Durability: 5000 cycles
- Cable length: 1m

621495

Description	Mftrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Receptacle - Type A - Through Hole						
No offset	692121030100	186-1251				
1.04mm offset	692121230100	186-1252				
Receptacle - Type A - Through Hole - Reverse						
0.14mm offset	692121130100	186-1253				
1.75mm offset	692121330100	186-1254				
Receptacle - Type A - Surface Mount						
Without clip	692122030100	186-1255				
With clip	692112030100	186-1258				
Receptacle - Type A - Dual						
Through hole	692141030100	186-1257				
Receptacle - Type B						
Through hole	692221030100	186-1259				
Receptacle - Type Micro B						
Surface mount	692622030100	186-1260				
Receptacle - Dual USB Type A, Single RJ45						
Through hole	7497110616	186-1265				
Cable Assemblies - USB Type A Plug to			1+	10+	25+	50+
USB Type A Plug	692901100000	186-1261				
USB Type A Socket	692902100000	186-1262				
USB Type B Plug	692903100000	186-1263				
Micro USB Type B Plug	692904100000	186-1264				

USB 3.0 Receptacle Right Angle



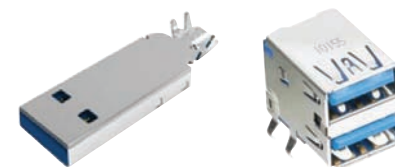
- Right angle PCB mounted
- Voltage rating: 100V AC
- Housing material: Glass filled PBT
- Contact plating: Gold

NEW

638324

USB Type	Mounting Type	Order Code	Price Each			
			1+	10+	50+	100+
Type A	Surface Mount	189-5015				
Type A	Through Hole	189-5016				
Type B	Through Hole	189-5017				

USB 3.0 Type A



NEW

- Backward compatible with USB 2.0
- Supports up to 5Gbps
- PCB though hole mount receptacle
- Contact material: Copper Alloy
- Contact plating: Gold
- Housing material: High temperature thermoplastic

635792

Description	Mftrs. List No.	Order Code	Price Each			
			1+	10+	100+	250+
Plug	1932266-1	187-7697				
Receptacle - Dual Right Angle	1932355-1	187-7698				

USB 3.0 Surface Mount Receptacle



- Through hole PCB mounted
- Power contact current rating: 1.8A
- Signal contact current rating: 0.25A
- Voltage rating: 100VAC
- Contact material: Phosphor Copper
- Contact plating: Gold

638309

Mfrs.		Price Each				
Description	List No.	Order Code	1+	10+	50+	100+
Type A	USB3-A-S-F-TH	189-4074	●			
Type B	USB3-B-S-F-TH	189-4075	●			
Micro AB	UUSB3-AB-S-F-SM-TR	189-4076	●			

USB Plugs and Sockets



- Standard / mini USB
- PCB / SMT mounting options
- Single / Double deck
- Type A / Type B / Type AB
- Vertical / Right Angle
- UL94V-0

Specifications:-

Current Rating	1A	Voltage Rating	30V AC/DC
Withstanding Voltage	750V AC (1 minute)	Contact Plating	Gold
Contact Material	Phosphor Bronze	Contact Resistance	20mohm
Insulation resistance		Operating Temperature	-40°C to 105°C

531563

		Price Each				
Description	Order Code	1+	10+	50+	100+	250+
USB Sockets, Single Deck						
Type A, R/A PCB Mount	169-6534	●				
Type A, Vertical PCB Mount	169-6536	●				
Type B, R/A PCB Mount	169-6537	●				
Type B, Vertical PCB Mount	169-6538	●				
Type A, Kinked, R/A Surface Mount	169-6542	●				
USB Sockets, Double Deck						
Type A, R/A PCB Mount	169-6535	●				
Mini USB Sockets, Single Deck						
Type AB, Vertical Surface Mount	169-6539	●				
Type B, DIP, R/A PCB Mount	169-6540	●				
USB Plugs, Single Deck						
Type A, R/A PCB Mount	169-6544	●				
Type A, R/A Surface Mount	169-6545	●				
Type A, Vertical Surface Mount	169-6546	●				

USB Socket, Type A & B

WR-COM Series



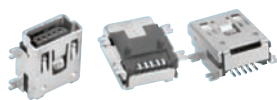
164-2033



164-2040



164-2035



164-2036

Specifications:-

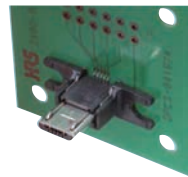
Current Rating	1A	Mating Cycles	1500
Contact Material	Copper Alloy	Contact Plating	Selective Gold
Insulation Resistance		Contact Resistance	20mohm
Flammability Rating	UL94V-0	Operating Temp.	-40°C to 105°C
Working Voltage	30VAC	Material Insulator	PTB / LCP (Mini USB)
Withstanding Voltage	750VAC		

601679

Mfrs. List No.	Order Code	1+	10+	50+	Price Each
USB Type A, Right Angle					
61400416021	164-2033	●			
USB Type A, Vertical, Flag					
614004134726	184-1167	●			
USB Type A, Vertical					
614004135023	184-1168	●			
USB Type A, Vertical, Double					
614008235023	184-1169	●			
USB Type A, Dual Stacked, Right Angle					
61400826021	164-2034	●			
USB Type B, Right Angle					
61400416121	164-2035	●			
USB Type B, Vertical					
61400413321	184-1165	●			
Mini USB Type B, SMT, Right Angle					
65100516121	164-2036	●			
Mini USB Type B, Vertical					
651005136421	184-1175	●			

Micro-USB Connectors

ZX Series



- Type B Plug
- High durability
- PCB Mount
- Option for stainless steel spring lock

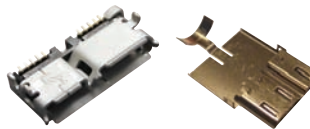
Specifications:-

Current Rating	1A per contact	Voltage Rating	30VAC
Contact Material	Copper Alloy	Contact Plating	Gold
Insulator Material	Synthetic Resin	Shell Material	Stainless Steel
Operating Temp.	-30°C to 85°C		

549870

		Price Each					
Description	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
With Lock	ZX80-B-5S	171-9110	●				
Without Lock	ZX80-B-5SA	171-9111	●				

Micro USB 3.0 Type B



- High speed transmission upto 5 Gbps
- Mating compatibility with Micro USB 2.0
- No. of contacts: 10
- Contact material: Copper alloy
- Contact plating: Gold
- Plug requires shield can

626423

Mfrs.		Price Each			
Description	List No.	Order Code	1+	10+	100+
Surface Mount Socket	ZX360D-B-10P	187-4399	●		
Cable Mount Plug	ZX360-B-10S-UNIT	187-4401	●		
Shield Can	ZX360-B-SLDA	187-4400	●		

Micro USB

ZX Series



Current Rating	A
Voltage Rating	V AC
Operating Temperature	°C to °C
Durability	10,000 cycles
Contacts	Copper Alloy

- Micro USB compliant connector
- Maintains high retention forces over 10,000 mating life cycle
- Micro USB saves approximately 25% PCB space

491388

		Price Each			
No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
Micro USB					
Receptacle USB B Type	ZX62-B-5PA(11)	164-5325	●		
Plug	ZX20-B-5S	142-5723	●		
Shield	ZX20-B-SLDC	142-5724	●		
Cable Assembly	ZX40-B-5S-1000-STDA	142-5725	●		

USB (Universal Serial Bus) - continued

USB Interfaces

USB Series



175-3808



175-3809

- A and B types available
- Higher retention than standard USBs
- Through Hole

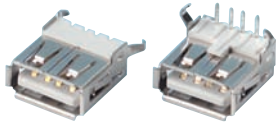
Specifications:-

Contact Material	Phosphor Bronze	Contact Plating	Gold
Insulator Material	High Temp. Thermoplastic	Contact Resistance	30mohm
Current Rating	1A per contact	Voltage Rating	30Vrms
No. of Mating Cycles	1500	No. of Ways	4
Operating Temp.	-50°C to 85°C		

546784

No. of Ways	Type	Mftrs. List No.	Order Code	1+	10+	50+	100+	500+
4	A	USBR-A-S-S-O-TH	175-3808					
4	B	USBR-B-S-S-O-TH	175-3809					

USB 2.0



- USB 2.0

Housing: Brass, Nickel plated
 Insulation: PBT Glass Filled
 Solder Pin: Brass, Tin Plated
 Contact Spring: Brass, Gold plated

Contact Resistance:	≤30mΩ	Test Voltage:	500V@60s
Rated Current:	1A	Insulation Resistance:	≥108Ω
Rated Voltage:	30VAC	Temperature Range:	-25°C to +85°C

239539/406473

Mftrs. List No.	Order Code	1+	10+	50+	100+

USB Sockets

Type A: Vertical PCB Mount - Single - 4 Pole

2410 01 117-7882

Type A: RA PCB Mount - Single - 4 Pole

2410 02 117-7883

Type A: RA PCB Mount - Double - 4 Pole

2410 03 119-6550

Type B: Vertical PCB Mount - Single - 4 Pole

2411 01 117-7884

Type B: RA PCB Mount - Single - 4 Pole

2411 02 117-7885

USB Cable Assemblies A - B

A to B 2.0m

2431 02 124-3239

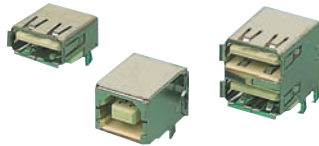
A to B 3.0m

2431 03 119-6551

A to B 5.0m

2431 05 124-3241

Receptacles



- 4 and 5 pin receptacles available
- Through-hole and SMT
- With or without back shielding
- A and B types
- A type in single and double deck
- UL approved

Insulation resistance	MΩ min.initial	Temperature range	0°C to +40°C
Withstanding voltage	750V ac (rms), 60 Hz	Housing	Phosphor Bronze, plated
Current rating	1A max.	Insulator	Moulded Plastic UL94V-0
Contact resistance	30mohmsΩ max.initial	Plating (contact)	0.76um (30uin) PaNi Contact
Contact capacitance	2pF max.	(tails)	2.54um (100uin) tin-lead Solder tail

209991

No. of Ways	Mftrs. List No.	Order Code	1+	100+	500+	1K+
Thru Mount - Style A						
4 Position Double Deck	72309-8034BLF	109-7895				
Surface Mount - Style A						
4 Position, Single Deck	87583-2010BLF	SMD 131-4363				
Thru Mount - Style B						
4 Position, Single Deck	61729-0010BLF	109-7897				

Mini USB Interfaces

MUSB Series



- B and AB types available
- Surface Mount

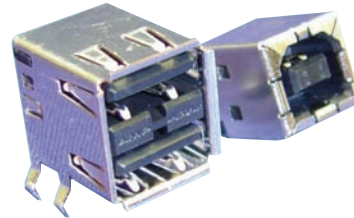
Specifications:-

Contact Material	Phosphor Bronze	Contact Plating	Gold
Insulator Material	High Temp. Thermoplastic	Contact Resistance	50mohm
Current Rating	1A per contact	Voltage Rating	30Vrms
No. of Mating Cycles	1500	No. of Ways	5
Operating Temp.	-50°C to 85°C		

546778

No. of Ways	Type	Mftrs. List No.	Order Code	1+	10+	50+	100+	500+
5	B	MUSB-05-S-B-SM-A	175-3806					
5	AB	MUSB-05-S-AB-SM-A	175-3807					

USB Receptacle



419671

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
Right Angle Through Hole - Type A						
4	292303-1	107-6663				
4+4 Stacked	5787617-1	107-6664				
Vertical Through Hole - Type A						
4	292336-1	107-6667				
Right Angle Through Hole - Type B						
4	292304-1	107-6665				
Vertical Through Hole - Type B						
4	5787834-1	107-6666				
SMT - Type B						
4	1734346-1	SMD 132-1918				

Mini-USB Type B Receptacle Connector



- Improved rear shell for EMI shielding
- Reduced mounting area
- Pre-loaded contacts
- High contact pressure
- Interface contamination removed by wiping contacts

Insulator Material	Heat Resistant Plastic	Contact Material	Copper Alloy	Contact Plating	Au (0.75µm Min.)	Current Rating	1A	Voltage Rating	30V AC/DC	Operating Temperature	0°C bis 50°C
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523671

Mftrs. List No.	No. of Ways	Order Code	1+	10+	50+
24 5141 005 000 863+	5	155-8179			

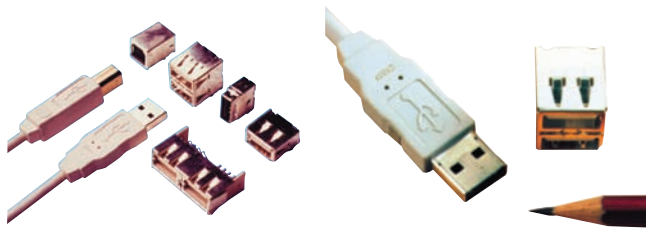
USB 2.0 Cable Assemblies



419674

Cable Length (m)	Mftrs. List No.	Order Code	1+	10+	50+	100+
Type A to Type B						
1m	1487587-1	107-6669				
1.5m	1487588-2	107-6671				
2m	1487588-1	107-6672				

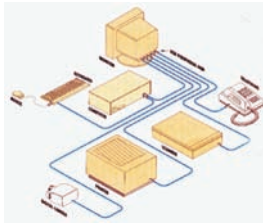
USB Cable Assemblies



molex

- High quality cable assemblies
- Various cable lengths available

Function: Serial, bidirectional data bus for networking different peripherals
 Number of appliances: up to 127 on one bus
 Additional function: Power supply transmission (for IEEE 1394)
 Transmission rate: 12 Mbit/s (standard); 1.5 Mbit (slow) per segment, maximum 0.83m
 Cable length: 4-core, shielded
 Bus lines: Series A and B avoids loop formation
 Plug connector: 245799/407904



Mfrs. List No.	Order Code	1+	5+	Price Each
USB 'A-B' cable, 0.83 m	120-1896			
USB 'A-B' cable, 1.30 m	120-1897			
USB 'A-B' cable, 2.00 m	121-1028			
USB 'A-B' cable, 3.30 m	120-1898			

USB - On The Go Connectors and Cable Assemblies

molex



- Approximately 1/8th the size of standard USB connectors
- Cable Assemblies have 5 pin design (one ID pin)
- Cable Assemblies are fully shielded for EMI protection
- Fully compliant with current USB 2.0 specifications
- Operates at speeds up to 480 Mbps
- Rugged durability up to 5000 cycles
- Connector, Order Code 4768334 has additional back cover shielding

OTG connectors can be used to enable mobile devices such as digital cameras, PDAs, audio players, printers and cellular phones to exchange data directly without the need for a host PC. The new OTG technology also enables mobile products to become "dual-role" devices, serving as either host or peripheral.

335213/406744

Description	List No.	Order Code	1+	25+	50+	100+	500+	Price Each
Connectors								
Mini AB Receptacle	565790519	112-5347						
Mini AB Socket	56579-0576	SMD978-6490						
Mini B Socket	548190519	978-6465						
Mini B Socket-Cover Tape	548190572	SMD978-6473						
Mini B Receptacle-Cover Tape	675031020	SMD112-5348						
Mini B Receptacle, vertical	500075-1517	112-5349						
Cable Assemblies (male/male) - 1.0m long								
USB Type A to Mini B	88732-8600	122-1070						
USB Type A to Mini B	88732-8602	122-1071						

Micro USB Receptacles

molex



Micro USB supports the current USB On-The-Go supplement, this allows communication between portable devices without going through a host. Being much smaller than the Mini-USB, the Micro-USB is the choice of mobile phone makers.

- Mating cycles over 10000
- Stainless steel shell provides high mating durability and strength
- Shell tabs enhance PCB retention

Current Rating: 1 A
 Voltage Rating: 100V AC
 Operating Temperature: -20°C to 85°C
 Durability: 10,000 cycles
 Contacts: Copper Alloy

510577

Description	Mfrs. List No.	Order Code	1+	25+	50+	100+	500+	Price Each
AB type Top Mount	47590-0001	156-8022						
AB type Bottom Mount	47589-0001	156-8023						
B type Mid Mount	47491-0001	156-8025						
B type Bottom Mount	47346-0001	156-8026						
Cable Assemblies								
USB A to Micro USB B, 1M	68784-0001	161-7585						
USB A to Micro USB B, 1.5M	68784-0002	161-7586						
USB A to Micro USB B, 2M	68784-0003	161-7587						

Mini USB 2.0 Receptacle

santec

NEW



- Mounting: Surface mount
- Contact material: Phosphor Bronze
- Contact plating: Gold
- Current rating per contact: 1A
- Voltage rating: 30V RMS
- Durability: 1500 cycles

638311

Description	Mfrs. List No.	Order Code	1+	10+	50+	100+	Price Each
Type B	MUSBR-05-F-O-B-SM-A	189-4077					
Type A	MUSBR-05-F-O-A-SM-A	189-4078					

Sealed / Industrial USB Connectors

Harsh Environment USB

Amphenol

NEW



Amphenol's MUSB series represents a unique and innovative USB connector design. This design provides the ideal solution for data transfer in harsh or demanding environments against physical and environmental conditions. These connectors are underwater submersible rather than just water resistant in both mated and unmated conditions. They are absolutely unshaken by hostile environmental elements.

- Meets military shock and vibration levels
- Shell: Metal die cast
- Finish: Nickel
- Contact Plating: Gold
- Current Rating: 1.5A
- Voltage Rating: 100VDC
- Dielectric Voltage: 500VAC
- Operating Temperature: -40°C to +105°C

621200

Description	No. of Contacts	Order Code	1+	5+	10+	25+	Price Each
USB Receptacles							
Type A Right Angle PCB Mount	4	186-0542					
Type A Vertical PCB Mount	4	186-0545					
Type A Right Angle Stacked PCB Mount	8	186-0548					
Type A Vertical Stacked PCB Mount	8	186-0553					
Type B Right Angle PCB Mount	4	186-0554					
Type B Vertical Stacked PCB Mount	4	186-0556					
USB Receptacles with Cable Header							
Type A Right Angle PCB Mount	4	186-0543					
Type A Right Angle Stacked PCB Mount	8	186-0551					
USB Receptacles with USB Termination							
Type A Right Angle PCB Mount	4	186-0544					
Type A Right Angle Stacked PCB Mount	8	186-0552					
USB Receptacles with Dust Cover							
Type B Right Angle PCB Mount	4	186-0555					
Mini USB Receptacles							
Type B Right Angle PCB Mount	5	186-0546					
Type B Vertical PCB Mount	5	186-0547					
Type AB Right Angle PCB Mount	5	186-0557					
Accessories							
Dust Cover, Type A, Grey		186-0558					
Dust Cover, Type A, Mini USB, Black		186-0559					
Dust Cover, Type B, Grey		186-0560					
Dust Cover, Type B, Mini USB, Grey		186-0561					

Industrial Latching USB 2.0

TE connectivity

NEW



- USB 2.0 Type A
- Contact plating: Gold
- Colour: Black
- Receptacle mounting: Through hole right angle

Sealed / Industrial USB Connectors - continued

Industrial Latching USB 2.0 - continued

640459

Number of Ports	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Cable Mount Plug						
1	2040305-1	190-2730				
PCB Mount Receptacle						
1	1903814-1	190-2731				
2	1903815-1	190-2732				
Cable						
Length (m)						
Cable Assembly - Type A to Type A						
1m	2083112-2	190-2733				
2m	2083112-3	190-2734				
3m	2083112-4	190-2735				
5m	2083112-5	190-2736				
Cable Assembly - Type A to Free End						
1m	2083113-2	190-2737				
2m	2083113-3	190-2739				
3m	2083113-4	190-2741				
5m	2083113-5	190-2742				

Front Panel Mounting Connector Sealed USB



6000 Series Buccaneer - circular connectors that combine the ease of use of a push/pull coupling mechanism with proven environmental sealing. Designed and independently tested to IP66, IP68 & IP69K standards, they are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important considerations.

NEW



- PXP6042 has opposite USB type connector to rear of panel
- PXP6043 is leaded with 5 way crimp connector
- Mates with PXP6040 and PXP6041 cable connectors

663369

Description	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
Sealed USB A to unsealed USB B	PXP6042/A	213-3427			
Sealed USB B to unsealed USB A	PXP6042/B	213-3431			
Sealed USB A to 5 way crimp	PXP6043/A	213-3429			
Sealed USB B to 5 way crimp	PXP6043/B	213-3432			

Sealed USB Cables



- Single ended sealed cable assembly
- Mates with all panel mounting connectors
- 30° twist locking

NEW



663368

Lead Length	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
IP rated A type USB to standard B type USB					
2m	PXP6040/A/2M00	213-3419			
3m	PXP6040/A/3M00	213-3420			
5m	PXP6040/A/5M00	213-3421			
IP rated B type USB to standard A type USB					
2m	PXP6040/B/2M00	213-3422			
3m	PXP6040/B/3M00	213-3423			
5m	PXP6040/B/5M00	213-3424			

USB Connectors

IP67

NEW



- Current rating: 1A
- Speed: 480 Mbps
- Contact material: Copper
- Plating: Gold
- IP rating: IP67
- Contact resistance: ≤30mΩ
- Insulation resistance: ≥1000MΩ
- Durability: 500 cycles min.

