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**9**

**Connectors - PCB**

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<p><b>SMT 0.6mm</b></p>  <p>See Website</p>	<p><b>1.5mm Pitch</b></p>  <p>SEE PAGE 399</p>	<p><b>2mm Datamate</b></p>  <p>SEE PAGE 403</p>	<p><b>"Clincher"</b></p>  <p>SEE PAGE 417</p>	<p><b>3.96mm Pitch</b></p>  <p>SEE PAGE 421</p>
<p><b>SMT 0.8mm</b></p>  <p>SEE PAGE 392</p>	<p><b>2mm Pitch Micro SPOX</b></p>  <p>SEE PAGE 399</p>	<p><b>2mm PC/104 Cnctrs</b></p>  <p>SEE PAGE 404</p>	<p><b>PCB Shorting Links</b></p>  <p>SEE PAGE 418</p>	<p><b>5.08mm Pitch KK</b></p>  <p>SEE PAGE 422</p>
<p><b>SMT 1.00mm</b></p>  <p>SEE PAGE 394</p>	<p><b>2mm Pitch Milli-Grid</b></p>  <p>SEE PAGE 400</p>	<p><b>2.5mm Pitch KK</b></p>  <p>SEE PAGE 405</p>	<p><b>PCB Jack Sockets</b></p>  <p>SEE PAGE 418</p>	<p><b>PCB Terminal Blocks</b></p>  <p>SEE PAGE 422</p>
<p><b>1.25mm Pitch</b></p>  <p>SEE PAGE 394</p>	<p><b>2mm Minitek System</b></p>  <p>SEE PAGE 401</p>	<p><b>2.54mm Pitch</b></p>  <p>SEE PAGE 406</p>	<p><b>2.54mm Jumper System</b></p>  <p>SEE PAGE 415</p>	<p><b>Plug In Term. Blocks</b></p>  <p>SEE PAGE 426</p>
<p><b>1.27mm X 1.27mm Grid</b></p>  <p>See Website</p>	<p><b>2mm Pitch</b></p>  <p>SEE PAGE 401</p>	<p><b>2.54mm PC/104</b></p>  <p>SEE PAGE 415</p>	<p><b>2.54mm Pitch KK</b></p>  <p>SEE PAGE 419</p>	

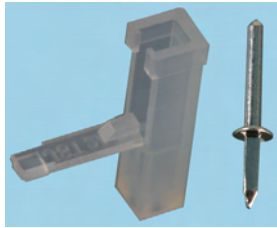


- FREE to all account holders
- Notification of obsolete, end of line and end of stock items
- Replacement or upgrade recommendations

**Advanced warning of obsolete components**

**Single Pin**

**Single Pin Connectors**  
1mm Diameter



Small single-circuit connection system which requires only minimal space on high-density printed circuit boards. The crimped lead connects to 1mm diameter pins. The 300mm black lead has a SMF-01T-1.0 female connector on one end and a 3mm stripped/tinned finish on the other.

Current Rating	5A ac/dc	Contact Resistance	1000MR
Withstand Voltage	500V ac/1min.	Insulation Resistance	1.6mm
Lead	0.5mm <sup>2</sup> (AWG 20), 300mm long	PC board Thickness (pin)	
Material - Housing	Nylon 66,UL 94V-2, Natural (White)		
Material - Pin	, Tin / copper alloy plated		
Material - Contact	Brass, tin plated		
Temperature Range	-25°C to 85°C		

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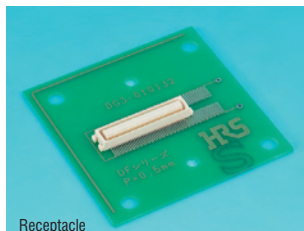
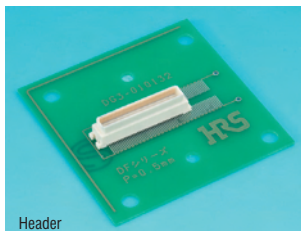
Description	Mfrs. List No.	Order Code	Price Each			
			10+	100+	250+	500+
Crimped Lead SMF-20LV300-D		<b>735-6463</b>	1.89	1.69	1.50	1.33
1mm Pin	RT-01T-1.0B	<b>735-6471</b>	0.32	0.29	0.25	0.22
1mm Pin	RT-01T-1.0B(LF)	<b>949-2208</b>	0.32	0.29	0.25	0.22
Housing	1P-SMF	<b>735-6480</b>	0.34	0.30	0.27	0.24

**0.5mm Pitch (SMT)**

**DF17 PCB Stacking Connector System**



0.5mm Pitch



The DF17 range of connectors have been developed to meet the demands of portable and hand held equipment.