621282

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Panel Mount, Jack	2UB3001-W05100	185-0634				
USB Jack to USB Plug Cable	2UB3001-W05101	185-0636				
USB Jack to Micro USB Plug Cable	2UB3001-W05102	185-0637				
Panel Cap	2UB3001-W0000W	185-0633				

USB Mini-B HS Autolink



HSAutoLink is the emerging high-speed data bus for vehicles. Cable assemblies utilizing the USB Standard A receptacle provide shrouded and latching capabilities.

molex
NEW

- No. of contacts: 5
- Max. voltage: 5V RMS
- Max. current per contact: 1A
- Lead length: 0.5m

613636

Polarity	Mfrs. List No.	Order Code	Price Each				
			1+	10+	50+	100+	250+
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					

USB 2.0 Type A Cable Assembly Har-Port

NEW



- Gender: Receptacle to plug
- Easy mounting
- Compact and robust design
- Receptacle mounting: Panel
- Mating cycles: >1500 cycles
- Housing material: Polyamide
- IP rating: IP20

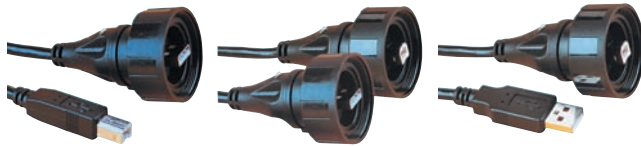
Pushing Performance

651700

Cable Length	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
Cable Assembly - Plug to Receptacle						
500mm	09 45 452 1920	197-2971				
1m	09 45 452 1921	197-2973				
1.5m	09 45 452 1922	197-2974				
2m	09 45 452 1923	197-2975				
3m	09 45 452 1924	197-2976				
5m	09 45 452 1925	197-2977				
Labels						
Label Holder	09 45 502 0002	197-2968				
Label	09 45 502 0003	197-2969				

Bulgin - USB Buccaneer

PX0840 / PX0841



The USB Buccaneer is designed to conform to the latest USB version 2 specification and provide an environmental seal to IP68. This dust and waterproof USB connector is suitable for industrial or hostile environments where a high speed computer interface is required.

- Dust and waterproof to IP68
- Data rates up to 480Mbps
- PCB adaptor leads
- Hot pluggable, standard 4 pole USB interface
- Double and Single ended sealed cable versions
- 2m and 5m lengths
- PVC black cable jacket

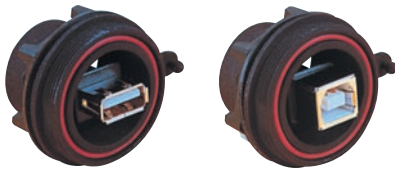
Sealing IP68, EN60529 (when mated)
 Flammability
 Operating Temp. 0°C to 70°C

PX0840/A/2M00	999-7377	2m	IP68 A type USB to standard B type USB
PX0840/A/5M00	999-7385	5m	IP68 A type USB to standard B type USB
PX0840/B/2M00	999-7393	2m	IP68 B type USB to standard A type USB
PX0840/B/5M00	999-7407	5m	IP68 B type USB to standard A type USB
PX0841/AB/2M00	999-7415	2m	IP68 A type USB to IP68 B type USB

335221/406745

Mfrs. List No.	Length	Order Code	Price Each		
			1+	10+	50+
PX0840/A/2M00	2m	999-7377			
PX0840/A/5M00	5m	999-7385			
PX0840/B/2M00	2m	999-7393			
PX0840/B/5M00	5m	999-7407			
PX0841/AB/2M00	2m	999-7415			

Panel Mount Connectors



966-7741 - Computer USB connector

966-7750 - Peripheral USB connector

- Single hole fixing
- Front panel sealed to IP68
- Sealed "A" type to "B" type or "B" type to "A" type adaptor
- Opposite connector at rear of adaptor
- Mounting hole diameter 27.5mm (plus keyway)

335222/406746

Description	Mfrs. List No.	Order Code	Price Each		
			1+	10+	50+
IP68 "A" type USB	PX0842/A	966-7741			
IP68 "B" type USB	PX0842/B	966-7750			

Rear Panel Mounting Connector - PCB Direct Mount



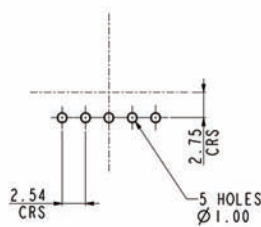
1166684

1166685

- 1166684 - USB "A" type IP68 connector
- 1166685 - USB "B" type IP68 connector
- PCB contacts at rear
- Direct PCB mount
- Mates with FIO: 9997377, 9997385, 9997393, 9997407, 9997415 and 9997423

430398

Description	Mfrs. List No.	Order Code	Price Each		
			1+	25+	50+
IP68 "A" type USB	PX0845/A	116-6684			
IP68 "B" type USB	PX0845/B	116-6685			



Front Panel Mounting Connector

Flying Lead Termination



- 1166681 - USB "A" type IP68 connector
- 1166683 - USB "B" type IP68 connector
- Mates with FIO: 9997377, 9997385, 9997393, 9997407, 9997415 and 9997423
- Leaded with 5 way crimp connector

1166681

1166683

430397

Description	Mfrs. List No.	Order Code	Price Each		
			1+	25+	50+
IP68 "A" type USB	PX0843/A	116-6681			
IP68 "B" type USB	PX0843/B	116-6683			

IP68 USB Buccaneer® Flash Drive Cover



- For use with USB Flash Drives
- Maintains IP68 rating when mated
- Internal accommodation 17.5 x 14.0 x 83mm approx.
- For use with 'A' Type connectors - Farnell p/ns 966-7741, 966-7750, 116-6681, 116-6683, 116-6684 & 116-6685

528468

Mfrs. List No.	Order Code	Price Each			
		1+	10+	25+	50+
PX0852	168-7564				

Adaptor Leads



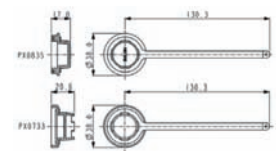
- PCB adaptor lead, USB to 5 way crimp connector
- Lead length 100mm
- 5 way PCB header (0.1"/ 2.54mm pitch)

Mfrs. List No.	Order Code	Description
14193	999-7431	USB "A" type to 5 way crimp
14194	999-7440	USB "B" type to 5 way crimp
14191	966-7768	5 way PCB header - straight
14192	966-7776	5 way PCB header - right angle

335224

Order Code	Price Each		
	1+	10+	50+
999-7431			
999-7440			
966-7768			
966-7776			

Sealing Caps



- Sealing caps to maintain IP68 rating when connectors are not in use
- | Mfrs List No | Order Code | Description |
|--------------|------------|--------------------------------|
| PX0835 | 428-5876 | Sealing Cap for PX0840 and 841 |
| PX0733 | 314-390 | Sealing Cap for PX0842 |

335223/406748

Mfrs. List No.	Order Code	Price Each		
		1+	25+	50+
PX0835	428-5876			
PX0733	314-390			

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Sealed / Industrial USB Connectors - continued

IP68 Sealed - Mini USB Buccaneer



The Mini USB Buccaneer provides a compact solution for USB connections in industrial environments. Utilising industry standard Mini "B" connections, the connector provides an IP68 sealed, secure and robust connection performing to USB V2.0, for use in areas where dust or water could prove detrimental to system operation. Fully shielded, providing good levels of noise immunity and EMI protection. Cables are overmoulded offering secure, tamper-proof connections.

- Dust and waterproof to IP68
- USB V2.0 data rates up to 400Mbps
- Shielded system, high noise immunity
- Overmoulded cables, tamperproof construction

Sealing	IP68	Performance	USB V2.0
Mating Cycles	5000	Operating Temp.	-20°C to +70°C
Flammability	UL94V-0		

442433

Sealed Mini USB Cables

PX0441 / PX0442



- IP68 sealed Mini "B" type to standard "A" USB
- Fully overmoulded construction
- Available in 2, 3 & 4.5m lengths
- Mates with PX0443, PX0446 and PX0447

- IP68 sealed Mini "B" type to Mini "A" USB
- Fully overmoulded construction
- Available in 2, 3 & 4.5m lengths
- Mates with PX0443, PX0446 and PX0447

PX0441/2M00	122-9677	2m	IP68 Mini USB B to USB A
PX0441/3M00	122-9678	3m	IP68 Mini USB B to USB A
PX0441/4M50	122-9681	4.5m	IP68 Mini USB B to USB A
PX0442/2M00	122-9682	2m	IP68 Mini USB B to Mini USB A
PX0442/4M50	122-9684	4.5m	IP68 Mini USB B to Mini USB A

442434

Mfrs. List No.	Length	Order Code	Price Each		
			1+	25+	50+
PX0441/2M00	2m	122-9677			
PX0441/3M00	3m	122-9678			
PX0441/4M50	4.5m	122-9681			
PX0442/2M00	2m	122-9682			

Rear Panel Mount Connectors



1229687

1229686

- Mini "B" type
- With pins for direct PC mounting
- Mates with PX0441 and PX0442
- Mini "B" type
- Leaded with 5 way header
- Mates with PX0441 and PX0442

442494

Mfrs. List No.	Order Code	Price Each		
		1+	25+	50+
PX0446	122-9686			
PX0447	122-9687			

Front Panel Mount Connectors



- Mini "B" type
- Leaded with 5 way crimp, for use with PC header
- Mates with PX0441 and PX0442

442435

Mfrs. List No.	Order Code	Price Each		
		1+	25+	50+
PX0443	122-9685			

IP68 USB Buccaneer® Rear Panel Mounting Connectors



PX0848

PX0849

- IP68 rated, dust and waterproof sealing when mated
- USB V2.0, low and high speed bus connection, 1.5Mbps to 480Mbps
- Plug and play capability - standard 4 pole interface
- Visual mating indication
- High noise immunity and EMI protection
- Screw coupling - secure, proven locking system

Current	1A	Contact Plating	
Voltage	30Vac	Operating Temperature	0°C to 70°C
Contact Resistance	30mohm	Mating Cycles	1000
Contact Material	Copper Alloy	Flammability Rating	UL94V-0

Product Descriptions:-

PX0848/A - A type USB, rear panel mounted. Sealed A type at front of panel, standard B type at rear.

PX0848/B - B type USB, rear panel mounted. Sealed B type at front of panel, standard A type at rear.

PX0849/A - A type USB, rear panel mounted. Sealed A type at front of panel, leaded with 5 way header at rear.

PX0849/B - B type USB, rear panel mounted. Sealed B type at front of panel, leaded with 5 way header at rear.

NB- PX0848 and PX0849 mate with Bulgin's PX0840 and PX0841 USB leads (Farnell p/ns 999-7377, 999-7385, 999-7393, 999-7407, 999-7415)

524415

Mfrs. List No.	USB Type	Order Code	Price Each		
			1+	25+	50+
PX0848/A	Type A	162-9392			
PX0848/B	Type B	162-9393			
PX0849/A	Type A	162-9394			
PX0849/B	Type B	162-9395			

IP68 Mini USB Buccaneer®



Mini AB Type



PX0458

PX0456
Front Panel Mounting

PX0457
Rear Panel Mounting

Rear Panel Mounting

The Mini USB Buccaneer provides a compact solution for USB connections in industrial environments.

Utilising the industry standard Mini AB connections for the panel connection, the latest in the USB Buccaneer range offers a secure, robust connection performing to USB V2.0, where dust or water could prove detrimental to system operation. The system is fully shielded providing good levels of noise immunity and EMI protection. Cables are fully overmoulded construction offering secure, tamper-proof connections.

Features:-

- Mini AB type
- IP68 rated, dust & waterproof to EN60529
- USB V2.0, data rates up to 480Mbps
- PX0456 leaded with 6 way crimp, for use with PC header
- PX0457 leaded with 6 way header
- PX0458 with pins for direct PC mounting

NB- Mate with Bulgin PX0441 & PX0442 USB leads (Farnell p/ns 122-9677, 122-9678, 122-9681, 122-9682, 122-9683, 122-9684)

Current	1A	Flammability Rating	UL94V-0
Voltage	30Vac / 42Vdc	Contact Plating	
Contact Resistance	50mohm	Mating Cycles	5000
Operating Temperature	0°C to 70°C		

524412

Mfrs. List No.	Mounting Type	Order Code	Price Each		
			1+	25+	50+
PX0456	Panel Mount	162-9389			
PX0457	Rear Panel Mount	162-9390			
PX0458	Rear Panel Mount	162-9391			

Accessories



- Sealing Caps
- 5 way PCB eaders

PX0480	For use with PX0443	14191	5 way straight header
PX0484	For use with PX0446 & PX0447	14192	5 way right angle header

442507

Mfrs. List No.	Order Code	1+	25+	50+
PX0480	384-1285			
PX0484	840-6642			
14191	966-7768			
14192	966-7776			

USB Field TV Sealed USB MIL-C-38999 Series III



- Sealed against fluid and dusts (IP67)
- Shock, Vibration and Traction resistant
- Suitable for 500-1500 mating cycles
- Improved EMI protection
- Choice of back terminations on receptacles - USB-A receptacle or Solder (4 tinned holes)
- Olive Drab Cadmium finish

Transforms regular USB cordset for use in harsh environments. Easy to assemble, the plug adapts a standard USB cordset without the need for tools.

Salt Spray	≥500h
Flammability / Smoke	UL94 V0 and NF F 16 101 & 16 102
Vibrations	10Hz - 500Hz, 10g, 3 axes; no discontinuity ≤ 1μs
Shocks	IK06: 250g dropped from 40cm onto mated connectors
Humidity	21 days, 43°C, 98% humidity
Temperature Range	-55°C to +85°C

450110

Description	Mfrs. List No.	Order Code	1+	10+	25+	50+
Receptacle, Square Flange, USB-A	USBF TV 21 G	122-0811				
Receptacle, Square Flange, Solder	USBF TV 22 G	122-0812				
Receptacle, Jam Nut, USB-A	USBF TV 71 G	122-0814				
Plug Assembly	USBF TV 6 G	122-0817				
Cap for Square Flange Receptacle	USBF TVC 2 G	122-0813				
Panel Gasket	JE15	122-0819				
Removal Tool	USBF ODE	122-0820				

USB Field Sealed USB Self Closing Cap



- Automatically protects USB Field square flange receptacles
- Closes when either a USB Field plug or regular USB cordset is removed from receptacle

450096

Description	Mfrs. List No.	Order Code	1+	10+	25+	50+
Nickel and metallised inserts (EMI)	USBF 21 N SCC	122-0796				
Black and blank insert	USBF 21 B SCC	122-0797				

Industrial USB - IP67 Plugs and Receptacles



- Sealed housing for harsh industrial environments
- Single seal surface ensures IEC 60529 IP67 sealing
- 1/3 turn bayonet latching for quick connection
- Same form factor as RJ45 Ethernet
- Over-moulded cord-sets and pigtailed ensure IP67 sealing on cable side

419726

Mfrs. List No.	Length	Order Code	1+	25+	50+
USB Plug Type A to Pigtail					
84727-1001	2m	965-2795			
84727-1003	3m	965-2809			
Panel Mount USB Receptacle Type A to Pigtail					
84729-0001	0.152m	965-2850			

Industrial USB - IP67 Panel Mount Lead Type A to Type A



419744

Mfrs. List No.	Length	Order Code	1+	25+	50+
84729-0003	0.152m	965-2868			
84729-0004	0.8m	965-2876			
84729-0005	1.3m	965-2884			

IEEE 1394 Connectors

IEEE 1394

Connectors and Cable Assemblies



IEEE1394, also named "Firewire" by Apple, and "i.Link" by Sony, is a new standard I/O interface designed to service the demands of the emerging multimedia bus requirements. 1394 is unique in its ability to carry video and audio with assured quality, based on its high bandwidth capabilities.

This simple to use, peer-to-peer connection system can carry a dense multimedia data stream between computers, video cameras, high-fidelity audio products, and imaging devices at a maximum speed of 400Mbps. The hot plugging capabilities of 1394 make it ideal as a consumer interface. A new node can be plugged in without powering down. When a new node is detected, all existing nodes on the bus sense it and know a change in bus topology has occurred.

Sockets

- Provides the interface for speeds up to 400 Mbps
- Full metal shielding for ESD protection
- High temperature plastic housing for SMT processing

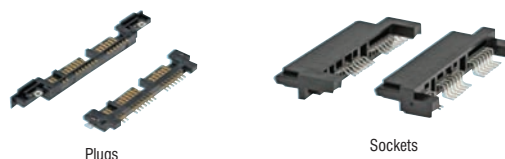
335211/407901

Description	Mfrs. List No.	Order Code	1+	10+	25+
IEEE 1394-1995, 2.0mm pitch					
Connectors, 6 Pin					
Right Angle, Upright	534600629	978-6392			
Right Angle, Flat	53984-0671	978-6414			
IEEE P1394a, 0.80mm pitch					
Connectors, 4 Pin					
Right Angle, Flat	54030-0471	978-6422			

Serial ATA Storage Interface

Micro SATA Interconnect Solution 1.27mm Pitch

molex



Plugs

Sockets

- Interconnect solution for 1.8" form factor drives and backplane applications
- Staggered contact lengths (First Mate - Last Break)
- Guide pocket for plug and guide post for socket allows blind mating
- Power segment key prevents insertion of non-micro SATA power cables
- Plastic locating peg on plugs
- Metal locating pin on sockets
- Friction locking and solder tabs

Specifications:-

Current Rating	1.5A	Voltage Rating	30V
Withstanding Voltage	500VAC	Contact Material	Copper Alloy
Contact Plating	Gold over Nickel	Contact Resistance	30mohm
Insulation Resistance		No. of Ways	16
Flammability Rating	UL94V-0	Housing Material	LCP (Plugs) Nylon 9T (Sockets)
Operating Temp.	-25°C to 85°C		

544570

List No.	Drive Type	Mating Z-Height	Order Code	1+	10+	25+	50+	100+
R/A micro SATA Plugs, SMT								
78103-0001	HDD	3.15mm	171-2401					
78285-0001	SSD	1.29mm	171-2402					
R/A micro SATA Sockets, SMT								
78109-0001	HDD / SSD	1.15mm	171-2403					
78320-0001	HDD / SSD	3.80mm	171-2404					

Serial ATA Storage Interface Desk top and Server Storage

molex



107-8527

System Plug reverse right angle

107-8528

Signal Plug, straight, Vertical

107-8530
Device Plug

Serial ATA Storage Interface - continued

Serial ATA Storage Interface - continued

Desk top and Server Storage - continued



107-8533
Receptacle, SMT.



101-2233
Signal Cable



101-2235
Power Cable assembly

- Ideal Storage interface to meet increased bandwidth and performance requirements
- Can support 1.5 Gbps.

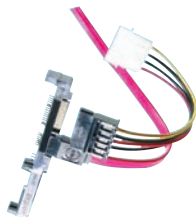
Current Rating	1.5A max	Contact Resistance	30mΩ max
Dielectric withstand Voltage	500V AC 1 min. at sea level	Operating Temperature (Desktop)	-25°C to 85°C
Insulation Resistance	MΩ min	Operating Temperature (Server)	-40°C to 105°C

272340/406750

	Mftrs. List No.	Order Code	Price Each		
			1+	10+	100+
Desktop Storage					
System plug, reverse r/a	67490-3220	107-8527			
System plug, standard r/a	67490-1220	107-8524			
Signal plug, vertical	67491-0020	107-8528			
Signal plug, vertical	67491-1030	107-8529			
Receptacle, right angle, SMT	67492-9220	107-8531			
Server Storage					
Device plug	877030001	107-8530			
Receptacle, SMT	87713-1001	107-8533			
Cable Assemblies					
Signal cable - Female to Female					
Straight - straight, 0.5M	88750-5318	101-2233			
Straight - r/angle, 0.5M	88762-5400	107-8519			
Straight - r/angle, 1M	88762-5410	107-8520			
Power cable					
Male - female, 0.15M	88751-1310	101-2235			
4 way female - pigtail, 1.5M	88751-1410	107-8522			
5 way female - pigtail, 1.5M	88757-7810	107-8523			

Serial ATA Storage Interface

Board-to-Board and Cable-to-Board Solution



Moving beyond traditional desktop and network storage applications, Serial ATA is quickly becoming an integral part of consumer electronic products with integrated hard disk drives.

Typical applications include HDD-DVD recorders, home-servers, multimedia hubs, LCD TVs, digital juke boxes, HDD enabled game consoles, set-top boxes with personal video recorders, audio players and audiovisual devices for the automotive industry.



494685

Mftrs. List No. Description	Order Code	Price Each		
		1+	10+	100+
Signal Plugs				
47080-4005 Plug, SMT RA latch	151-9800			
47155-4001 Plug, Thru Hole Latch	151-9801			
67800-5025 Plug, Vert SMT Latch	151-9802			
67800-8005 Plug, Vert Thru Hole Latch Footprint A	151-9804			
Combo Receptacle				
47018-4001 Receptacle, SMT RA 22 Way 5.15mm	151-9813			
87678-1001 Receptacle, Vert Backplane 22 way	151-9811			
47018-2001 Receptacle, SMT RA 22 Way 4.30mm	151-9812			
Power Connectors				
67926-0001 Receptacle, IDT Metal Latch	151-9806			
67926-0011 Receptacle, IDT Friction locking	151-9807			
67926-0040 Cover for IDT Receptacle, Feed To	151-9808			
67926-0041 Cover for IDT Receptacle, Feed-Thru	151-9809			
Cable Assemblies				
68561-0015 Straight Latching to Straight Latching	151-9814			
68561-0016 Straight Latching to RA Latching	151-9816			

Small Form Pluggable

SFP+ Cage / Connector Assemblies



- SFP+ interconnect system supports data rates of 10 Gb/s
- Connector designed to support 10 Gb/s+ signal speeds, backward compatible with SFP

- Both EMI spring and gasket options for cages provide excellent shielding
- All cage configurations are offered with lightpipes for LED applications
- Heat sink option for single port cages
- Cages are available for PCI card applications (one degree mounting angle)
- Cages accommodate belly-to-belly mounting
- Stacked cages include integrated high speed connector using patented wafer construction
- Cage Material = Nickel Silver

546855

Configuration	Mftrs. List No.	Order Code	Price Each			
			1+	5+	10+	25+
Single Port / Ganged Cages, EMI Springs, with Light Pipes						
1 x 1	2007254-1	175-5770				
1 x 2	2007262-1	175-5771				
1 x 4	2007178-1	175-5772				
Single Port / Ganged Cages, EMI Springs, without Light Pipes						
1 x 1	2007198-1	175-5773				
1 x 2	2007263-1	175-5774				
1 x 4	2007132-1	175-5775				
1 x 6	2007251-1	175-5776				
Single Port Cages, EMI Springs, with PCI Heat Shrink						
1 x 1	2007464-1	175-5777				
Single Port Cages, EMI Springs, for PCI Applications						
1 x 1	2007194-1	175-5779				
Ganged Cages, Elastrometric Gasket, with Light Pipes						
1 x 2	2007180-1	175-5781				
1 x 4	2007093-1	175-5782				
Ganged Cages, Elastrometric Gasket, without Light Pipes						
1 x 2	2007181-1	175-5783				
1 x 4	2007135-1	175-5784				
Stacked Cages, EMI Springs, with Light Pipes						
2 x 1	2007492-5	175-5786				
2 x 2	2007637-5	175-5787				
2 x 4	2007394-5	175-5788				
Receptacle, 0.8mm Pitch, R/A, Higher Speed SFP+ compliant						
20 Ways	1888247-2	175-5785				
EMI Plug Assembly						
	1888901-1	175-5789				

SFP+ Passive Leads



- Colour: Black
- No of signal contacts: 4
- Developed for 10Gbps data rates
- Supports multiple protocols, including 10G Ethernet, Infiniband SDR, DDR & QDR



NEW

630835

Cable Length	Mftrs. List No.	Order Code	Price Each			
			1+	5+	10+	25+
Cable Size: 30 AWG						
0.5	2127931-1	187-7606				
1	2127931-2	187-7607				
2	2127931-3	187-7608				
3	2127931-4	187-7609				
Cable Size: 28 AWG						
0.5	2127932-1	187-7610				
1	2127932-2	187-7611				
2	2127932-3	187-7612				
3	2127932-4	187-7613				
4	2127932-5	187-7614				
5	2127932-6	187-7615				
Cable Size: 26 AWG						
0.5	2127933-1	187-7617				
1	2127933-2	187-7618				
2	2127933-3	187-7619				
3	2127933-4	187-7620				

Cable Length	Mfrs.		Price Each			
	List No.	Order Code	1+	5+	10+	25+
Cable Size: 26 AWG						
4	2127933-5	187-7621				
5	2127933-6	187-7622				
6	2127933-7	187-7623				
Cable Size: 24 AWG						
0.5	2127934-1	187-7624				
1	2127934-2	187-7625				
2	2127934-3	187-7626				
3	2127934-4	187-7627				
4	2127934-5	187-7629				
5	2127934-6	187-7631				
6	2127934-7	187-7632				
7	2127934-8	187-7633				

SFP Connectors, Cages, Cable Assemblies and Adapters



Mfrs. List No.	Description	Order Code
74441-0007	Receptacle, SMT R/A 30 way	152-0101
74736-0240	Heatsink, PCI 4.2mm	152-0105
74736-0220	Cage assembly W/O heat sink	152-0110
74736-0230	Heatsink clip	152-0111

The SFP product range meets the demands of networking and storage industries, which require denser and faster packaging for high-speed serial interfaces. The Multi-Port connectors offer high port density with complete integration of stacked 20-circuit SFP connector ports within a cage. Integrated light pipes are available to provide port-status indication to the user.

494794

Order Code	Price Each			Order Code	Price Each		
	1+	10+	50+		1+	10+	50+
152-0101				152-0110			
152-0105				152-0111			

CXP Pluggable

CXP Pluggable I/O Connectors Press-Fit

NEW



- 12 channels of 10 Gbps data rates for 120Gbps of total bandwidth in one-piece press-fit assembly
- Enhanced Footprint (EF)
- Pre-assembled (one-piece) connector and cage assembly
- EMI gasketing at bezel opening and EMI springs
- CXP cages accommodate belly to belly mounting option

Applications: Controller Cards and Servers, Network Switches, Routers, Storage Devices, Direct Attached Storage (DAS), Storage Attached Networks (SAN) and Network Attached Storage (NAS).

Body	Zinc	Mating Force	210N min.
Connector Housing	LCP	Unmating Force	42N min.
Connector Contacts	Copper	Durability	250 cycles

Receptacle Assemblies

Mfrs. List No.	Height	Profile	Heat Sink	Light Pipes	Order Code
2149152-1	11.88mm	Standard	x	x	207-6203
2149159-3	16.37mm	Standard	✓	✓	207-6204
2149699-1	11.55mm	Belly to Belly Extended	x	x	207-6207
2149731-1	11.55mm	Belly to Belly Extended	x	x	207-6208

Cable Assemblies

Mfrs. List No.	Description	Cable Length	Order Code
2148041-5	24Fiber C/A, 50/125µm OM3, MPO (f) - LC	5m	207-6205
2148043-5	24Fiber C/A, 50/125µm OM3, 24 pos MPO (f) to 3 (8fiber) MPO (f)	5m	207-6206
2148238-5	24Fiber C/A, 50/125µm OM3, MPO (f) -MPO (f)	5m	207-6209

657764

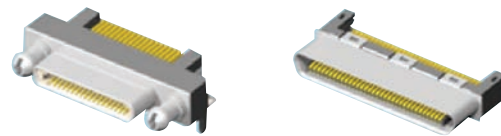
Mfrs. List No.	Order Code	Price Each		
		1+	10+	25+
2149152-1	207-6203			
2149159-3	207-6204			
2149699-1	207-6207			
2149731-1	207-6208			
Accessories		1+	3+	10+
2148041-5	207-6205			
2148043-5	207-6206			
2148238-5	207-6209			

VHDCI

VHDCI Connectors



VHDCR / VHDCP Series



Receptacle, Right Angle

Plug, Edge Mount

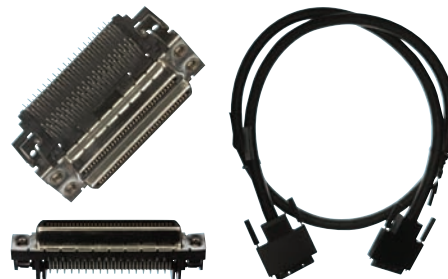
- Right Angle Receptacles and Edge Mount Plugs
- 36, 50 and 68 Positions

Specifications:	Contact Material	Contact Plating	Gold over Nickel
Contact Material	Phosphor Bronze	Pitch	0.8mm
Insulator Material	Nickel Plated Zinc Alloy (Receptacle) / Nickel Plated Phosphor Bronze (Plug)		

547694

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Receptacle, Right Angle							
68	VHDCR-68-01-M-RA	175-3935					
Plug, Edge Mount							
68	VHDCP-68-01-M-EM	175-3938					

Ultra+™ VHDCI



- Stacked / single assembly VHDCI receptacles and male-male VHDCI cable assembly
- Stacked receptacle supports twice the density of the standard right angle receptacle
- The receptacles feature enhanced shields & ground tabs with multiple contact points for improved EMI/RFI performance
- **Screw locks ordered separately**

Specifications:	Contact Plating	Gold	Contact Material	Phosphor Bronze
Housing Material	High Temp. Thermoplastic	Flammability Rating	UL94V-0	
Current Rating	0.5A	Voltage Rating	30V	
Mating Cycles	500	Impedance	100 ohm	
Operating Temp.	-55°C to 85°C			

601175

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+
Double Stacked VHDCI Receptacle, R/A					
136	74337-0015	171-8016			
Single VHDCI Receptacle, R/A					
68	71430-0013	171-8017			
Screwlock, Thread Size = M2 x 0.4mm, Pack Size = 2 pcs					
	71433-0002	171-8019			
Cable Assembly, VHDCI Plug - VHDCI Plug, 1m					
68	79918-0080	171-8018	1+	5+	10+

VHDCI Cable Assemblies



- Cost effective shielded VHDCI cable assemblies
- Conductive copper foil 360° shielding
- 28AWG x 2PRS + 30AWG x 32PRS FAEB. cable
- Cable diameter - 9.8mm
- Minimum isolation resistance - 1MΩ

540604

Cable Length	Order Code	1+	5+	10+
1m	171-8937			
2m	171-8938			

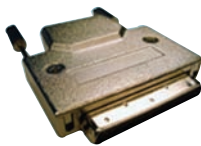
IMPROVED BACK ORDER DELIVERY

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

VHDCI - continued

VHDCI

Plugs and Sockets



Current Rating	0.3 A
Insulation Resistance	500 Mohm-m
Voltage Rating	30 AC
Operating Temperature	-25°C to 85°C



491672

Plugs	Order Code	Price Each		
		1+	10+	50+
68 Way	142-8253			
68 Way without hood	142-8254			
Socket				
Stacked 2 x 68 Way with screws	142-8255			
Stacked 2 x 68 Way without screws	142-8256			
68 Way	142-8257			

Infiniband

4X Cable Assemblies



Tyco Electronics' 4X series of cable assemblies are designed to meet the most demanding INFINIBAND™ Specification, Fibre Channel and Gigabit Ethernet (CX4) applications. This family of products exhibits high signal integrity capabilities.



Key Features :

- High signal integrity capabilities
- Fully shielded for EMI/RFI protection
- Built with robust strain relief and wire retention
- Available in lanyard latching style
- Reduced crosstalk (less than 3%)
- Available with standard 28, 26 and 24 AWG wire

415075

Type	Length	Mftrs. List No.	Order Code	Price Each
Cable Assemblies (male/male)				
CX4, 4X to 4X	1m	6751546-2	128-3193	1+
CX4, 4X to 4X	5m	6751546-6	128-3195	

Camera Link

MDR Cable Assembly

High Speed Digital Data Transmission System - 26 way



- Supports new industrial Camera-Link™ in Automated Imaging Association for camera to frame grabber communications
- Fully shielded, matched impedance system using twin-ax cables for higher speed applications
- Rugged thumbscrew retention
- Available in 3, 5 and 10 metre lengths

- Signal speed upto 1.5Gb over a 10-metre length

3M have designed and developed the Camera-Link™ interconnect standard based on a 26-pin mini delta ribbon (MDR) connector from 3M that uses LVDS technology (low voltage differential signalling). The assemblies provide the link between the digital cameras and the frame-grabbers becoming the Camera-Link™ standard interconnect solution.

The assemblies are made up of 3M MDR connectors with backshells providing full shielding and are based on the LVDS technology. The twin-ax cable contains 11 high speed shielded pairs and 4 drain wires allowing multiple applications.

Voltage rating	30V	Withstand voltage	350 Vrms for 1 minute
Current	1A	Temperature rating	-20°C To 75°C
Conductor size	28AWG		

414226

Length	Mftrs. List No.	Order Code	Price Each
1m	14B26-SZLB-100-OLC	142-8343	1+
2m	14B26-SZLB-200-OLC	142-8344	
3m	14B26-SZLB-300-OLC	991-1928	
5m	14B26-SZLB-500-OLC	991-1936	
10m	14B26-SZLB-A00-OLC	991-1944	

SDR (Shrunk D Ribbon) Receptacle

0.8mm High Speed Digital Data Transmission - 26 way



"3M™ SDR Connectors with a .8mm contact pitch is a miniature version of the MDR input/output (I/O) ribbon contact system. SDR boardmount connectors in 14 and 26 positions are constructed of RoHS compliant, high temp plastic bodies, 30µ" gold contacts, polarised, stamped metal EMI/ESD interface with installed jack sockets and supporting boardmounting hardware.

SDR applications are for high density I/O and the 26 position is for camera to Camera Link® frame grabber applications meeting the new AIA Industrial Mini Camera Link® standard".

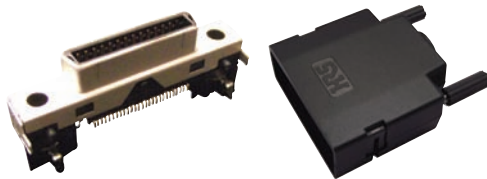
- Wiper on wiper contact for reliable repetitive mating
- Full metal face for better EMI shielding
- 14, 26 and 50 ways
- On-board jack sockets
- 30µ" Gold Plate
- RoHS compliant

454437

No. of Ways	Mftrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
90°, Surface Mount						
26	12226-8250-00FR	SMD 132-1032				
90°, Through Hole						
26	12226-1150-00FR	132-1037				
Vertical, Through Hole						
26	12226-5150-00FR	132-1034				
Price Each						
Order Multiple=2						
Panel Thickness			2+	10+	50+	100+
Screw Lock						
1.2mm	12600-S-12	132-1040				

Miniature I/O Connectors

High Speed Transmission Small Interface Connector 1mm Pitch



NEW

DH Series is an impedance controlled interface connector for high speed transmission.

1mm contact mating pitch together with a 0.5mm mounting pitch yields a more compact, lower profile, higher density alternate to conventional half pitch interface connectors

- Plug and socket pitch: 1mm
- Current rating: 0.5A
- Voltage rating: 125V AC
- Durability: 1000 cycles

626515

No. of Ways	Mftrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Socket - Screw Lock - Right Angle						
27	DH60-27P	187-4411				
37	DH60-37P	187-4412				
Socket - Screw Lock - Straight						
27	DH80-27P	190-7028				
Socket - Latch - Right Angle						
27	DH60A-27P	187-4422				
37	DH60A-37P	187-4423				
Socket - Latch - Straight						
27	DH80A-27P	190-7029				
Plug						
27	DH40-27S	187-4430				
37	DH40-37S	187-4429				
Hood - Screw						
27	DH-27-CV1B	187-4419				
37	DH-37-CV1B	187-4417				
Hood - Thumb Screw						
27	DH-27-CV2B	187-4420				
37	DH-37-CV2B	187-4418				
Hood - Metal Button						
27	DH-27-CT1B	187-4427				
37	DH-37-CT1B	187-4425				
Hood - Plastic Button						
27	DH-27-CT2B	187-4428				
37	DH-37-CT2B	187-4426				

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
Screw Lock - Panel Mount - Width Range						
1.4mm to 1.6mm	DH-LNA	187-4413				
0.9mm to 1.2mm	DH-LNA-W4	187-4414				
0.5mm to 0.8mm	DH-LNA-W8	187-4415				
Screw Lock						
Free Mount	DH-LNA-W16	187-4416				
Cable Clamp - Max. Diameter						
6.9mm	DH-27-CMB(6.9)	187-4431				
7.3mm	DH-27-CMB(7.3)	187-4432				
8.8mm	DH-37-CMB(8.8)	187-4434				
Screw						
For DH80	DH80A-SCREW	190-7030				

Long Life I/O Connectors



NEW

These miniature, shielded interface connectors were designed for use with portable terminal equipment. They are suited to a wide range of applications including hand-held terminals and PDA equipment because of excellent insertion/removal durability.

- Durability: 20000 cycles
- Snap lock system to relieve stress on removal
- Current rating: 1A
- Voltage rating: 125V AC
- Contact material: Copper alloy
- Contact plating: Gold

626066

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
Socket - Surface Mount - Right Angle						
10	3560-10S(50)	187-4349				
16	3560-16S(50)	187-4350				
Plug - Cable Mount						
10	3540-10P-CV(50)	187-4351				
16	3540-16P-CV(50)	187-4352				
Plug - Surface Mount						
16	3560-16P-PG(50)	187-4353				

Mini I/O Connector Wire to Board

NEW



- Number of contacts: 8
- Voltage rating: 30 V
- Current rating: 0.5 A
- Operating temp: -40°C to +70°C

The Industrial Mini I/O connector system is a small, compact, latching, wire-to board I/O interface that is suitable for the stringent demands of an industrial device. It is one quarter the size of a conventional RJ45 plug and is designed with two points of contact for increased reliability in high vibration environments.

616171

Connector Type	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Socket - Through Hole							
Type 1	2040537-1	181-6583					
Type 2	1-2040537-1	181-6578					
Socket - Surface Mount							
Type 1	1981080-1	181-6579					
Type 2	1981386-1	181-6580					
Plug Kit							
Type 1	2013595-1	181-6581					
Type 2	2040008-1	190-2756					

Micro Miniature Interface connectors MQ172 Series



- Ultra miniature low profile SMT design
- Automatic mounting
- Reliable contact
- High current capacity
- Positive locking
- Keys for preventing incorrect insertion

Current Rating	2 A	Durability	5,000 cycles
Voltage Rating	40V AC	Contacts	Phosphor Bronze
Operating Temperature	-30°C to 75°C	Colour	Black

496475

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
Plug						
3	MQ172-3PA(55)	151-8736				
4	MQ172X-4PA(55)	151-8738				
Receptacle						
3	MQ172-3SA-CV(50)	151-8737				
4	MQ172X-4SA-CV(50)	151-8739				

Interface Connectors

ST Series



- Strong locking mechanism
- Prevention against reversed or angle insertion
- Small size and low profile
- EMI protection
- Wide variety of contact positions and mounting styles

Current Rating	0.5 A	Durability	10,000 cycles
Voltage Rating	100V AC	Contacts	Copper Alloy
Operating Temperature	-30°C to 80°C	Colour	Black

491386

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+
Plug					
10 Free	ST40-10S-CV(80)	142-5685			
18 Free	ST40X-18S-CV(80)	142-5686			
10 Cradle Verticle	ST80X-10S	142-5697			
18 Cradle Verticle	ST80X-18S(50)	142-5698			
10 Free Shielded	ST40X-10S-CV(80)	142-5704			
R/A Receptacle					
10	ST60-10P	142-5693			
18	ST60-18P(50)	142-5694			
Accessories					
Cable Bushing 4.0	ST40X-BS(4.0)	142-5690			
Cable Bushing 5.8	ST40X-BS(5.8)	142-5689			
Clamp Bracket 4 - 5	ST40X-CM(4.0-5.0)	142-5691			
Clamp Bracket 5.8	ST40X-CM(5.8)	142-5692			

Battery Connectors

Battery Connector

MOBO™ - 2.5mm pitch



5 Way

- Specifically designed for mobile equipment
- Available in 3, 4 and 5 way configurations all on a 2.5mm pitch
- Insulator height provides a 3mm spacing
- Various contact nose heights from 1.2mm to 2.3mm provides flexibility in design
- Suitable for 5000 mechanical cycles
- Contacts are gold plated, stamped and rated to 3A
- Retaining brackets provide even greater strength when connected to the PCB

346938/406760

Connector	Mfrs. List No.	Order Code	5+	50+	100+	250+
3 Way						
Nose Height						
1.2mm	9155003001016	972-8350				
2.3mm	9155003003016	972-8384				
4 Way						
1.2mm	9155004001016	972-8392				
1.8mm	9155004002016	972-8406				
2.3mm	9155004003016	972-8414				
5 Way						
1.2mm	9155005001016	972-8422				
2.3mm	9155005003016	972-8449				

Reduced Size Battery Connector

MOBO™ - 2.5mm pitch



- Available in 2, 3, 4 and 5 way configurations all on a 2.5mm pitch
- 2.4mm Insulator height
- 1.2/1.5mm nose height
- Only 2.5mm total height when contacts fully deflected
- Suitable for 5000 mechanical cycles
- Contacts are gold plated, stamped and rated to 3A

- End-to-End stackable

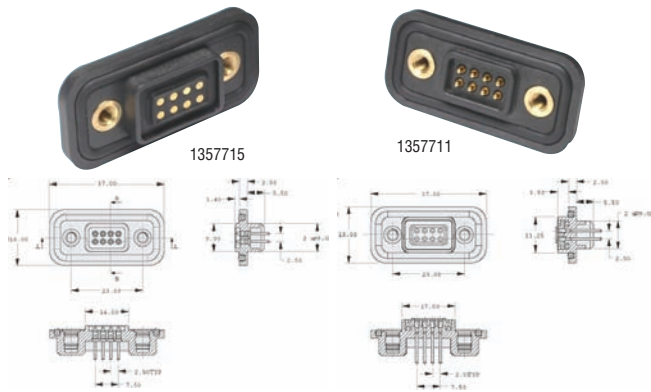
464664

No. of Ways	Mfrs. List No.	Order Code	5+	50+	100+	200+
2	009155002201006	134-5482				
3	009155003201006	134-5483				
4	009155004201006	134-5484				

Hot Shoe Connectors



Hot Shoe Connector



- 2.5mm pitch and row spacing
- Spring loaded contacts maintain positive force
- Tolerant to mating misalignment
- Ideal for use where separate battery modules are used and Data transfer docking stations

Mfrs. List No: Female PC Tail M90-601XX45 Male PC Tail M90-701XX45

No. of Ways	Order Code	1+	10+	50+
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Female PC Tail - Spring Probe Assembly				
8	135-7711			
16	135-7714			
Mail PC Tail - Fixed contact Assembly				
8	135-7715			
16	135-7717			

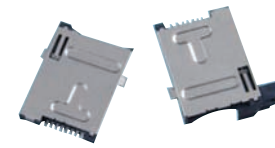
- All plastic design prevents damage to the SIM card
- Two contact sizes:
Standard - 1.6 x 1.6mm
Narrow - 1.05 x 1.05mm

346943/406763

description	Mfrs. List No.	Order Code	5+	50+	100+	250+
Standard	9162006206175	972-8473				
Narrow	9162006216175	972-8481				

SIM Card Connector

1.27mm Pitch



- The spring-ejection mechanism obtains stronger clicking feeling on insertion and ejection
- High durability for 5,000 cycle mating
- A wide range of variations are available such as 6 positions or 8 positions, with a lock or without a lock of the card retention mechanism that prevents SIM card coming off. The lock guarantees the durability against an excessive vibration or dropping impact, and 6 positions type services as a card detection switch that detects the existence of the card
- Metal shell is adopted for EMI protection

496266

Description	Mfrs. List No.	Order Code	1+	10+	50+	100+
6 Pin Push / Push with boss	04 5036 006 200 862+	150-3772				
6 Pin Push/ Push without boss	04 5036 006 201 862+	150-3773				
6 Pin Push / Push w. Slide Lock	05 5036 006 202 862+	150-3774				
8 Pin Push / Push	04 5036 008 210 862+	150-3775				