- 0.5mm pitch
- Designed to withstand drop impact
- Dual beam bellow contacts maintain continuity under shock and vibration

Current Rating	0.3A	Insulation Mat	Nylon Resin
Voltage rating AC	50V RMS	Contact Material	Phos Bronze
Contact Resistance	≤50mΩ	Contact Plating	Gold
Insulation Resistance	≥500MΩ	Temperature Range	-35°C to +85°C

Mfrs. List No.	DF17C(3.0)-20DS-0.5V(50)=390-8197	DF17C(2.0)-20DP-0.5V(50)=390-8252
	DF17C(3.0)-40DS-0.5V(50)=390-8203	DF17C(2.0)-40DP-0.5V(50)=390-8264
	DF17C(3.0)-80DS-0.5V(50)=390-8215	DF17C(2.0)-80DP-0.5V(50)=390-8276
	DF17C(4.0)-40DS-0.5V(50)=390-8239	DF17C(4.0)-40DP-0.5V(50)=390-8290
	DF17C(4.0)-80DS-0.5V(50)=390-8240	DF17C(4.0)-80DP-0.5V(50)=390-8306
Mfrs. List No.	DF17C(3.0)-20DS-0.5V(57)=107-7735	DF17C(2.0)-20DP-0.5V(57)=107-7742
	DF17C(3.0)-40DS-0.5V(57)=107-7736	DF17C(2.0)-40DP-0.5V(57)=107-7743
	DF17C(3.0)-80DS-0.5V(57)=107-7737	DF17C(2.0)-80DP-0.5V(57)=107-7744
	DF17C(4.0)-40DS-0.5V(57)=107-7738	DF17C(4.0)-40DP-0.5V(57)=107-7745
	DF17C(4.0)-80DS-0.5V(57)=107-7741	DF17C(4.0)-80DP-0.5V(57)=107-7746

233331

No. of Ways	Order Code	Price Each			
		1+	50+	100+	500+
<b>Receptacle 3mm Height</b>					
20	<b>390-8197</b>	2.66	2.44	2.21	2.05
20	<b>107-7735</b>	2.66	2.44	2.21	2.05
40	<b>390-8203</b>	3.92	3.56	3.18	3.02
40	<b>107-7736</b>	3.92	3.56	3.18	3.02
80	<b>390-8215</b>	6.42	5.84	5.30	4.94
80	<b>107-7737</b>	6.42	5.84	5.30	4.94
<b>Receptacle 4mm Height</b>					
40	<b>390-8239</b>	3.72	3.40	3.18	2.86
40	<b>107-7738</b>	3.72	3.40	3.18	2.86
80	<b>390-8240</b>	6.09	5.58	5.06	4.74
80	<b>107-7741</b>	6.09	5.58	5.06	4.74
<b>Header 2mm Height</b>					
20	<b>390-8252</b>	2.86	2.60	2.41	2.21
20	<b>107-7742</b>	2.86	2.60	2.41	2.21
40	<b>390-8264</b>	4.17	3.82	3.56	3.24
40	<b>107-7743</b>	4.17	3.82	3.56	3.24
80	<b>390-8276</b>	6.84	6.23	5.68	5.26
80	<b>107-7744</b>	6.84	6.23	5.68	5.26

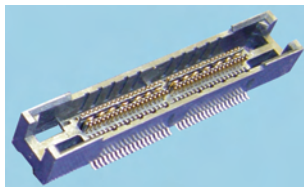
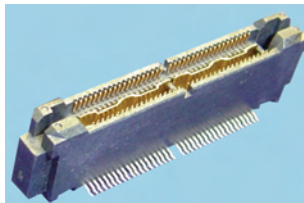
No. of Ways	Order Code	Price Each			
		1+	50+	100+	500+
<b>Header 4mm Height</b>					
40	<b>390-8290</b>	4.27	3.92	3.63	3.31
40	<b>107-7745</b>	4.27	3.92	3.63	3.31
80	<b>390-8306</b>	7.13	6.48	5.94	5.49
80	<b>107-7746</b>	7.13	6.48	5.94	5.49

**0.64mm Pitch Mictor**

**Matched Impedance Connector (MICTOR)**



Pugs and Receptacles, 0.64mm (0.025") Centerline



The MICTOR connector family is based on the micro-strip concept of two rows of signal contacts divided by a ground plane. MICTOR connector board and daughtercard c include designs for cable-to-tions. Various mated heights are available for parallel board-to-board systems. The MICTOR connector family is available in .64 [.025] centerlines in sizes ranging from 38 signal positions to 266 positions (in increments of 38 positions). There is a discrete ground bus every 12.7 [.50] of the connector length, which can be assigned to either power or ground in any combination.