SIM Card Connector with Eject

2.54mm Pitch



- For use with ISO and Micro sim cards
- Standard 6-pin configuration on a 2.54mm pitch
- Push-push button enables easy extraction
- Polarization on card holder prevents mismatching of card
- Eject mechanism with card holder (91236-****)
- 5000 mating cycles (minimum)
- Contacts are gold plated and rated to 0.5A

414026

	Mfrs. List No.	Order Code	1+	50+
Yellow P/B - With PCB locator peg	91228-3001	151-8961		
Black P/B - Without locator	91228-3002	151-8962		
SIM Card Holder				
With Slanted face	91236-0002	965-2345		
With Straight face	912360001	965-2329		

SIM Card 5 Direction SIM



- Suitable for reading SIM and UIM cards
 - Tape mounted for pick and place manufacturing
- Housing: Thermoplastic, UL94V-0, Black
 Contacts: Gold
 Durability: Up to 5000 mating cycles

451269

Height	Mfrs. List No.	Order Code	1+	10+	50+
2.1mm	2-1705300-1	128-4399			

Security Access Modules (SAM)



- SIM/SAM
- Metal Locking Disk
- Includes Switch



Housing: High Temperature Thermoplastic, Black
 Contact Plating: Gold
 Durability: Up to 10000 mating cycles

451272

No. of Contacts	Mfrs. List No.	Order Code	1+	10+	50+	100+
6	5145299-1	128-4401				
8	5145299-2	128-4402				

SIM Card Connectors



SIM Card Connector

2.54mm Pitch



- Pitch: 2.54mm
- Block type connector
- No. of contacts: 6
- Contact: Phosphor Bronze
- Round contact design

613046

Height (mm)	Mfrs. List No.	Order Code	5+	25+	50+	100+	250+
1.5	47019-1502	NEW 181-7233					
1.8	47019-1802	NEW 181-7234					
2.0	47019-2002	NEW 181-7235					
2.4	47019-2402	169-0497					

SIM Card Connector

6 Way Mini SIM



- Colour: Black
- Insulator: LCP
- Contact material: Copper Alloy
- Contact plating: Gold
- Durability: 5000 mating cycles
- Working voltage: 50 V AC



653237

Type	Mfrs. List No.	Order Code	1+	10+	50+
Un-shielded					
Standard	693010010601	208-1356			
Shielded					
Standard	693010020611	208-1357			
Without Card Stop	693010030601	208-1358			

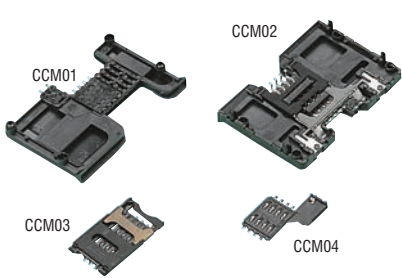
SIM Card Connector

MOBO 2.54mm pitch - Slide in



- For use with both full ISO and micro SIM cards
- Integral guides aid card insertion
- Rounded contact design avoids damage during and after card insertion
- Gold plated contacts rated to 0.5A
- 5000 mechanical cycles
- Insulator is moulded from high temperature plastic
- Can be used in convection or infra red soldering processes

CCM Series



CCM01 Papillion SMT 8 or 16 way reduced contact base sealed end travel switch
 CCM02mk2 Advanced landing style contacts for long life in SMT and through hole versions
 CCM03 Landing style contacts 16 way for intensive use with sealed end travel switch
 CCM04 GSM style for mini smart cards for POS and mobile phones in 6 way and 8 way
 SMT small package miniature connectors in 8 way for use in limited space applications

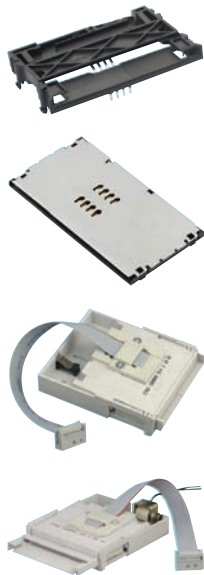
Operating life	CCM01 100000 CCM02 200000 CCM03 10000 CCM04 100000	Term plating Cover/housing Insulation resistance Test voltage Current	Tin Thermoplastic >MΩ >1KV rms 10μA min 1A max <100mΩ
Contacts	Copper Alloy	Contact resistance	
Contact plating	Gold over Nickel		

210058

Mfrs. List No.	Description	Order Code	1+	500+	1K+	Price Each
CCM01-2013AP LFT T30	8 way Papillion SMT end travel switch sealed	SMD 171-8026				
CCM01-2252ALFT	16 way Papillion SMT end travel switch sealed	121-4865				
CCM02-F503LFT T30	MK2 8 way through hole end travel switch sealed	171-8028				
CCM02-2504LFT T30	MK2 8 way SMT end travel switch sealed	SMD 171-8027				
CCM03-3013LFT R102	6 way & card detectors switch unsealed	165-0186				
CCM03-3001LFT R102	6 way low profile 2.5mm high	122-2712				
CCM03-3003 LFT	8 way low profile 2.5mm high	121-4869				
CCM03-3505LFT R122	6 way profile fixed cover	122-2420				
CCM03-3504LFT R122	8 way low profile fixed cover	122-2713				
CCM04-5427LFT-R901	8 way moulding height 2.75mm sealed end travel switch	171-3331				

Smart Card Reader

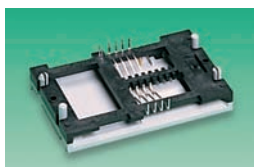
C702 Series



- **Wiping XXS**
 - Cleans the contact point during each mating cycle
 - PCB mounting
 - 100000 mating cycles
 - Normally closed switch
- **PCB Slimline**
 - Extremely compact design
 - Metal cover
 - 100000 mating cycles
- **VARIO Push Pull**
 - 500000 mating cycles
 - Landing self cleaning contacts
 - Card presence switch
 - Push Pull card handling system
- **Pushmatic**
 - 300000 mating cycles
 - Landing self cleaning contacts
 - Card presence switch
 - 12V flat cable termination
 - Automatic card release

620146

Description	Order Code	Price Each			
		1+	10+	50+	100+
Wiping XXS	184-9551				
Wiping XXS 3mm	184-9552				
Wiping XXS 5mm	184-9553				
PCB Slimline	184-9555				
Vario Push Pull	184-9556				
Pushmatic	184-9558				
Bezel	184-9557				



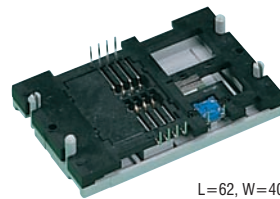
- A range of chip card connector products, with wiping and landing contacts
- Provides electrical connection of chip cards according to ISO7810-7813
- Variants for different environments, friendly, harsh or space critical
- Wide range of application : data terminal, security, Epos payment, metering

Current rating	1A max 10μA min	Voltage rating	Dielectric withstand voltage	≥ 300Vrms ≥ 1000Vrms
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Contact resistance	≤100mΩ	Housing	Self extinguishing thermoplastic UL94V-0
Insulation resistance	≥MΩ	Contact	Copper Alloy, Gold over Nickel
Operating temperature	-40°C to +90°C	Pins	Copper Alloy, Tin over Nickel

209839

L26 Series



L=62, W=40, D=9

- Wiping technology
- Protected contacts
- Suitable for all environments
- Sealed switch card detection
- PCB mounting
- 100,000 card insertions



209844

Mfrs. List No.	Order Code	1+	25+	50+	100+	250+	Price Each
7434L0825S01LF	109-8026						

Smart Card



- Accept 0.76mm thick integrated circuit type Smartcard ISO 7816-7816 or ISOP8-AF-NOR standard and GSM 11.11 standards for SIM cards
- Include switch
- 30,000 mating cycles, with up to 300,000 mating cycles on high durability version

Housing	Glass Filled PBT, Black	Contact Plating	Gold over Nickel
Mounting Style	Features	Mfrs List No.	Order Code
Full Size Card			
Through Hole	Low Profile	5953398-1	128-4403
Through Hole	High Profile	5953438-1	128-4404
Panel Mount	60mm Ribbon Cable Termination	5953497-1	128-4406
Through Hole	High Durability	1705054-1	128-4407

451279

No. of Contacts	Mfrs. List No.	Order Code	1+	10+	50+	100+	Price Each
Full Size Card							
8	5953398-1	128-4403					
8	5953438-1	128-4404					
8	5953497-1	128-4406					
8	1705054-1	128-4407					

Memory Card Connectors

Memory Card Connectors



- Push to push eject
- Durability: 10000 cycles
- 90° entry angle
- Operating temperature: -25°C to 85°C

molex

NEW

Mfrs. List No.	Dimensions (mm)			Order Code
	H	W	D	
503182-0853	1.45	14.94	14.95	206-4061
503398-0891	1.28	13.1	14.05	206-4062
502774-0891	1.8	14.3	16	206-4063
503500-0991	2.95	27.4	27.4	206-4067

658354

No. of Contacts	Mounting Type	Mfrs. List No.	Order Code	1+	10+	100+	500+
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Micro SD

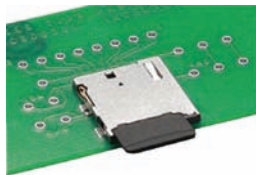
8	Normal	503182-0853	206-4061				
8	Normal	503398-0891	206-4062				
8	Reverse	502774-0891	206-4063				

SD

9	Normal	503500-0991	206-4067				
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microSDTM™ Memory Card Connector

5138 Series



- 5138 series conforms to the microSDTM™ standard
- Lowest profile in the industry at 1.6mm in height
- Developed for equipment requiring portability
- Spring-eject mechanism
- Equipped with card detection switch
- Card locking mechanism
- The outer lead frame enables rework after mounting

Specifications:-

Material Insulator	LCP	Contact Material	Phosphor Bronze
Contact Plating	Gold	Current Rating	0.5A
Voltage Rating	5V AC/DC	Withstanding Voltage	rms/min
No. of Ways	8	Pitch	1.1 / 1.7 mm
No. of Mating Cycles	10000	Operating Temperature	-25°C to 85°C

532806

Mfrs. List No.	Stack Height	Order Code	1+	10+	50+
045138008100858+	1.6mm	213-4442			

Combo Memory Card Connectors



- SIM/microSD card combo connectors
- Push to push eject
- Card detection switch
- Durability: 10000 cycles
- Voltage rating: 5V ac/dc
- Current rating: 0.5A
- 90° entry angle
- Operating temperature: -25°C to 85°C

molex

NEW

Dimensions (mm): H=2.75, W=16.7, D=16.6

658364

No. of Contacts	Mfrs. List No.	Order Code	1+	10+	100+	500+	1K+
16	49448-1411	206-4064					
18	49448-1611	206-4065					

SD Cards

NEW



- Colour: Black
- Working voltage: 100 VAC
- Contact material: Copper alloy
- Contact plating: Gold
- Durability: 10000 mating cycles

653240

Insertion/Extraction Mode	Mfrs. List No.	Order Code	1+	10+	50+
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Standard 9 Way SD Card

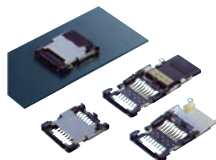
Push/Push	693061010911	208-1359			
Push/Pull	693063010911	208-1360			
Push/Pull	693063020911	208-1361			

8 Way Micro SD Card

Push/Push	693071010811	208-1363			
Hinge	693072010801	208-1364			

MicroSD™ Hinge Type Memory Card Connector

ST1 Series



- Push-slide hinge type connector for microSD card
- Shield characteristic is secured by the 4 ground connection points
- Compact, slim, low profile design
- Card lock mechanism
- Dimensions (HxWxD) - 1.9 x 14.15 x 16.3mm

Specifications:-

Current Rating	0.5A per pin	Rated Voltage	10V per pin
No. of Contacts	8	Withstanding Voltage	500VAC per min.
Pitch	1.1mm	Contact Material	Copper Alloy
Contact Plating	Gold over Nickel	Housing Material	Synthetic Resin
Insulation Resistance		Contact Resistance	100mohm
Flammability Rating	UL94V-0	Operating Temp.	10000
Operating Temp.	-25°C to 85°C		

537278

Mfrs. List No.	Order Code	1+	10+	25+	100+
ST1W008S4ER1500	170-2072				

Micro SD TransFlash Memory Card Holders

molex



Trans Flash is the world's smallest memory card storage system. Offering over 70% volume savings versus miniSD, Trans Flash will store up to 256MB of removable memory. Molex offer two types of Trans Flash connectors, a hinged version intended for one-time card insertion applications and a push-push design for scenarios where the card will be removed more frequently.

- Hinged and push-push types
- Solder tails on inside of design
- Gold plated bevelled contacts
- Metal shielding with shell tabs

Push-push card holder		Insulation resistance	
Voltage rating	10V		1000MΩ min
Current rating	0.5A	Operating temperature range:	-25°C to +85°C
Contact resistance	80mΩ max	Mating cycles	1000
Withstand voltage	500V	Housing Material	LCP Liquid Crystal Polymer
		Contact Material	Phosphor Bronze- Gold

383439

Mfrs. List No.	Order Code	1+	10+	25+	50+
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Push-Push Card Holder

500873-0806	157-2016				
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Push-Push Card Holder with Detect Switch - Reverse Mount

49225-0821	136-6700				
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Hinged Card Holder

500901-0801	134-4008				
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Micro SD Card Header

Push-Pull block type with Detect Switch

molex



These simple push-pull block type connectors are designed for cell phones and other mobile devices that use removable flash memory to store data. The MicroSD standard has evolved from the previous Transflash standard.

- Card detect switch
- Low Profile compact size
- Metal shield

Voltage	5V DC	Withstand Voltage	500V AC
Current rating	0.5A	Contact Resistance	25mR
Contacts	Phosphor Bronze	Insulation Resistance	mR
Operating temperature	-40°C to +85°C		

510462

Mfrs. List No.	Height	Order Code	1+	10+	25+	50+
47309-2651	2.65mm	156-8092				
47309-3351	3.35mm	156-8093				
47309-3751	3.75mm	156-8094				

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

Micro SD and SIM Card Connector



233418



Current Rating
Insulation Resistance
Dielectric Voltage
Contact Resistance
Mating Cycles

0.5A
1000MΩ Min.
500V ac
100mΩ Max.
10000

601395

Description	Order Code	Price Each					
		1+	10+	25+	50+	100+	600+
Micro SD and SIM	177-9006						

Micro SD and SIM 1.27mm Pitch



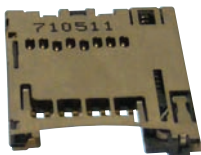
This connector is an integration of SIM and micro SD™ within a compact structure to minimise mounting space yet allowing the 2 cards to be inserted at the same time. This is achieved by the orientation of the cards, their insertion being at 90° to each other allows both cards to be inserted without interference from the other card. There is a slide insertion for the SIM and a Push/Push operation for the micro SD™

Temperature Range	-25°C to +85°C	Contact Plating	Gold
Contact Material	Nickel	Mating Cycles	6000

505789

Description	Mfrs. List No.	Order Code	Price Each		
			1+	10+	50+
Micro SD / SIM	00 9162 006 501 150	156-5198			

Micro SD Connector



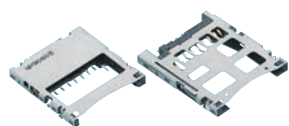
- Excellent insertion click
- Rugged connectivity maintains connections
- Supports embossed packaging

Insulator Contact	Thermoplastic Copper Alloy	Shell Plating	Copper Alloy Gold over Nickel
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601446

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Micro SD	1871602-1	176-2948				

SD Memory Card Connectors (Header)



- 2.5mm pitch
 - 9 circuits
 - Push - Push eject
- | | | | |
|------------|-------|-------|------|
| Order Code | L | W | H |
| 131-8471 | 29.80 | 27.90 | 3.10 |

249748

Mounting Type	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
Shielded - Standard					
Normal	5009980900	131-8471			

Card Connectors SMT Secure Digital



SG1 - Secure Digital

- Push-Push card insertion and extraction
- 3.3mm height when mounted
- First mate last break contacts
- MMC can be inserted

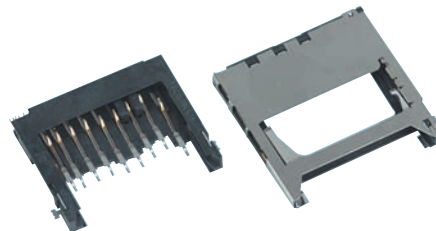
Applications

DSC,DVC,PDA,HPC,portable audio-,game machines and other compact portable devices

Current Rating	0.5A max	Contact Spacing	SG1 2.5mm
D W Voltage	500V AC rms 1 min	Withstand Voltage	500V rms per minute
Insulation Resistance	1000MΩ min	Operating Temperature	-25°C to +85°C
Contact Resistance	100mΩ max		

No. Contacts	Mfrs. List No.	Order Code	Price Each			
			1+	100+	250+	500+
13	SG5S009V1A1	996-5076				

Secure Digital / Multi Media Card Connectors FPS - Series



- Connector for both SD and MMC cards
- Cryptographic security feature built into the SD card makes it ideal for use in secure transactions
- Premium quality ensures 10,000 mating cycles

Insulation Resistance	MΩ min	Current Rating	0.5A
Withstand Voltage	500V AC rms	Operating temperature range:	-25°C to +85°C
Contact Resistance	100mΩ max	Mating Cycles	10,000
Voltage Rating	250V AC	Coplanarity	≤0.1mm

	Type	Card		Write Protection
		Detector	SMT	
FPS009-3000	Simple Eject	YES	-	YES
FPS009-3001	Simple Eject	YES	YES	YES
FPS009-3003	Manual	-	YES	-
FPS009-2405-0	Push/Push	YES	YES	YES

248984

Mfrs. List No.	Order Code	Price Each		
		1+	50+	100+
FPS009-3000	429-7568			
FPS009-3001-BL	114-3952			
FPS009-3003-BL	114-3953			
FPS009-2405-0	114-5893			

SDIO Memory Card Connectors 5738 Series



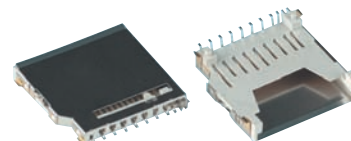
Heat Resistant Plastic Au (0.25μm Min.)	Copper Alloy 0.5A
5V AC/DC	500Vrms/min
9	2.5 / 1.7 mm
10000	-25°C to 90°C

- 5738 series is a range of SDIO memory connectors
- Two tail types available - outer tail suitable for notebook PCs and digital AV equipment, and inner tail suitable for mobile phones and PDA
- Low profile design - stacking heights range between 2.7 & 2.9mm
- Spring-eject mechanism
- Equipped with write protection switch and card detection switch

523628

Mfrs. List No.	Tail Type	Stack Height	Order Code	Price Each		
				1+	10+	50+
14 5738 009 784 859+	Outer Tail	2.8mm	155-8174			
14 5738 009 302 859+	Inner Tail	2.9mm	155-8175			
14 5738 009 220 859+	Outer Tail	2.7mm	155-8176			

Secure Digital Card Connectors



- 10,000 insertion cycles
- With or without cover
- For Secure Digital and Multi Media use

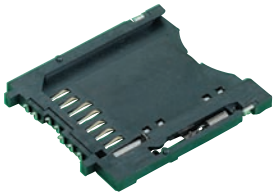
Contacts	Copper Alloy	Voltage Rating	250V AC
Insulation resistance	1000MΩ	Current Rating	0.5A AC/DC Max
Contact resistance	40mΩ	Temperature range	-25°C To +85°C

270109.342987

	Order Code	Price Each		
		1+	50+	100+
Without Cover	918-6140			
Metal Cover	918-6158			
2.0mm Standoff. Metal Cover	918-6166			
Push in / Push out	918-6174			

Memory Card Connectors - continued

Multimedia Card Connector



- Low Profile - 3mm height
- Surface Mount
- "Push-Push" mechanism. One push to card edge for smooth insertion and extraction
- 2.5mm pitch

Current Rating	0.5A AC DC	Contacts	Phosphor Bronze
Voltage	5V AC DC	Plating	Gold
Contact Resistance	Initial/Max 30mΩ	Housing	LCP
Dielectric Voltage	500V AC 1 min	Mating Cycles	10000
Insulation Resistance	Min 1000MΩ at 500V dc	Temperature Range	-25°C to +85°C

No. of Contacts	Mfrs. List No.	Order Code	1+	5+	25+	100+
7	MMC-7S-412R(LF)(SN)	949-1996				

Multi Media Card Connector



- MMC use only
- 10,000 insertion cycles

Contact Voltage Rating	Copper Alloy 250V AC	Current Contact resistance	0.5A AC/DCmax 40mΩ
Insulation resistance	MΩ	Temperature Range	-25°C To +85°C

	Order Code	1+	50+	100+
Without Cover	918-6182			
Metal Cover	918-6190			
2.0mm Stand Off Metal Cover	918-6204			
Push in / Push out	918-6212			

ROCARD™ -Rugged Original CARD



- Complies to PC card and JEIDA standards
- Rugged concept with unique SnapFit latches
- Integrated frame bar within shield
- 4; 15 position I/O connectors: closed end
- Standard, 3.3V, 5V and Cardbus options
- Designed for automated-or hand assembly

Mfrs. List No.
10014744-002SLF = 121-1674
83808-21111LF = 117-6529

Withstanding voltage	500V rms
Current rating	A0.5A per contact
Contact resistance	40mΩ initial; mΩ after cycling
Temperature range	Operating: -20/+60°C; Storage -55/+85°C
Body material	Stainless Steel, LCP
Contact material/plating	68 pos receptacle: Beryllium Copper plating Au 0.1µm min over PdNi 0.5µm min I/O connectors: Phosphor Bronze, plating Au 0.1µm min over PdNi 0.5µm min

68 Posn. Receptacles	Order Code	1+	10+	25+	50+	100+
Standard SMT IL 0.3mm PCB off-set	121-1674					
Card Shields - Type 2						
1 I/O, label recess, insulator, Card Bus	117-6529					

Compact Flash Card Sockets

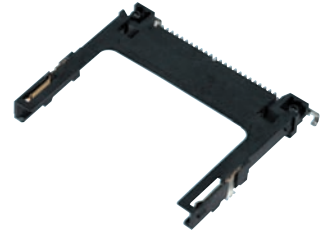
NEW



- Number of ways: 50
- Colour: White
- Contact material: Copper alloy
- Contact plating: Gold
- Durability: 10000 mating cycles
- Working voltage: 100V AC

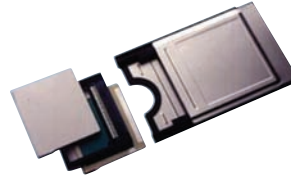
Type	Mfrs. List No.	Order Code	1+	10+	50+	100+
Standard	693120015011	208-1365				
Reverse	693120025011	208-1366				
Shrouded	693120035011	208-1367				

Compact Flash (CF) Memory Card Connectors



Ejector

Header

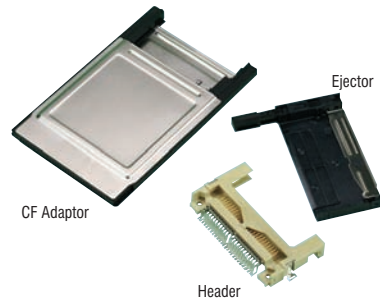


- CF memory cards available with storage capacities up to around 12GB
 - Type I and II CF cards accepted
 - Using the adaptor a CF card can be connected to a standard Type II PC Card slot
- Note: Card ejector mechanism supplied separately to card connector (header)

Voltage rating	100V	Mating cycles	10000
Current rating	0.5A	Material- Header	Steel
Contact resistance	40mΩ max	Material- Ejector	Steel
Withstand voltage	100V	Material- Adaptor	Steel
Insulation resistance	1000MΩ min	Contact Material	Steel
Operating temperature range:	-20°C to +90°C		

Type	Mfrs. List No.	Order Code	1+	10+	50+
Header					
Top Mounting	55358-5029	121-1009			
Bottom Mounting	553595029	121-1011			
Ejector					
Left Side Button	0553640011	121-1010			
Right Side Button	55365-0011	121-4095			

Compact Flash™ Interconnectors



CF Adaptor

Header

- Ejector, (SMT) card headers and PC card adaptor to support compact flash card
- Total interconnect solution for compact flash
- Light, compact eject mechanism
- Standard header = 6.64mm height, Low profile header = 4.00mm
- Adaptor converts compact flash card to PC card

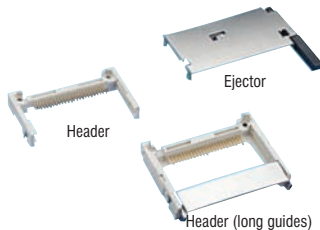
Current rating (Header)	0.5A	Ejector	-55°C to +85°C
Insulation resistance (Header)	1 x MΩ	Material Header	Liquid crystal polyester UL94V-0
Temperature range Header	-55°C to +85°C	Ejector	PBT UL94V-0

Mfrs. List No.
N7E50-7516-VY-20 = 634-529, D7E50-7316-03 = 634-530, 20468-0000-11 = 634-542
N7E50-7516 PK-20=1034424, N7E50-E516PK-30=1034423

Type 1	Order Code	1+	10+	50+	100+	250+
Header	SMD 103-4424					
Ejector	117-6694					
Embase Bas Profil	SMD 103-4423					

Compact Flash™ Interconnectors

Type II



- Headers mate with Type I & II
- Top or bottom boardmount
- Optional 2mm board stand off
- Standard header = 6.64mm height, Low profile header = 4.00mm
- Adaptor converts compact flash card to PC card

Current rating (Header)	0.5A	Adaptor	-40°C to ++85°C
Insulation resistance (Header)	10MΩ	Material Header	
Temperature range Header	-40°C to ++85°C	Ejector	PBT UL94V-0
Temperature range Ejector	-55°C to ++85°C		

Order Code	Mfr. No.
126-7443	N7E50-Q516RB-50
103-4422	N7E50-M516RB-50
126-7444	N7E50-Q516RB-50
126-7445	N7E50-Q516RB-50

449956

Type II	Order Code	1+	10+	50+	100+	250+
Header	126-7443					
Header	103-4422					
Header	126-7444					
Header	126-7445					
Ejector, Right Button	126-7446					
Ejector, Left Button	126-7447					

PCI Express

PCI Express Card Receptacles

1mm Pitch



- Body colour: Black
- Body material: Nylon
- Contact material: Phosphor bronze
- Contact plating: Gold
- Current rating: 2.5A

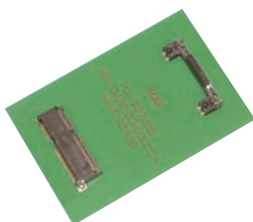


655149

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
Edge Mount						
36	PCIE-036-02-F-D-EMS2	208-5389				
64	PCIE-064-02-F-D-EMS2	208-5390				
98	PCIE-098-02-F-D-EMS2	208-5391				
164	PCIE-164-02-F-D-EMS2	208-5393				
Right Angle						
36	PCIE-036-02-F-D-RA	208-5394				
64	PCIE-064-02-F-D-RA	208-5395				
98	PCIE-098-02-F-D-RA	208-5396				
164	PCIE-164-02-F-D-RA	208-5397				

PCI Express Mini Card Compatible Connectors

MM60 Series



- Can be used with PCI Express Mini Card & USB transmission
- Compatible with the PCI-SIG standard
- Retention latches available to fix module to connector
- Two mounting heights available - 3.9mm, 5.9mm
- Components under 1.8mm in height can be placed below the module
- Connector and latch are compatible with automatic mounting

Current Per Pin	0.5A	Dielectric Withstanding Voltage	300VAC r.m.s. (1 min.)
Contact Material	Copper Alloy	Contact Plating	Gold over Nickel
Material Insulator	Heat Resistant Plastic	Flammability Rating	UL94V-0
Pitch	0.8mm	Contact Resistance	55mohm
No. of Ways	52	Operating Temperature	-40°C to 80°C
Mating Cycles	50		

532698



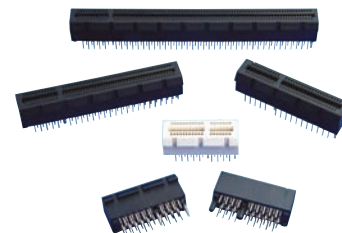
Module Height	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
3.9mm	MM60-52B1-B1-R850	SMC169-8820					
5.9mm	MM60-52B1-E1-R650	SMC169-8821					

Retention Latches with Boss

Application Height	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
3.9mm	MM60-EZH039-B5-R850	SMC169-8822					
5.9mm	MM60-EZH059-B5-R650	SMC169-8823					

PCI Express™ Connectors

1mm Pitch



These 1.0mm pitch, vertical card edge connectors are used to implement the PCI Express™ strategy in ATX or ATX-based desktop PCs and server systems. The connector family offers 1, 4 & 16 high-speed serial PCI Express Lanes. Each serial lane supports 2.5 Gbps data rate (per direction).

- 1, 4, & 16 serial PCI Express links to suit different bandwidth requirements
- Supports 2.36mm thick motherboards
- Through-mount soldertails are offset to form four rows on 2.0mm pitch
- Moulded polarisation key prevents mis-alignment when mating
- A retention clip may be mounted on the add-in card and latched over the ridge of the connector

Withstand Voltage	300Vac	Mating force	1.15N
Insulation resistance	MΩ	Host PCB thickness	2.36mm
Mating cycles	50	Add-in PCB thickness	1.56mm
Contact finish	Gold over Nickel		

Housing: Glass Filled High Temp. Nylon
Current rating: 1.1A for 8 specified power contacts and 8 nearest ground contacts

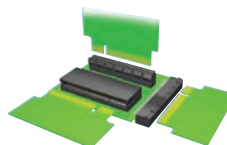
Mfrs. List No.	10018783-11110TLF = 114-4435	10018783-10113TLF = 114-4437
	10018783-11111TLF = 114-4436	10042618-002LF = 114-4438

430143

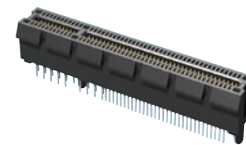
Double Sided	Order Code	1+	50+	100+	500+
2 x 18	114-4435				
2 x 32	114-4436				
Accessory					
Retention Clip	114-4438				

PCI Express Connectors

PCIe Series



Edge Mount Version



Through Hole Version

- Mates with 1.6mm card
- Through Hole
- Dual Row
- Alignment Pins

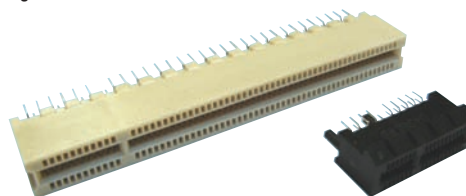
Specifications:-	Phosphor Bronze	Contact Plating	Gold over Nickel
Contact Material	Nylon	Pitch	1mm
Operating Temp.	-55°C to 125°C		

547674

No. of Ways	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Through Hole Version							
36	PCIE-036-02-F-D-TH	175-3906					
64	PCIE-064-02-F-D-TH	175-3907					
98	PCIE-098-02-F-D-TH	175-3908					
164	PCIE-164-02-F-D-TH	175-3909					

PCI Connectors

Standard Edge .050 Series



PCI Express - continued

PCI Connectors - continued

Standard Edge .050 Series - continued

- High Density .050 (1.27mm) centreline contact spacing
- Easy mating of high circuit count daughter boards
- Polarisng web for positive board-to-connector registration

Housing Glass-filled High Temperature Thermoplastic
Contacts Gold Plated

No. of Dual Positions	Total No. of Ways	Mftrs. List No.	Order Code	1+	50+	100+	+
60	120	5145154-4	128-4366				

Memory Sockets

DDR 3 DIMM Socket

1mm Pitch



NEW

These DIMM sockets address interconnect requirements across server, communications, and notebook platforms. They are designed around JEDEC industry standards. Sockets are designed to meet high speed data applications where peak performance is required.

- Housing material: Thermo plastic
- Flammability rating: UL94V-0
- Contact material: Copper Alloy
- Contact plating: Gold

Tail Length	Mftrs. List No.	Order Code	1+	10+	50+	100+
Natural Housing Colour						
2.67 mm	1932031-1	181-6483				
3.18 mm	1932031-2	181-6484				
Black Housing Colour						
2.67 mm	1932031-7	181-6485				
3.18 mm	1932031-8	181-6486				

DDR 3 DIMM Right Angle Socket

0.6mm Pitch



NEW

These DIMM sockets address interconnect requirements across server, communications, and notebook platforms. They are designed around JEDEC industry standards. Sockets are designed to meet high speed data applications where peak performance is required.

- No of ways: 240
- Colour: Black
- Housing material: High temperature thermo plastic
- Contact material: Copper alloy

Contact Plating	Mftrs. List No.	Order Code	1+	10+	50+	100+
4mm Profile Height						
Gold Flash	2013022-1	181-6487				
Gold (6)	2013022-2	181-6488				
5.2mm Profile Height						
Gold Flash	2013289-1	181-6489				
Gold (6)	2013289-2	181-6490				

DDR 3 DIMM Surface Mount Socket

1mm Pitch



NEW

- Colour: Black
- Vertical mounting orientation
- Number of ways: 240
- Housing material: Thermoplastic
- Contact plating: Copper Alloy

Contact Plating	Mftrs. List No.	Order Code	1+	10+	50+	100+
Gold Flash	2040727-1	181-6491				
Gold (15)	2040727-4	181-6492				

DDR 3 Mini DIMM Socket

0.6mm Pitch Right Angle



This Mini DIMM socket address interconnect requirements across server, communications, and notebook platforms. It is designed around JEDEC industry standards. The socket is designed to meet high speed data applications where peak performance is required.

NEW

- Number of contact: 244
- Housing material: LCP
- Contact material: Copper Alloy
- Contact plating: Gold (30)

Mftrs. List No.	Order Code	1+	10+	50+	100+
1735438-2	181-6481				

DIMM Sockets

DDR3 Connectors



NEW

Extractor	Housing	Tail Length (mm)	Mftrs. List No.	Order Code	1+	10+	25+	50+
Natural	Green	2.67	1932000-1	179-4935				
Natural	Blue	2.67	1932000-2	179-4936				
Green	Black	3.18	1932000-3	179-4937				
Blue	Black	3.18	1932000-4	179-4938				
Natural	Black	2.54	1932000-5	179-4939				
Black	Black	2.54	1932000-6	179-4940				

Bluetooth Connector Systems

IP68 Bluetooth Cable Replacements

RS232 / RS485



- Dust & waterproof to IP68, EN60529 when mated
- RS485 & RS232 Serial data to Bluetooth Adapter
- Up to 57600 Band, full / half duplex
- Wireless transparent data connection
- Self connecting for true cable replacement
- Built-in sealed antenna
- Range - Up to 100m class 1, up to 25m class 2
- Mates with PX0884 as well as Farnell p/ns 469-713, 978-050

Technical Specifications:-
Body Moulding Nylon Flammability Rating UL94V-0
Lens Nylon Operating Temp. -20°C to 70°C
DC Supply 6 to 24Vdc Contacts Copper alloy, Gold plated

Mftrs. List No.	Class	Order Code	1+	5+
Master Units				
PX0885/01/M	Class 1	162-9385		
PX0885/02/M	Class 2	162-9387		
Slave Units				
PX0885/01/S	Class 1	162-9386		
PX0885/02/S	Class 2	162-9388		

Fibre Optic Connectors

ST, SC Hot Melt Connectors with Tooling

3M



- High performance hot melt connectors
- Qualified to TIA/EIA 568B standards
- Pre loaded with adhesive
- PC zirconia ceramic ferrule provides superior optical contact and durability
- Hot melt termination kit contains all materials necessary to terminate 3M connectors

Termination Kit Contents	Mfrs List No	Quantity
230V Oven	6323	1
Universal Holder	6365-UH	6
Round Polishing Pad	6365-PP	1
Soft Polishing Pad	8365-PP	2
2µm Lapping film (pale green)	6192-A	200
0.5µm Diamond film (pale gray)	661X-0.5S	15
0.5µm Final Lapping film (frosted)	863X-0.02S	50
0.5µm Lapping film (pale yellow)	263X	50
Polishing Jig	8892	3
Jacket Stripper	6365-JS	1
Kevlar Snips	6365-KS	1
Stripping Tool	6365-ST	1
Crimp Tool	6365-CT	1
Fibre Scribe	6365-FS	1
View Scope (200X)	6365-VS	1
Pronto Adhesive	CA-8	1
Lint Free Clothes	--	100
230V UK Power Cord	--	1
230V EU Power Cord	--	1
Alcohol Bottle (empty)	--	1
Water Bottle (empty)	--	1
Fibre Scrap Can	--	1
Roll Up Pouch	--	1
Fibre Marking Pen	--	1
Training CD Rom	--	1
Instructions (Paper)	--	1

386538/406739

Type	Order Code	1+	10+	25+
Connector, ST Hotmelt	121-1041			
Termination Kit	121-1042			

ST Coupler



- Allows terminated fibre cables to be coupled together
- Die cast metal housing, polymer alignment sleeve
- Supplied with lock nut and washer
- Intermateable with all "ST style" connectors



221559/406742

Mfrs. List No.	Order Code	1+	10+	50+
ST Coupler	501381-1			

SC Coupler



- Allows terminated fibre cables to be coupled together
- Plastic housing with metal alignment sleeve
- Accepts 2 x simplex connectors or one duplex connector each side
- Intermateable with any SC type connector



221558

Mfrs. List No.	Order Code	1+	10+	50+
SC Coupler	5504640-1			

FREE GLOBAL LEGISLATION SUPPORT

RoHS, REACH, WEEE, ErP, Batteries Directive - latest updates, free white papers and live online Q&A at element14.com/legislation



Signal and Data Tools

Modular Ratchet Tool and Dies

For DataCom Connectors



- Modular tool with interchangeable die sets
- 7 die sets to suit most RJ connectors
- ABS case holds 1 tool and 7 die sets

Part No. Description

1302	1300 Series Universal Tool Frame
2062	Crimp Die RJ11/RJ12 6P6C, 6P4C 6P2C WE / Stewart
2064	Crimp Die RJ45 8P8C (8 Pin) Tyco AMP
2068	Crimp Die RJ50 10P10C (10 Pin)
901013	ABS Tool Case

272152

Mfrs. List No.	Order Code	1+	3+	5+
Universal Tool Frame				
1302	887-146			
Crimp Dies				
2062	439-2498			
2064	439-2516			
2068	439-2530			
ABS Tool Case				
901013	377-6657			

8000 Series CrimpALL™ Fibre Optic Crimp Tool

Interchangeable Die Sets



Incorporates 4 important ergonomic features that improve user satisfaction and job function:

1. Angled head prevents awkward wrist bending during operation.
2. Reduced handle grip distance is comfortable for workers with small and large hands.
3. The higher crimp force is produced with a lower hand force so hands don't tire as quickly.
4. No breakover hand force.

- Ergonomic design
- Long lasting tool that delivers over 50,000 crimp cycles
- Ultra-smooth, fully-ratcheting cycle with built in safety release
- Double plated jaw assembly
- Comfortable rubber embedded handles.

Interchangeable Dies	Interchangeable Dies
Order Code	Application
413-2660	SMA, SMB, SFR, ST and SC type

240407

	Order Code	1+	5+	10+
Crimp tool frame	413-2658			
Die set 2652	413-2660			

DataReady Kit



A complete Cat5 datacomm tool set in a handy zipper case. Kit includes:

- All in one telephone tool for RJ45 and RJ11
- Impact punch-down tool with 110 and 66 blades
- AM12 cutter/stripper for unshielded and shielded cable
- Patch-Check continuity tester
- Category 5 RJ45 connectors (x20)
- Zipper case with carrying strap and complete instructions

232159

Desc	Mfrs. List No.	Order Code	1+
DataReady Kit	901053	388-8320	

Signal and Data Tools - continued

Premise Service Kit

AMP/Krone kit



A large data, voice and coaxial LAN installation kit providing everything for twisted pair and coaxial cable installation. Kit contains:

- KT8 round cable cutter - 900265
- Data SureStrip™ UTP/STP & flat satin cutter/stripper - 1116
- LC CST-58/59 coax stripper - 1255
- FlatCat™ flat satin cable cutter/stripper - 1160
- CrimpALL® CrimpFrame with EZI-CHANGE™ thumb screws - 8000
- Die sets:
RJ45 AMP-style - 2061
RJ11 AMP Style - 2062
RG58/59/62AU BNC/TNC - 2034
- SurePunch™ PDT punchdown tool - 3570

- SurePunch™ 110 reversible blade - 4572
- SurePunch™ Krone reversible blade - 4573
- LAN ProNavigator™ tester - 1543
- Speaker probe with volume control and light - 1571

346115

Mfrs. List No.	Order Code	Price Each
9010391	748-7657	

DIN 41612 Selection Chart

Contact Rating	Body Style	No. of Ways	Contact Arrangement	Comments	
2A @ 250Vac/dc	B	32		2 row body	
		32			
		64			
	1/2B	16		Half length 'B' body	
		32			
	C	32		3 row body	
		64			
		96			
	1/2C	32		Half length 'C' body	
		48			
	6A @ 125Vac/dc	D	32		
		F	48		
15A @ 500Vac/dc	H	15			
6A @ 125Vac/dc 15A @ 500Vac/dc	MH	24+7		Mixed contact bodies	
Signal 3A @ 350V ac/dc Power 10A Coax 50Ω	M	42+6			
		60+4			
		78+2			

2A @ 250Vac/dc	Q	64		Reverse sex 'B' body
	1/2Q	32		Half length 'Q' body
	R	64		Reverse sex 'C' body
		96		
	1/2R	32		Half length 'R' body
		48		

● = Populated, + = Unpopulated, ○ = Mounting hole

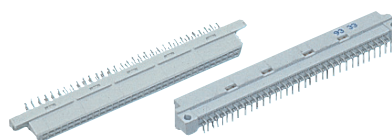
209682

DIN41612 Performance Levels

Classes 1, 2 and 3 are the performance levels as specified in **DIN41612, part 5**. Connectors appearing in this catalogue will meet the minimum performance levels as shown below and will often exceed them. See individual connector specifications.

209757

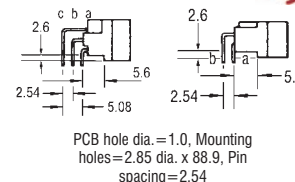
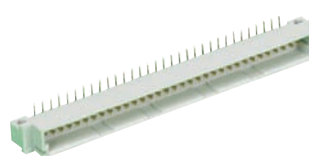
DIN41612 Class 1,2 and 3



	Class 1	Class 2	Class 3
Mating cycles	500	400	400
Industrial atmospheres	10 days	4 days	
Gold plating thickness	0.8μ	0.3μ	Female 0.3μ/ Male 0.1μ
Contact rating	2A @ 20°C	Insertion/ extraction force	96 contacts≤90N/≥15N
Contact resistance	15mΩ max		64 contacts≤60N/≥10N
Working voltage	330Vac/470Vdc		32 contacts≤30N/≥5N
Insulation resistance	Ω	Housing Colour	Polyester, 32 Light Grey
Test voltage between contacts	1000Vrms	Contact material	Phosphor Bronze
contacts and earth	1500Vrms		Brass
Temperature range	-65°C to +125°C	Contact plating	Gold over Nickel
		Termination	Tin/Lead over Nickel

209761

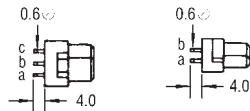
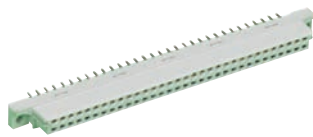
90° PCB Plugs 'B' and 'C' Body



209762

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	250+
Class 1							
2 Row 'B' Body							
32	a	109-7917					
64	a+b	109-7918					
3 Row 'C' Body							
32	a+c(even)	109-7919					
64	a+c	109-7920					
96	a+b+c	109-7922					
Class 2							
2 Row 'B' Body							
32	a	109-7923					
64	a+b	109-7924					
3 Row 'C' Body							
64	a+c	109-7925					
96	a+b+c	109-7926					
Price Per Pack							
Class 3 (5 Per Pack)			1+	5+	20+	100+	200+
2 Row 'B' Body							
64	a+b	109-7927					

PCB Sockets 'B' and 'C' Body

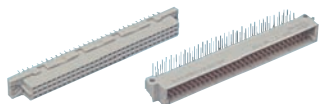


PCB hole dia.=1.0, Mounting holes=2.85 dia.x90.0, Pin spacing=2.54

209763

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	250+
Class 1							
2 Row 'B' Body							
32	a	121-1660					
32	a+b (Even)	121-1671					
64	a+b	121-1661					
3 Row 'C' Body							
32	a+c (Even)	121-1662					
64	a+c	121-1664					
96	a+b+c	121-1665					
Class 2							
2 Row 'B' Body							
32	a	121-1666					
64	a+b	121-1667					
3 Row 'C' Body							
64	a+c	121-1668					
96	a+b+c	121-1669					
Price Per Pack							
Class 3 (5 Per Pack)			1+	5+	20+	100+	200+
2 Row 'B' Body							
32	a+b	121-1671					
3 Row 'C' Body							
96	a+b+c	121-1673					

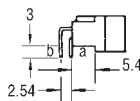
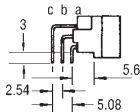
CECC Approved



	Class 1	Class 2	Class 3
Mating cycles	500	400	400
Industrial atmospheres	21	21	—
Contact rating	1.5A @ 85°C	96 contacts≤90N/≥15N	
Contact resistance	20mΩ max	64 contacts≤60N/≥10N	
Insulation resistance	MΩ min.	32 contacts≤17N	
Test voltage between contacts	1000V	Polyester, UL94V-0	
contacts and earth	1500V	Pebble Grey	
Temperature range	-55°C to +125°C	Phosphor Bronze	
		Brass	
		Gold over Palladium over Nickel	
		Termination Tin/lead alloy	

209772

90° PCB Plugs 'B' and 'C' Body



PCB hole dia=1±0.1, PCB mounting hole=2.5 dia x 88.9, Pin spacing=2.54

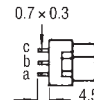
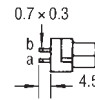
Mfrs. List No. V42254-B1200-B640=112-2923

V42254-B1200-C963=112-2925
V42254-B1200-C960=112-2926

209773

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	250+
Class 2							
2 Row 'B' Body							
64	a+b	112-2923					
3 Row 'C' Body							
64	a+c	112-2925					
96	a+b+c	112-2926					

PCB Sockets 'B' and 'C' Body



PCB hole dia.=1 0.1. PCB mounting hole=2.8 dia.x78.74, Pin spacing=2.54

Mfrs. List No.

V42254-B2102-C963=112-2929

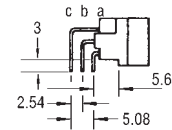
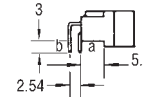
V42254-B2202-C968=112-2931

V42254-B2202-C960=112-2933

209774

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	250+
Class 1							
3 Row 'C' Body							
64	a+c	112-2929					
Class 2							
3 Row 'C' Body							
96	a+b+c	112-2933					

Half Size 'B' and 'C' Body 90° PCB Plugs



PCB hole dia.=1 0.1, PCB mounting hole=2.8 dia.x48.26, Pin spacing=2.54

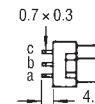
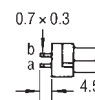
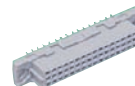
Mfrs. List No.

V42254-B1200-C480=122-2936

209775

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	250+
Class 2							
3 Row 'C/2' Body							
48	a + b + c	112-2936					

Half Size 'B' and 'C' Body PCB Sockets



PCB hole dia.=1 0.1. PCB mounting hole=2.8 dia.x48.26, Pin spacing=2.54

Mfrs. List No.

V42254-B2202-B320=112-2938

V42254-B2202-C483=112-2941

209776

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	250+
Class 2							
2 Row 'B/2' Body							
32	a + b	112-2938					
3 Row 'C/2' Body							
	a + c	112-2941					

Din 41612 Plugs & Sockets

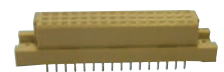
½B / B / ½C / C Body



Plug, Vertical



Plug, Right Angle



Socket, Vertical

- Vertical and Right Angle Plugs available
- Pitch - 2.54mm
- Pitch Row - 2.54mm
- Flammability Rating - UL94V-0
- Operating Temperature - -25°C to 125°C

Body Style	No. of Ways	Order Code	1+	25+	50+	100+	250+
Plug, Vertical							
½B	32	166-1145					
B	64	166-1151					
Plug, Right Angle							
½B	32	166-1147					
Socket, Vertical							
Plug	Current Rating 2A	Voltage Rating 250V AC/DC	Contact Material Copper Alloy	Contact Plating Gold	Insulator Material PBT (Polybutylene terephthalate)		
Socket	2A	250V AC/DC	Phosphor Bronze	Gold	PBT (Polybutylene terephthalate)		

527820

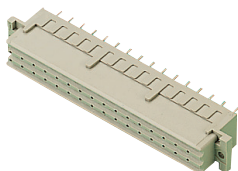
DIN41612 Class 1,2 and 3 - continued

Din 41612 Plugs & Sockets - continued

½B / B / ½C / C Body - continued

Body Style	No. of Ways	Order Code	Price Each				
			1+	25+	50+	100+	250+
Plug, Vertical							
½C	48	166-1148					
C	96	166-1155					
Plug, Right Angle							
½C	48	166-1150					
C	96	166-1157					
Socket, Vertical							
½B	32	166-1146					
Socket, Vertical							
½C	48	166-1149					
C	96	166-1156					

Type F Class 2



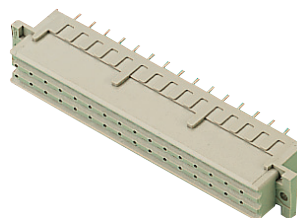
Mfrs. List No.	Type	Description	Positions	Rows	Pin Length(mm)	Order Code
2-164045-4	F	Right Angled PCB Plug	48	z,b,d	2.8	105-6345

Order Code	Price Each				
	1+	10+	50+	100+	500+
105-6345					

Mfrs. List No.	Type	Size	Description	Positions	Rows	Pin Length (mm)	Order Code
5536052-5	B	std	Right Angled PCB Plug	64	a + b	2.64	109-8669
5650860-5	B	std	Straight PCB Skirt	64	a + b	3.3	109-8670
5650473-5	B	std	Right Angled PCB Plug	96	a + b + c	2.64	109-8671
5650945-5	B	std	Right Angled PCB Plug	64	a + c	2.64	109-8672
5535089-5	C	std	Straight PCB Skirt	96	a + b + c	2.49	109-8674
5650458-5	C	std	Straight PCB Skirt	64	a + c	2.49	109-8675
5535032-5	C	std	Straight PCB Skirt with Action Pin	96	a + b + c	4.83	109-8678
5148057-5	C	std	Straight Wire Wrap Skirt	96	a + b + c	13	109-8679

Order Code	Price Each				
	1+	10+	50+	100+	500+
109-8669					
109-8670					
109-8671					
109-8672					
109-8674					
109-8675					
109-8678					
109-8679					

Type R Class 2



Mfrs. List No.	Type	Size	Description	Positions	Rows	Pin Length(mm)	Order Code
5650908-5	R	std	Straight PCB Plug	96	a + b + c	3.3	109-8680
5650479-5	R	half	Straight PCB Plug	48	a + b + c	3.3	109-8681
5650461-5	R	std	Standard R/A PCB Skirt	96	a + b + c	2.79	109-8682
5650868-5	R	half		48	a + b + c	2.79	109-8683

Order Code	Price Each				
	1+	10+	50+	100+	500+
109-8680					
109-8681					
109-8682					
109-8683					

DIN 41612 - Eurocard



- Industry standard 2 piece backplane connector
 - DIN Level II
 - 64 way connectors have rows A + C loaded, 96 way connectors have rows A + B + C loaded
- Current Rating: 1A Durability: 400 mating cycles

No. of Term. Style	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Type C Socket - Straight						
64	Solder Post	9-1393640-3	128-4322			
96	Solder Post	9-1393640-2	128-4323			
Type R Plug - Straight						
96	Solder Post	650889-5	128-4325			

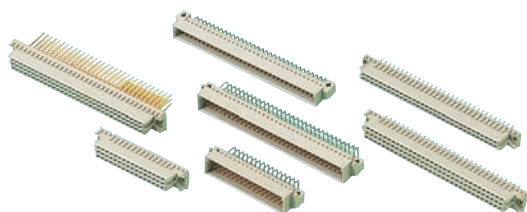
Eurocard Connectors

- Meets DIN 41612 and IEC 603-2
 - Two-piece reliability
 - Polarised housings
 - Flame retardant
 - Action Pin (press fit)
 - Various pin lengths
 - UL and CSA listed
- Temperature Rating: 55°C to 125°C

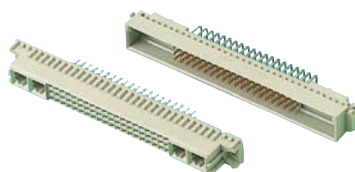


Types B and C

Standard and Half Size Class 2



Type M with Power and/or Coaxial Contacts



Mfrs List No.	Type	Size	Description	Positions	Rows	Pin Length(mm)	Order Code
148412-5	M	std	r/angled pcb plug	60 + 4SC	a + b + c	2.8	105-6348
148384-5	M	std	Straight pcb skt with action pins	24 + 8SC	a + b + c	6	105-6351

Mfrs List No.	Type	Style	Size	Order Code
1392019-1	skt	coaxial		369-6273

Order Code	Price Each				
	1+	10+	50+	100+	500+
105-6348					
105-6351					
369-6273					

High current and coaxial solder contacts for M type connectors

Gds A Series DIN41612 Class 3



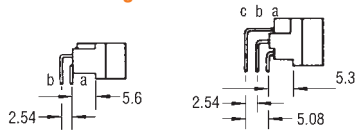
Pushing Performance

Contact rating	2A @ 20°C (isolated contact in isolation)	Insertion & extraction force	96 contacts ≈60N 64 contacts ≤60N 32 contacts ≤30N
Contact resistance	15mΩ max.	Housing Colour	Polyester, UL94V-0 Pebble grey (RAL7032)
Working voltage	250V dc/ac peak	Contacts	Brass, Gold over Nickel plating Tinned
Insulation resistance	≥10 ¹² Ω max.	Terminals	
Test voltage	1000V rms		
Temperature range	-65°C to +125°C		
Mating cycles	50, no gas test		

Pin spacing=2.54
PCB hole dia=1.0

209683

90° PCB Plugs



Pushing Performance

Mfrs. List No 09 02 132 7931 = 110-6718 09 03 164 7921 = 109-6831 09 03 196 7921 = 109-6832
09 02 164 7921 = 109-6830 09 03 132 7921 = 109-6838

209684

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+
2 Row 'B' Body						
32	a	110-6718				
64	a + b	109-6830				
3 Row 'C' Body						
32	a + c	109-6838				
64	a + c	109-6831				
96	a + b + c	109-6832				

PCB Sockets



Pushing Performance

Mfrs. List No 09 03 232 7825 = 109-6839 09 03 264 7825 = 109-6833

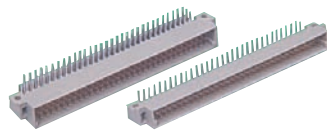
209685

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	500+	1K+
3 Row 'C' Body								
32	a + c	109-6839						
64	a + c	109-6833						

Gds A Series DIN41612 Class 2

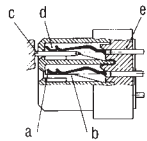


Pushing Performance



A range of connectors manufactured to the specifications of **DIN41612 Part 1, BS9525, VG and BT222** requirements.

Superior Design Features



Mating reliability

- a) Contact design prevents incorrect mating
- b) Moulded shoulder pre-loads contact springs
- c) Electro-polished male contact minimises insertion forces
- d) Sequential contact mating reducing insertion forces
- e) Force fit staking ensures firmly held contacts and prevents ingress

Dual Cantilever Single Sided Contact Providing

- Reduced insertion forces
- Added reliability
- Improved vibration resistance

Body material Glass filled polyester, UL94V-0
Mating force $\approx 90N$
Vibration resistance to VG95324 / DIN53480 / IEC112
Creepage resistance VG95324 / DIN53480 / IEC112 Polyester K225
Chemically resistant to Trichloroethylene, carbon tetrachloride, petrol, ethanol and menthanol
Temperature range -65°C to +125°C. Short term +220°C suitable for vapourphase soldering
Electrical specifications quoted on individual devices

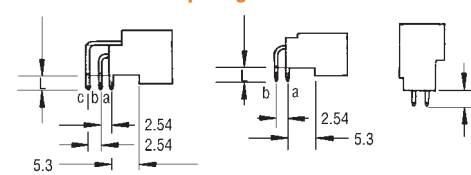
209687



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PCB and Wire Wrap Plug



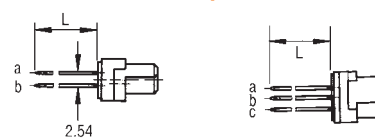
Pushing Performance

Pin spacing=2.54, PCB hole dia.=1.0
Contact rating 2A @ 20°C Contact material Copper Alloy, Gold plating
Working voltage 250 V ac/dc Mating cycles 400
Mfrs. List No 09 02 132 6931 = 114-2808 0902 164 6921 = 109-6900 0903 196 6922 = 109-7072
09 03 132 6921 = 109-6902 0903 164 6921 = 109-6903 09 03 164 6922 = 109-7073
09 03 132 6921 = 109-6902 0903 196 6921 = 109-6905

209688

No. of Ways	Rows Loaded	Pin Length 'L'	Order Code	1+	10+	50+	100+	250+
2 Row 'B' Body 90° PCB Pins								
32	a	3	114-2808					
64	a + b	3	109-6900					
3 Row 'C' Body 90° PCB Pins								
32	a + c	3	109-6902					
64	a + c	3	109-6903					
96	a + b + c	3	109-6905					
96	a+b+c	3	109-7072					
64	a+c	3	109-7073					

Solder and Wire Wrap Sockets



Pushing Performance

Pin spacing=2.54 (except 'C' body 32 way=5.08), PCB hole dia=1.0
Contact rating 2A @ 20°C Contact material Phosphor Bronze, Gold plating
Working voltage 250 V ac/dc Mating cycles 400
Mfrs. List No 0902 264 6824 = 109-6906 0903 296 6825 = 109-6910 0902 264 6821 = 110-6771
0902 264 6824 = 109-6906 09 02 264 6421 = 118-9273 0903 264 6821 = 109-6911
09 03 232 6825 = 109-6908 0903 264 6825 = 109-6909 09 03 264 6421 = 118-9271
0902 264 6825 = 109-6907

209689

No. of Ways	Rows Loaded	Pin Length 'L'	Order Code	1+	10+	50+	100+	250+
2 Row 'B' Body PCB Pins								
64	a + b	2.5	109-6906					
64	a + b	4	109-6907					
2 Row 'B' Body Wire Wrap Pins								
64	a + b	13	110-6771					
64	a + b	13	118-9273					
3 Row 'C' PCB Pins								
32	a + c	4	109-6908					
64	a + c	4	109-6909					
96	a + b + c	4	109-6910					
3 Row 'C' Wire Wrap Pins								
64	a + c	13	109-6911					
64	a + c	13	118-9271					

Coded PCB Plugs



Pushing Performance

- Avoids accidental mating of adjacent connectors
- Coding facility integral part of the connector
- Code keys are push fit into plug and socket connectors

Contact rating 2A @ 20°C Contact material Copper Alloy, Gold plating
Working voltage 250 V ac/dc Mating cycles 400
Mfrs. List No 09 02 664 6921 = 114-2810 09 03 664 6921 = 109-6951 09 02 000 9928 = 109-6952
09 03 696 6921 = 114-2812

209831

No. of Ways	Rows Loaded	Pin Length 'L'	Order Code	1+	10+	50+	100+	250+
64	a + b	3	114-2810					
3 Row 'C' Body 90° PCB Pins								
64	a + c	3	109-6951					
96	a + b + c	3	114-2812					
Price Per Rack								
Coding Keys				1+	10+	50+	100+	250+
60 per pack				109-6952				

PCB Plugs with Snap in Clips



Pin spacing=2.54, PCB hole dia.=1.0
For PCB thickness 1.6±0.2mm, PCB hole dia.=2.8+0.1mm for snap-in fixing

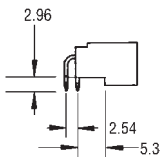
● Snap in clips tinned, for solderability

Contact rating	2A @ 20°C	Contact material	Copper Alloy, Gold plating
Working voltage	250 V ac/dc	Mating cycles	400

No. of Ways	Rows Loaded	Pin Length 'L'	Mfrs. List No.	Order Code	1+	10+	50+	100+
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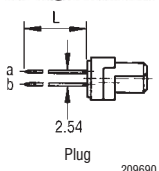
3 Row 'C' Body PCB Pins								
64	a + c	3	09 03 364 6921	109-6949				
96	a + b + c	3	0903 396 6921	109-6950				

Half Size 2 Row 'B' Body



Contact rating	2A @ 20°C	Contact material	Copper Alloy, Gold plating
Working voltage	250 V ac/dc	Mating cycles	400

Mfrs. List No	09 22 116 6931 = 114-2809
	09 22 132 6921 = 109-6912
	0922 232 6825 = 110-6772

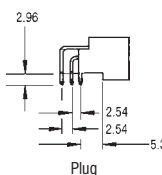
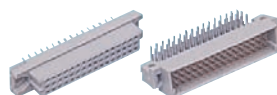


No. of Ways	Rows Loaded	Pin Length 'L'	Mfrs. List No.	Order Code	1+	10+	50+	100+	250+
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Plugs 90°PCB Solder Pin								
16	a	3	114-2809					
32	a + b	3	109-6912					

Socket								
32	a + b	4	110-6772					

Half Size 3 Row 'C' Body



Contact rating	2A @ 20°C	Contact material	Copper Alloy, Gold plating
Working voltage	250 V ac/dc	Mating cycles	400

Mfrs. List No	0923 132 6921 = 109-6913	Mfrs. List No	0923 148 6921 = 109-6914	Mfrs. List No	0923 248 6825 = 109-6915
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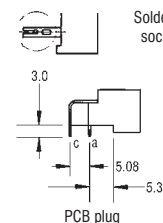
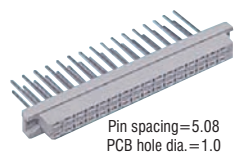
No. of Ways	Rows Loaded	Pin Length 'L'	Mfrs. List No.	Order Code	1+	10+	50+	100+
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90° PCB Solder Pin								
32	a + c	2.96	109-6913					
48	a + b + c	2.96	109-6914					

Straight PCB Solder Pin								
48	a + b + c	4	109-6915					

'D' Body Plug and Sockets

32 Way, Rows a + c Loaded

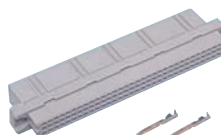


Contact rating	6A @ 20°C	Contact material	Copper Alloy, Gold plating
Working voltage	125 V ac/dc	Mating cycles	400

Mfrs. List No	09 04 132 6921 = 109-6917	09 04 232 6823 = 109-6872
		0904 232 6821 = 109-6880

Pin Length 'L'	Order Code	Price Each				
		1+	10+	50+	100+	250+
Plugs						
90° PCB pins	3	109-6917				
Socket						
PCB pins	4	110-6773				
Wire wrap pins	8	109-6872				
Wire wrap pins	20	109-6880				

Crimp Contact Socket Housings



Contact rating	B+C 2A @ 20°C	D+F 6A @ 20°C
Working voltage	B+C 250 V ac/dc	D+F 125V ac/dc
Housing	Polycarbonate (B, C and D) Polycarbonate (F)	
Contact material	Copper Alloy, Gold plating	
Mating cycles	400	



Housing & Contacts 'B'+ 'C'	(A) 0.14—0.5mm ₂	Crimp Tool 466-3688	'D'+ 'F' 'D'+ 'F'	0.14—0.5mm ₂	466-3688
Mfrs. List No	09 02 064 3214 = 110-6774	09 06 000 6432 = 109-6947	09 04 032 3213 = 109-6919	09 03 096 3214 = 109-6918	09 06 000 6431 = 109-6946
	0906 248 3201 = 109-7077	09 02 000 8474 = 109-6945			

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	250+
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Socket Housings							
'B'	64	a + b	110-6774				
'C'	96	a + b + c	109-6918				
'D'	32	a + c	109-6919				
F	48	z + b + d	109-7077				

Tooling for Crimp Contacts



Mfrs. List No.	Order Code	Price Each
Crimp Tool		
B+C and D+F	09 99 000 0620	466-3688
Crimp Set Including crimp insert and locator		
B+C	09 99 000 0621	466-3690
D+F 0.14 ² - 0.56mm ²	09 99 000 0622	466-3706
D+F 0.50 ² - 1.50mm ²	09 99 000 0623	466-3718
Contact Removal Tools		
B+C	0999 000 0101	316-477
D+F	0999 000 0087	316-489

Crimping Tool



- For individual contacts FC 1, FC 2 & FC 3
- Wire gauge - 0.14 - 1.5mm²



Mfrs. List No.	Order Code	1+	3+
09 99 000 0191	167-0787		

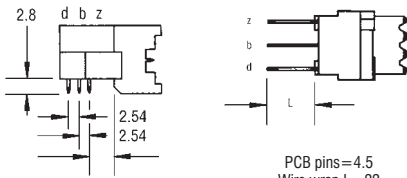
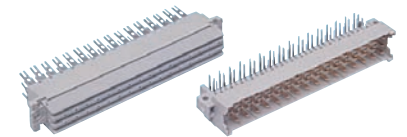
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'F' Body Plug and Sockets

48 Way, Rows d+b+z Loaded



PCB hole dia.=1.0

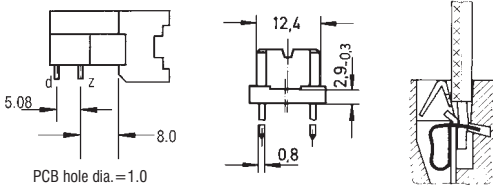
PCB pins=4.5
Wire wrap L=22
Solder lug=9.5

Contact rating	6A @ 20°C	Contact material	Copper, Gold plating
Working voltage	125 V ac/dc	Mating cycles	400
Mfrs List No	0906 248 6823 = 109-6920	0906 000 8471 = 109-7078	
	0906 148 6901 = 109-6873	0906 000 8472 = 109-7079	

	Price Each					
	Order Code	1+	10+	50+	100+	250+
Plugs						
90° PCB pins	109-6873					
Socket						
PCB pins	110-6775					
Solder lug	109-6920					
Wire wrap pins	109-6921					
Order Multiple=10						
Crimp Contacts		10+	50+	100+	500+	1K+
0.14mm-0.56mm	109-7078					
0.14mm-0.56mm	109-7079					

'H' Body Plugs and Sockets

15 Way, Rows d+z Loaded



Socket rear views



Horizontal faston terminals (6.3 x 0.8)	Cage clamp terminals	Vertical faston terminals (6.3 x 0.8)
Contact rating	500 V ac/dc	Polyester (0906 015 Series)
Working voltage	500 V ac/dc	Copper Alloy, Silver plating
Housing	Polyester (0906 115/215 Series)	
Mfrs. List No	0906 015 2931 = 109-6922	0906 215 2871 = 109-6879
	0906 115 2932 = 109-6871	0906 015 2813 = 109-6923
	0906 215 2811 = 109-6878	0906 215 2821 = 109-6948

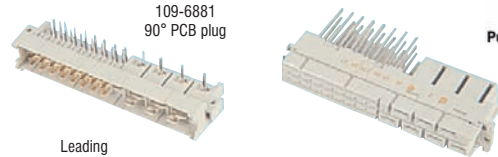
Note: The plugs have a leading earth pin in position Z32. 225-940 will not accept 'H' body backshell

209696

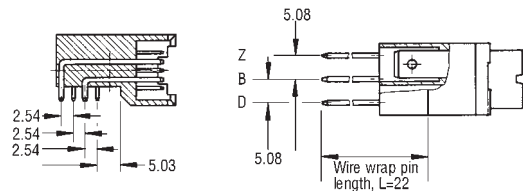
	Price Each					
	Order Code	1+	10+	50+	100+	250+
Plugs						
90° PCB pins 0906 115 2932	109-6871					
Faston terminals (horiz) 0906 015 2931	109-6922					
Sockets						
Faston terminals (horiz) 0906 215 2871	109-6879					
Faston terminals (vert) 0906 215 2811	109-6878					
Cage clamp terminals 0906 015 2813	109-6923					
PCB pins 0906 215 2821	109-6948					

'MH' Body Plugs and Socket

24 Way, Rows d+b+z Loaded and 7 Way, Rows d+z Loaded



Leading earth pin

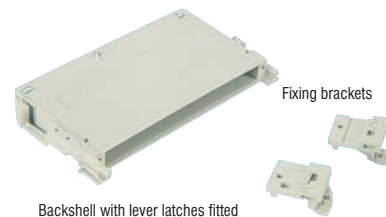


Contact rating	24 way 6A @ 20°C 7 way 15A @ 20°C	Housing	Polyester (0906 131/231 Series) Polyester (0906 031 Series)
Working voltage	24 way 125 V ac/dc 7 way 125 V ac/dc	Contact material	24 way Copper Alloy, Silver plating 7 way Copper Alloy, Silver plating
Mfrs. List No.	09 06 131 6922 = 109-6881 09 06 031 6921 = 109-6924		09 06 231 6821 = 109-6882 09 06 231 6822 = 109-7075

209697

	Price Each					
	Order Code	1+	10+	50+	100+	250+
Plugs						
90° Solder pins	109-6881					
90° PCB pins + straight fastons	109-6924					
Socket						
Straight wire wrap + straight fastons	109-6882					
Straight PCB pins + straight fastons	109-7075					

B, C, D, F, H and MH Accessories



Mfrs. List No	09 02 064 0501 = 110-6777	09 03 096 0501 = 109-6925	09 06 048 0504 = 109-6926
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	Price Each					
	Order Code	1+	10+	50+	100+	250+
Backshells						
'B' Body	110-6777					
'C'+ 'D' Body	109-6925					
'F'+ 'H'+ 'MH' Body	109-6926					

Mfrs. List No	0902 000 9902 = 109-6927	0902 000 9903 = 109-6929
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	Price Each					
	Order Code	1+	10+	50+	100+	250+
Lever Latches						
'B', 'C'+ 'D' Body left hand	109-6927					
'B', 'C'+ 'D' Body right hand	109-6929					

Mfrs. List No	09 02 000 9922 = 109-6932	09 06 000 9909 = 109-6933
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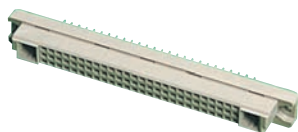
Gds A Series DIN41612 Class 2 - continued

B, C, D, F, H and MH Accessories - continued

209698

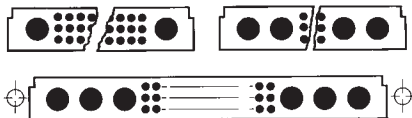
Style	Order Code	Price Each				
		1+	10+	50+	100+	250+
Fixing Brackets						
'B', 'C'+ 'D' left hand	109-6931					
'B', 'C'+ 'D' left hand	109-6932					
'F', 'H'+ 'MH' left hand	109-6933					

'M' Body Plugs and Sockets



- Connectors offering low frequency
- contacts and cavities for high power/coaxial format
- Power and coaxial contacts are ordered separately
- Class 2 plating

Contact configurations



209834

Style	Mfrs. List No.	Order Code	Price Each				
			1+	10+	50+	100+	250+
78+2Contacts							
90° plug	09 03 178 6901	109-6957					
PCB 4mm socket	09 03 278 6805	109-6958					
60+4Contacts							
90° plug	0903 160 6901	109-6959					
PCB 4mm socket	0903 260 6805	109-6960					
42+6Contacts							
90° plug	0903 142 6901	114-2814					
PCB 4mm socket	0903 242 6805	109-6961					
24+8Contacts							
90° plug	0903 124 6901	109-6962					
PCB 4mm socket	0903 224 6805	109-6963					

DIN41626 50Ω Jack



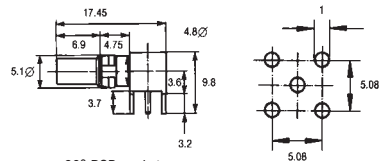
- Right angle through hole mounting
- Body material: Brass
- Contact material: Beryllium copper
- Contact plating: Gold



644113

Gender	Mfrs. List No.	Order Code	Price Each			
			1+	10+	25+	50+
Receptacle	73174-0040	190-9242				

Coaxial Contacts 50Ω



A range of power and RF contacts for DIN41612 'M' body.

	Contacts	Temperature range	-55°C to +125°C
Contact rating	1.5A dc	Mating cycles	100
Contact resistance	10mΩ	Material	Copper Alloy, Gold over Nickel plating
Working voltage	250V ac	Terminals	Tinned
		Housing material	White polyester

219835

Style	Order Code	Price Each				
		1+	25+	50+	100+	500+
Coaxial Contacts						
Straight crimp plug	119-6995					
90° crimp plug	119-6998					
90° PCB socket	119-6997					

Power Contacts



0903 000 6103 Plug
0903 000 6203 Socket
0903 000 6104 90° PCB Plug

239184

10 Per Pack

Mfrs List No.	Current Rating (A)	Order Code	Price Per Pack		
			1+	10+	50+
Plug Contact					
09 03 000 6101	10	120-7606			
09 03 000 6103	40	120-0498			
90° PCB Plug					
09 03 000 6104	10	120-0499			
Socket Contact					
09 03 000 6201	10	120-7609			
09 03 000 6202	20	120-7610			
09 03 000 6203	40	120-0500			

'Q' Body Plugs and Socket (Reverse 'B')

64 Way, Rows a+b Loaded



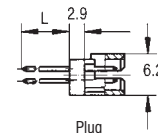
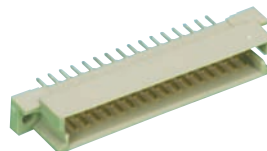
Contact rating 2A @ 20°C Contact material Copper Alloy, Gold plating
Working voltage 250 V ac/dc Mating cycles 400

Mfrs. List No 09 72 164 6907 = 110-6780
09 72 164 6903 = 110-6779 09 72 264 6801 = 109-7074

209700

Order Code	Price Each				
	1+	10+	50+	100+	250+
110-6779					
110-6780					
118-9276					
109-7074					

Half Size 2 Row 'Q' Body



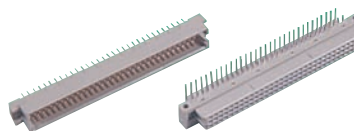
Contact rating 2A @ 20°C Contact material Copper Alloy, Hard Gold plating
Working voltage 250 V ac/dc Mating cycles 400

Mfrs. List No 09 27 132 6903 = 109-6935

209701

No. of ways	Rows Loaded	Pin Length 'L'	Price Each			
			1+	10+	50+	100+
Plugs						
Straight PCB Solder Pin						
32	a + b	4	109-6935			
Socket						
90° PCB Solder Pin						
32	a + b	3	131-3796			

'R' Body Plugs and Sockets (Reverse 'C')



Contact rating 2A @ 20°C Contact material Copper Alloy, Gold plating
Working voltage 250 V ac/dc Mating cycles 400

0973 164 6903 = 109-6936 09 73 164 6577 = 118-9276 0973 264 6801 = 109-6940
0973 196 6903 = 109-6937 09 73 196 6907 = 109-6939 0973 296 6801 = 109-6942
09 73 164 6907 = 109-6938

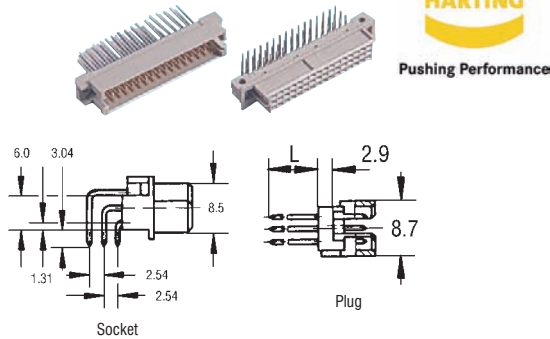
209702

No. of Ways	Rows Loaded	Pin Length 'L'	Order Code	Price Each				
				1+	10+	50+	100+	250+
64	a + c	4	109-6936					
96	a + b + c	4	109-6937					
64	a + c	13	109-6938					
96	a + b + c	13	109-6939					

Straight Solder Pins

64	a + c	13	118-9276					
96	a + b + c	13	118-9272					
64	a + c	3	109-6940					
96	a + b + c	3	109-6942					

Half Size 3 Row 'R' Body



Contact rating	2A (max)	Contact material	Copper Alloy, Gold plating
Working voltage	250 V ac/dc	Mating cycles	400
Mfrs. List No	09 28 148 6903 = 109-6944	09 28 148 6907 = 110-6778	
	09 28 248 6801 = 109-6943	09 28 132 6903 = 110-6781	

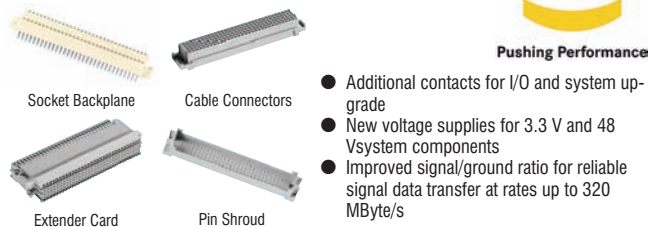
209703

No. of Ways	Rows Loaded	Pin Length 'L'	Order Code	Price Each				
				1+	10+	50+	100+	250+
Socket								
90° PCB Solder Pin								
48	a + b + c	3	109-6943					
Plugs								
Straight PCB Solder Pin								
32	a + c	4	110-6781					
48	a + b + c	4	109-6944					
Straight Wire Wrap Pin								
48	a + b + c	13	110-6778					

DIN41612 Har-bus 64

har-bus® 64 Connectors

2.54mm Pitch



- Additional contacts for I/O and system upgrade
- New voltage supplies for 3.3 V and 48 V system components
- Improved signal/ground ratio for reliable signal data transfer at rates up to 320 MByte/s

- Live Insertion for replacing processor or memory cards without closing down the system
- User defined pins for test and maintenance bus lines
- 4 / 5 rows available

Specifications:-			
Current Rating	1A	Moulding Material	LCP
Contact Material	Copper Alloy	Contact Plating	Gold over Nickel
Insulation Resistance	10 ¹⁰ Ω	Contact Resistance	a, b, c - 20mΩ z, d - 30mΩ
Flammability Rating	UL94V-0	Operating Temp.	-55°C to 125°C

528756

FREE GLOBAL LEGISLATION SUPPORT

RoHS, REACH, WEEE, ErP, Batteries Directive - latest updates, free white papers and live online Q&A at element14.com/legislation

No. of Ways	Rows Loaded	Termination Length	Mfrs. List No.	Order Code	Price Each		
					1+	5+	10+
Socket Backplanes, Class 2, 5 Row, without Flange							
160	z + a + b + c + d	5mm	02 02 160 2202	168-4839			
160	z + a + b + c + d	17mm	02 02 160 2302	168-4842			

No. of Ways	Rows Loaded	Position	Mfrs. List No.	Order Code	Price Each		
					1+	5+	10+
Cable Connectors, 5 Row							
160	a + b + c + d + e	32, 32 to 2, 1	02 05 000 0003	168-4844			
160	z + a + b + c + d	32, 32 to 2, 1	02 05 000 0004	168-4845			

No. of Ways	Rows Loaded	Mfrs. List No.	Order Code	Price Each		
				1+	5+	10+
Extender Card, Class 1, 5 Row						
160	z + a + b + c + d	02 07 160 1101	168-4847			

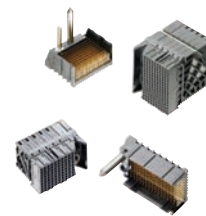
High Speed Differential

Impact™ Backplane

1.9mm Pitch



NEW



The IMPACT backplane connector and cable system from TE pushes the speed and density envelope to meet the growing demands of next-generation telecommunication and data networking equipment

- Contact material: High performance copper alloy
- Contact plating: Gold
- Flammability rating: UL 94V-0
- Current rating per contact: 0.75 A
- Durability: 200 cycles
- Operating voltage: 30V AC RMS / DC

643731

No. of Ways	Guide	Wall Type	Mfrs. List No.	Order Code	Price Each			
					1+	5+	10+	50+
Receptacle								
90	Left	-	2007703-1	190-7415				
90	Right	-	2007704-1	190-7416				
90	Unguided	-	2007705-1	190-7417				
144	Left	-	2007709-1	190-7418				
144	Right	-	2007710-1	190-7419				
144	Unguided	-	2007711-1	190-7420				
120	Left	-	2007715-1	190-7421				
120	Right	-	2007716-1	190-7422				
120	Unguided	-	2007717-1	190-7423				
192	Left	-	2007721-1	190-7424				
192	Right	-	2007722-1	190-7425				
192	Unguided	-	2007723-1	190-7427				
Headers								
90	Left Guide	Open	2007777-1	190-7428				
90	Left Guide	Right	2007779-1	190-7429				
90	Right Guide	Open	2007781-1	190-7430				
90	Right Guide	Left	2007783-1	190-7431				
90	Unguided	Open	2007788-1	190-7432				
90	Unguided	Left	2007789-1	190-7433				
90	Unguided	Dual	2007790-1	190-7434				
90	Unguided	Right	2007791-1	190-7435				
144	Left Guide	Open	2007793-1	190-7436				
144	Left Guide	Right	2007795-1	190-7437				
144	Right Guide	Open	2007797-1	190-7439				
144	Right Guide	Left	2007799-1	190-7441				
144	Unguided	Open	2007804-1	190-7442				
144	Unguided	Left	2007805-1	190-7443				
144	Unguided	Dual	2007806-1	190-7444				
144	Unguided	Right	2007807-1	190-7445				
120	Left Guide	Open	2007809-1	190-7446				
120	Left Guide	Right	2007811-1	190-7447				
120	Right Guide	Open	2007813-1	190-7448				
120	Right Guide	Left	2007815-1	190-7449				
120	Unguided	Open	2007820-1	190-7450				
120	Unguided	Left	2007821-1	190-7452				
120	Unguided	Dual	2007822-1	190-7453				
120	Unguided	Right	2007823-1	190-7454				
192	Left Guide	Open	2007825-1	190-7455				
192	Left Guide	Right	2007827-1	190-7456				
192	Right Guide	Open	2007829-1	190-7457				
192	Right Guide	Left	2007831-1	190-7458				
192	Unguided	Open	2007836-1	190-7459				
192	Unguided	Left	2007837-1	190-7460				
192	Unguided	Dual	2007838-1	190-7461				
192	Unguided	Right	2007839-1	190-7462				

High Speed Differential - continued

Fortis Zd Backplane Connector Module



NEW



- Housing material: Black
- Shield material: Copper Alloy
- Shell material: Aluminium
- Contact material: Copper Alloy
- Contact plating: Gold
- Durability: 500 Cycles

634629

No. of Ways	Module Type	Mftrs. List No.	Order Code	1+	5+	10+	25+	Price Each
Header - Right Angle								
90	Left	2000890-1	187-7642	▲				
90	Centre	2000891-1	187-7643	▲				
180	Centre	2000903-1	187-7644	▲				
90	Right	2000892-1	187-7645	▲				
90	Full	2102155-1	187-7646					
180	Full	2102159-1	187-7647					
Receptacle								
90	End	2000895-1	187-7648	●				
90	Centre	2000896-1	187-7649	●				
180	Centre	2000905-1	187-7650	●				
90	Full	2102157-1	187-7651	●				
180	Full	2102161-1	187-7652	●				
Guides								
Guide Pin		2000676-2	187-7654	●				
Right Angle Guide Module		2000713-1	187-7655	●				
Guide Module Housing		2-2000677-0	187-7656	●				

Mezalkok Stacking Connectors



NEW



Rugged surface mount mezzanine connector incorporating "super-redundant" Mini-Box contact system for an ultra reliable separable interface.

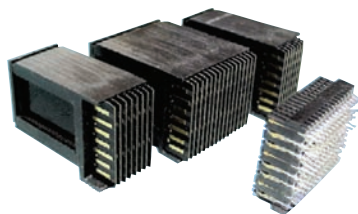
- Mounting type: Surface mount
- Pitch: 1.27 mm
- Contact material: Beryllium Copper

- Contact plating: Gold

630848

No. of Ways	Stack Height	Mftrs. List No.	Order Code	1+	5+	10+	25+	Price Each
Header								
60		2102079-1	187-7638	●				
114		2102060-1	187-7634	●				
Receptacle								
60	10 mm	2102080-1	187-7639	●				
60	12 mm	2102080-3	187-7640	●				
114	10 mm	2102061-1	187-7635	●				
114	12 mm	2102061-3	187-7636	●				
114	18 mm	2102061-9	187-7637	●				

Multigig RT Interconnect



Multigig RT is a pinless backplane interconnect family comprised of modular components which can be used in a variety of combinations. The connectors in this flexible platform can be combined to provide the density, data throughput and signal integrity required for most applications within computer, comms., military, medical and industrial control industries.

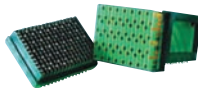
- Backplane connector system with "pinless" interface
- Press fit
- 20.3 card pitch
- Optimised footprints for signal integrity and ease of board design
- Superior crosstalk performance
- Single ended and differential
- MultiGig RT1 - 141 signals/inch, data rates up to 3.125 Gb/s
- MultiGig RT2 - 113 signals/inch, data rates of 3.125 Gb/s to 6.4 Gb/s+ (10 Gb/s Tested)

List No.	Spec.	Style	Position	Mounting	Order Code
1410140-1	Vita 41/46	Backplane	Centre Module	Vertical	132-9926
1410142-1	Vita 41/46	Backplane	Right Hand Module	Vertical	132-9927
1410186-1	Vita 46	Backplane	Left End Half Module	Vertical	132-9928
1410137-1	Vita 41	Backplane	Centre Module	Right Angle	132-9929
1410147-1	Vita 41	Backplane	Centre Module	Right Angle	132-9930
1410187-3	Vita 46	Backplane	Centre Module	Right Angle	132-9934
1410190-3	Vita 46	Backplane	Centre Module	Right Angle	132-9936
1410189-3	Vita 46	Backplane	Left End Half Module	Right Angle	132-9937

460061

No. of Spec.	Mftrs. List No.	Order Code	1+	5+	10+	Price Each
Backplane Connector						
vita 41/46	1410140-1	132-9926	●			
vita 41/46	1410142-1	132-9927	●			
vita 46	1410186-1	132-9928	●			
Daughter Card Connector						
Vita 41	1410137-1	132-9929	●			
Vita 46	1410187-3	132-9934	●			
Vita 46	1410190-3	132-9936	●			
Vita 46	1410189-3	132-9937	●			

MULTIGIG RT Connectors for VITA 46 (VPX) Standards



TE's MULTIGIG RT product is a backplane interconnect family that offers levels of flexibility and customisation. This printed circuit based, pinless, interconnect family is comprised of modular components which can be used in a variety of combinations.

Key Features:-

- Differential, Single-ended and Power
- Customisable impedance matched printed circuit wafer interface
- Backplane connector system with pinless interface
- Superior crosstalk performance
- Optimised footprints for signal integrity & ease of board design
- Utilises a 0.56mm dia. via for backplane connector for lower cost board fabrication
- Three levels of signal contact sequencing
- Modular connector system

Specifications:-

Contact Material	Phosphor Bronze	Contact Plating	Gold
Housing Material	LCP	Flammability Rating	UL94V-0
Card Slot Pitch	20.3mm	Data Rate	10 Gb/s performance
Pitch	1.8mm	Pitch Row	1.35mm (Daughtercard)
		Voltage Rating	1.8mm (Backplane)

601642

No. of Ways	No. of Rows x Columns	Mftrs. List No.	Order Code	1+	5+	10+	Price Each
Daughtercard, R/A Plug, Right End Module, Differential Termination							
112	7 x 16	1410188-3	177-4229	●			
Daughtercard, R/A Plug, Centre Module, Differential Termination							
112	7 x 16	1410975-3	177-4240	●			
Daughtercard, R/A Plug, Half Left End Module, Solder Tail Termination							
56	7 x 8	1410971-3	177-4238	●			
Daughtercard, R/A Plug, Half Left End Module, Single Ended Termination							
56	7 x 8	1410972-3	177-4239	●			
Accessories							
Description	Mftrs. List No.	Order Code	1+	5+	10+	Price Each	
Guide Pin for use with 9mm wide Guide Module							
2.6mm Standoff Height	1-1469491-2	177-4216	●				
4.2mm Standoff Height	1-1469491-3	177-4217	●				
Guide Module, 9mm, for use with VITA 46 3U & 6U Daughtercard							
0° Key Orientation	1-1469492-1	177-4221	●				
90° Key Orientation	1-1469492-3	177-4223	●				
With out Key Orientation	1-1469492-9	177-4226	●				
Cap Drew, for use with VITA 46 3U & 6U 9mm Daughtercard Guide Module							
3.5mm Length	1410946-1	177-4231	●				

MULTIGIG RT Power Modules

NEW



4 Way Header - 1877657



Female Guide Module - 1877659



Male Guide Module - 1877666

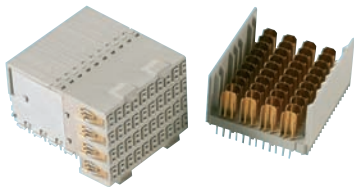
- No of contacts: 4
- Pitch spacing: 2mm
- Current rating: 20A
- Contact material: Phosphor bronze
- Contact material: Gold

Note: Sequence reads left to right along mating face
L (long) = 0.541mm, M (medium) = 0.482mm, S (short) = 0.423mm

635440

Sequence	Mftrs.		Price Each			
	List No.	Order Code	1+	5+	10+	25+
Headers						
L,L,L,L	1-1410271-1	187-7657				
S,S,S,S	1-1410271-8	187-7658				
M,S,S,M	2-1410271-0	187-7664				
Receptacles						
Thread Length	1410270-2	187-7660				
Guide Post						
6mm	1469269-2	187-7661				
8mm	1469269-4	187-7662				
10mm	1469269-6	187-7663				
Keying						
ATCA Guide Module - Male						
2,2	2-1469372-2	187-7666				
4,2	4-1469372-2	187-7670				
5,5	5-1469372-5	187-7672				
6,8	6-1469372-8	187-7674				
7,3	7-1469372-3	187-7676				
ATCA Guide Module - Female - 12mm Pitch PCB Mounts						
2,2	2-1469373-2	187-7667				
4,2	4-1469373-2	187-7671				
5,5	5-1469373-5	187-7673				
6,8	6-1469373-8	187-7675				
7,3	7-1469373-3	187-7678				
ATCA Guide Module - Female - 6mm Pitch PCB Mounts						
1,1	1-1469268-1	187-7659				
3,7	3-1469268-7	187-7668				
4,2	4-1469268-2	187-7669				
UNKEYED	9-1469268-9	187-7679				

Z-Pack HM-Zd - 4 Pair



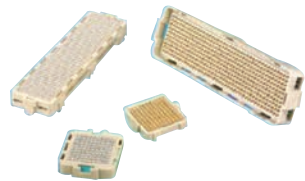
Z-Pack HM-Zd is a high speed, differential connector system, which is compatible with the Z-PACK 2mm HM connector line. Z-PACK HM-Zd provides Z-PACK 2mm HM users with a migration path for serial switching applications from 3.125Gbps to 5.0Gbps.

- Z-PACK HM-Zd is an extension of the Z-PACK 2mm HM product line. Designed specifically for high speed differential applications
- A modular connector system with a standard module size of 25mm. Contact pitch is 1.5mm within a pair and 3.0mm pair to pair within a column; column to column pitch is 2.5mm
- 4 signal contact pairs per column (40 pairs per 25mm) compatible with 8 row Z-PACK 2mm HM
- Available in vertical press fit pin headers and right angle press fit receptacles
- Optimized footprint for improved electrical performance and ease of routing channels on both daughter card and backplane

414976

No. of Pairs	Mftrs. List No.	Order Code	1+	5+	10+
Header - Vertical					
40	6469002-1	963-6730			
Receptacle - Right Angle					
40	6469001-1	963-6714			
90° Keyed Guide Modules, 2 Pin					
Male	1-1469372-1	122-6256			
Female	1-1469373-1	122-6257			

MEG-array® Connector System



The MEG-Array® connector is designed to meet the needs of 10Gb/s applications requiring up to 528 signal pins per connector. The combination of multiple stack heights (4mm to 14mm) and multiple sizes (81 signals to 528 signals) allows for optimal design flexibility while yielding less than 1% cross-talk performance when configured differentially.

Features & Benefits:-

- Ball Grid Array (BGA) termination for process friendly attachment
- 1.27 x 1.27mm BGA interface pitch optimizes routing and electrical performance
- Stack Heights available from 4mm to 14mm (2mm increments)
- Connector sizes of 100 signals to 400 signals providing 80 usable signals per linear cm (205 signals per linear inch) allow for optimization of board space and signal requirements
- 10 Gb/s differential pair performance at less than 1% cross-talk meets the needs of high speed mezzanine applications

- Demonstrated solder joint reliability of greater than 22 years life (per IPC-SM-785) is unmatched for a BGA mezzanine connector
- Polarized design assures proper mating of the connector
- RoHS Compliant (Lead-Free)

Housing Material	Contact Material	Contact Plating	Voltage Rating	Current Rating	Operating Temperature
LCP	Copper Alloy		200V	0.45A	-40°C to 85°C

NB- The contact plating is different for p/n 162-3934. It is 50 μin. Gold and meets Telcordia GR-1217-CORE and NPS25298-2 specifications for utilisation in telecom applications.

522142

Mftrs. List No.	Stack Height	No. of Ways	Order Code	1+	25+	50+
Plugs						
84512-102LF	0mm	100	162-3942			
84516-102LF	0mm	200	162-3924			
84500-102LF	0mm	300	162-3925			
84578-102LF	6mm	300	162-3926			
84740-102LF	0mm	400	162-3927			
84520-102LF	6mm	400	162-3929			
Receptacles						
84513-101LF	4mm	100	162-3944			
84517-101LF	4mm	200	162-3931			
55724-101LF	6mm	200	162-3932			
84535-101LF	8mm	200	162-3933			
84535-201LF	8mm	200	162-3934			
84501-101LF	4mm	300	162-3935			
84502-101LF	5.5mm	300	162-3936			
84553-101LF	8mm	300	162-3937			
74221-101LF	4mm	400	162-3938			
74388-101LF	6mm	400	162-3939			
74390-101LF	8mm	400	162-3940			

2.0mm Backpanel Systems

Millipacs 1 2.0mm System

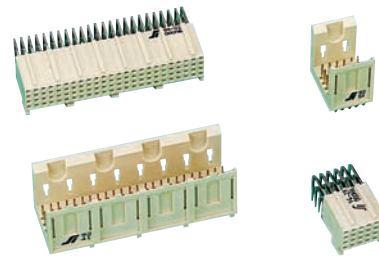


- Board to board modular connector on a 2 x 2mm grid
- Developed for design requirements where high speed and pin density are required
- Conforms to requirements of IEC917 and meets IEEE Futurebus standard

Contact rating	1.5A(signal) 3A(power)	Housing Contacts, female male	High temperature GF Thermoplastic UL94V-0 Phosphor Bronze
Temperature range	-55°C to +125°C	Plating	Gold over Nickel

209922

PCB Plugs and Sockets



PCB hole sizes:
Male = 0.7mm ±0.1
Female = 0.6mm ±0.1

- Sockets have push fit retention pegs

209933

No. of Ways	Mftrs. List No.	Order Code	1+	50+	100+	250+
Straight PCB Pins						
96 (4 x 24)	88953-101LF	121-1677				
90° PCB Sockets						
24 (4 x 6)	HM1F41TAP000H6LF	109-8029				
96 (4 x 24)	HM1F43TAP000H6LF	109-8030				
192 (4x48)	HM1F44TAP000H6LF	109-8031				

Power/Signal



- Power modules have a current rating of 3A
- The two modules have 4 rows of 2 pins
- Female has push fit retention peg

209935

No. of Ways	Mftrs. List No.	Order Code	1+	50+	100+	250+
90° PCB Sockets						
8	89039-102LF	109-7973				

2.0mm Backpanel Systems - continued

Har. bus HM 2.0mm

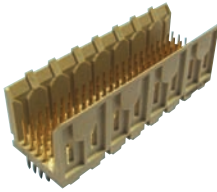


- Specified for Compact PCI/VME bus
- Complies with **IEC 61076-4-101**
- Pre-leading contacts
- Pre-installed upper shields on the sockets
- Specific colour code keys for board insertion identification
- 32/64 Bit Transfer Rate

Test Voltage	750Vrms	Housing	Thermoplastic Resin glass-fibre filled UL94V-0
Contact rating	1.5A dc(signal)	Contacts	Copper AlloyGold plated
Contact resistance	20mohmΩ max	Press in force	100N(pin max)
Temperature range	-55°C to +125°C	Retention force	20N(pin max)
Mating cycles	250		

227394

Z-PACK 2mm FB (Futurebus+)



- High density connections: four-row and five-row, 2mm x 2mm circuit grid
 - Modular design, end to end stackable
 - **UL** recognised & **CSA** approved
 - Press-Fit termination
- Current Rating 1A
Housing High Temperature Liquid crystal polymer
Contacts Phosphor Bronze, Gold plated

451130

No. of Ways	Mfrs. List No.	Order Code	Price Each		
			1+	50+	100+
Four Row - Plug - Vertical					
24	5536514-1	128-4305			
48	5536504-2	128-4306			
192	5536504-4	128-4309			
Four Row - Socket - Right-Angle					
24	5536511-1	128-4310			
192	5536511-4	128-4313			

Z-Pack 2.0mm Hard Metric



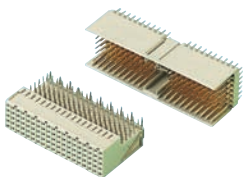
- Meets needs of telecommunications, computer and instrumentation applications
- Comply with **IEC917** and **IEC 1076-4-101**
- 5 row versions.
- Type A have 110 signal pins, center guiding and keying facility
- Type B have 125 signal pins Type C have 55 signal pins and guiding features
- High density system
- All lines impedance matched to 50Ω single ended and 100Ω differential pair
- Press fit

Signal pin rating, all contracts loaded	1.5 @ 70°C
Normal resistance	≥13.5mΩmohm
Housing	Grey, Glass Filled Polyester UL94V-0
Contacts	Phosphor Bronze plated Gold over Nickel over NickelGold over Nickel

210014

No. of Ways	Mfrs. Type	List No.	Order Code	Price Each			
				1+	100+	250+	500+
Male Straight							
110	A	5100143-1	109-8655				
55	C	5100159-1	109-8657				
Female 90°							
110	A	5100147-1	109-8658				
55	C	5100161-1	109-8660				

Compact PCI Backplane



- C-PCI Components for Backplane**
- | | |
|----------------------------------|--------------------------|
| 22 column type A header hot swap | Mfrs. List No. 5352332-1 |
| 22 column type B header | 5188835-1 |
| 22 column type A header | 5188834-1 |
- System slot (J) and peripheral slot(O) adapters**
- | | |
|--------------------------------------|-----------|
| 22 column type A shielded receptacle | 5352068-1 |
| 22 column type B shielded receptacle | 5352152-1 |
| 19 column type B shielded receptacle | 5352171-1 |

219864

- Meets needs of telecommunications, computer and instrumentation applications
- Comply with **IEC917** and **IEC1076-4-101**
- Press fit
- C-PCI can use 32 bit or 64 bits on 3U cards and 6U cards using standard and special length connectors

Glass Filled PolyesterUL94V-0
Phosphor BronzeGold over Nickel

Mfrs. List No.	Order Code	Price Each		
		1+	100+	250+
5352332-1	109-8661			
5188835-1	109-8662			
5188834-1	109-8665			
5352068-1	109-8666			
5352152-1	109-8667			
5352171-1	109-8668			

No. of Ways	Type	Mfrs. List No.	Order Code	Price Each			
				1+	10+	100+	250+
Straight Plug							
110	B	1701 110 2201	110-6794				
110	B	1704 110 2201	110-6796				
90° Sockets							
110	With upper shield	17 21 110 2101	110-6799				
110	B	17 21 110 2102	110-6800				
95	With upper shield	1725 095 2101	110-6802				
95	B	1725 095 2102	110-6803				
110	With upper shield	17 24 110 2101	110-6804				
110	B	17 24 110 2102	110-6805				
125	C	17 22 125 2102	110-6801				
55	47 Monobloc	1723 055 2101	110-6807				
220	With upper shield	1726 220 2102	110-6809				

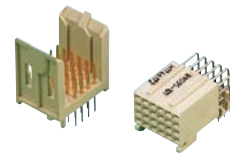
Metral

- Modular high density, 2mm interconnect system
- Flexibility of design
- Ideal for Futurebus+ and SCI (IEEE P1596) users
- Stackable end to end, without loss of poles
- Solder to board and press fit versions
- 4 and 5 row versions

Current	1A(signal) 3A(power)	Contacts	Phosphor Bronze Gold(in contact over)
Housing	Liquid Crystal Polymer(LCP),	Withstand voltage	1kV rms (@sea level)

209968

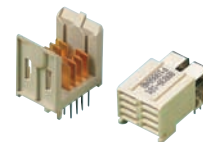
Solder to Board Plugs and Sockets, 4 Row Class II



209967

No. of Ways	Tail Length (mm)	Mfrs. List No.	Order Code	Price Each			
				1+	10+	50+	100+
Straight PCB Pins							
24 (4 x 6)	4.25	88951-101LF	109-7998				
24 (4 x 6)	3.45	88951-131LF	109-7999				
96 (4 x 24)	3.45	88953-131LF	109-8000				
192 (4x48)	3.45	88954-131LF	109-8001				
90° PCB Sockets							
24	3.53	89035-112LF	163-6594				
96 (4 x 24)	2.73	89037-101LF	109-8004				

Power Modules, 4 Row



209966

No. of Ways	Tail Length (mm)	Mfrs. List No.	Order Code	Price Each			
				1+	10+	50+	100+
Straight PCB Pins							
8(4 x 2)	4.25	88960-101LF	109-8008				

Press Fit Plugs, 4 Row Class II



227531

No. of Ways	Tail		Mfrs. List No.	Order Code	Price Each			
	Length (mm)	Mfrs.			1+	10+	50+	100+
24 (4 x 6)	4.3	70232-111LF	109-8009					

Press Fit Plugs and Solder to Board Sockets 5 Row



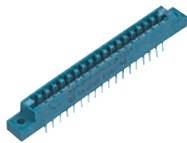
209963

No. of Ways	Tail		Mfrs. List No.	Order Code	Price Each			
	Length (mm)	Mfrs.			1+	10+	50+	100+
30 (5 x 6)	3.53	85863-112LF	109-8015					

90° PCB Sockets - Solder to Board

Card Edge Connectors

0.156" Pitch Single Sided

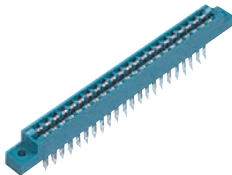


- An 18 way single sided edge connector with 0.156" gold over nickel plated contacts
- Connector has PCB pins (1.23 x 0.33 x 5.41mm) with 5.08mm row spacing
- Mounting holes 3.25mm dia.
- Current rating 5A.

209711

No. of Ways	Order Code	Price Each					
		1+	10+	50+	100+	250+	500+
18	145-149						

0.156" Pitch Double Sided

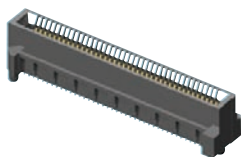


- A 22 way double sided edge connector with 0.156" gold inlay contacts suitable for use with video games and PCB's.
- connector has solder eyelet terminals with a 3.55mm row spacing
- Mounting holes 3.25mm diameter.
- Current rating 5A.

209712

No. of Ways	Order Code	Price Each				
		1+	10+	50+	100+	250+
22 + 22	145-148					

0.8mm Hi-Speed Sockets HSEC8 series



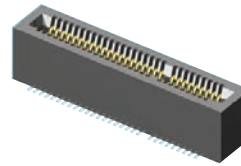
- Low profile - 7.8mm
- Alignment pins
- Card thickness - 1.6mm
- Double row
- Pitch - 0.8mm

LCP Beryllium Copper Gold 3.1A -55°C to 125°C

527334

Mfrs. List No.	No. of Ways		Order Code	Price Each				
	Ways	Order Code		1+	10+	50+	100+	250+
HSEC8-110-01-SM-DV-A	20	166-7810						
HSEC8-120-01-SM-DV-A	40	166-7811						
HSEC8-130-01-SM-DV-A	60	166-7812						
HSEC8-140-01-SM-DV-A	80	166-7813						

Mini Edge Card Sockets MEC1 series



- Body is polarized
- Alignment pins
- Card thickness - 1.60mm
- Double row
- Pitch - 1.0mm
- Mates with 1.60mm card

Insulator Material LCP Contact Material Beryllium Copper Contact Plating Gold Current Rating 2A Operating Temperature -55°C to 125°C

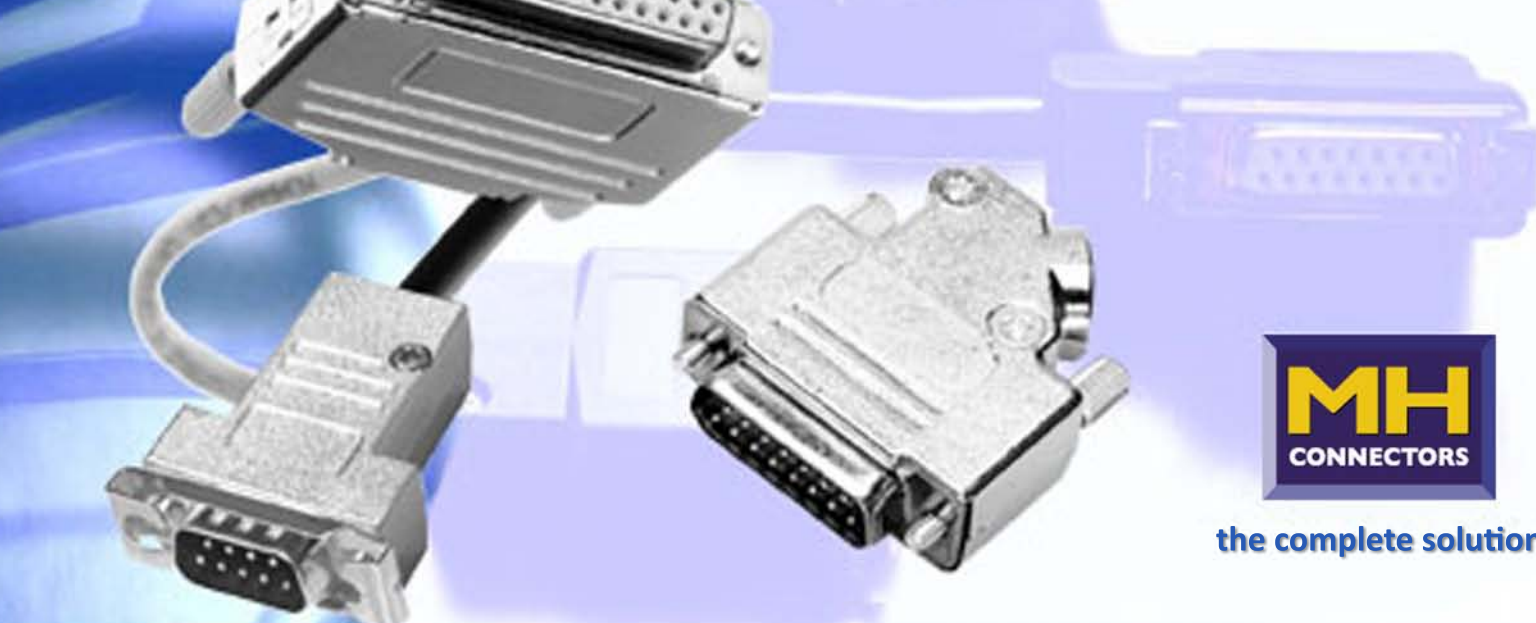
527342

Mfrs. List No.	No. of Ways		Order Code	Price Each				
	Ways	Order Code		1+	10+	50+	100+	250+
MEC1-105-02-S-D-A	10	166-7837						
MEC1-108-02-S-D-A	16	166-7838						
MEC1-120-02-S-D-A	40	166-7839						
MEC1-130-02-S-D-A	60	166-7840						
MEC1-140-02-S-D-A	80	166-7842						
MEC1-160-02-S-D-A	120	166-7844						
MEC1-170-02-S-D-A	140	166-7845						

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