- 76 dedicated signal lines per linear inch
- Designed for parallel board-to-board, flex-to-board and cable-to-board configurations
- 0.64 mm centerline contact spacing
- Redundant interfaces on mated contacts
- Infrared and forced air convection compatible housing materials
- Designed for 50-ohm systems
- Connector housings polarized for correct mating
- Built-in connector-to-board retention feature

Voltage rating	30Vac	Temperature range	-55°C to +125°C
Current rating	7.6A	Housing	Liquid Crystal Polymer
Dielectric strength	500Vac at sea level	Contacts	Copper Alloy
Insulation resistance	10000MR	Ground Bus	Phosphor Bronze

419651

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
<b>Receptacle, Vertical</b>						
38	2-5767004-2	<b>107-6633</b>	21.87	19.46	18.26	16.86
76	2-5767004-3	<b>107-6634</b>	43.75	38.93	36.46	33.66
114	2-5767004-4	<b>107-6635</b>	65.72	58.39	54.78	50.58
152	2-5767004-5	<b>107-6636</b>	87.49	77.79	72.94	67.31
190	2-5767004-6	<b>107-6637</b>	109.47	97.29	91.21	84.21
228	2-5767004-7	<b>107-6638</b>	126.49	112.46	105.43	97.32
266	2-5767004-8	<b>107-6639</b>	153.21	136.19	127.66	117.86
<b>Plug, Vertical, 6.60mm Stack Height</b>						
38	5767007-8	<b>107-6640</b>	21.87	19.46	18.26	16.86
76	5767007-9	<b>107-6641</b>	43.75	38.93	36.46	33.66
114	1-5767007-0	<b>107-6642</b>	65.72	58.39	54.78	50.58
152	1-5767007-1	<b>107-6643</b>	87.49	77.79	72.94	67.31
190	1-5767007-2	<b>107-6644</b>	109.47	97.29	91.21	84.21
228	1-5767007-3	<b>107-6645</b>	126.49	112.46	105.43	97.32
266	1-5767007-4	<b>107-6646</b>	153.21	136.19	127.66	117.86
<b>Plug, Vertical, 10.92mm Stack Height</b>						
38	5767003-9	<b>107-6647</b>	24.15	21.48	20.15	18.62
76	1-5767003-0	<b>107-6648</b>	48.40	43.03	40.36	37.24
114	1-5767003-1	<b>107-6649</b>	72.55	64.51	60.48	55.82
152	5767003-8	<b>107-6650</b>	91.40	81.24	76.20	70.31
190	1-5767003-2	<b>107-6651</b>	114.19	101.49	95.18	87.85
228	1-5767003-3	<b>107-6652</b>	131.01	116.43	109.17	100.77
266	1-5767003-4	<b>107-6653</b>	169.26	150.45	141.07	130.23
<b>Plug, Vertical, 12.57mm Stack Height</b>						
38	5767005-8	<b>107-6654</b>	25.29	22.49	21.09	19.50
76	5767005-9	<b>107-6655</b>	50.62	44.98	42.18	38.96
114	1-5767005-0	<b>107-6656</b>	75.91	67.48	63.28	58.39
152	1-5767005-1	<b>107-6657</b>	101.36	90.10	84.50	77.99
190	1-5767005-2	<b>107-6658</b>	118.35	105.20	98.63	91.04
228	1-5767005-3	<b>107-6659</b>	134.66	119.72	112.23	103.61
266	1-5767005-4	<b>107-6660</b>	177.36	157.64	147.81	136.42

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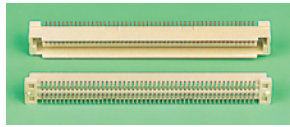
Connectors - PCB

Compliant  
Non-compliant  
RoHS  
Limited stock - RoHS replacement available



0.8mm Pitch (SMT)

'FH' Headers and Sockets



133-851

- High density packing on 0.8mm pitch
- SMT
- Available in 40 - 140 position
- Positioning bosses for proper on-board orientation
- Over 50% space saving compared to conventional 1.27mm connectors

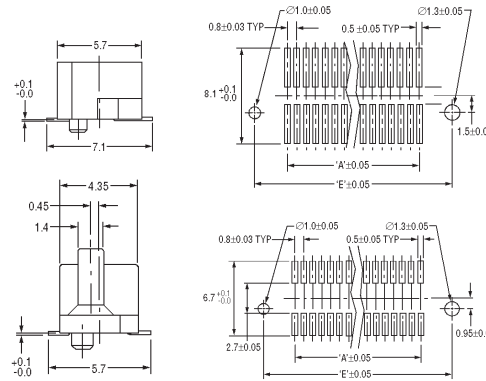
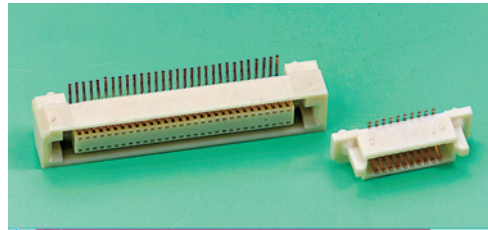
Housing Heat Resistant Thermoplastic UL94V-0  
 Receptacle contacts Beryllium copper, 0.2µm min. gold on contact area, 1.0µm min. tin-lead on soldering area, with entire contact underplated 1.3µm nickel  
 Plug contacts Brass, 0.2µm min. gold on contact area, 1.0µm min. tin-lead on soldering area, with entire contact underplated 1.3µm nickel

SMT Headers				SMT Headers			
No. of Ways	Height	Mfrs. List No.	Order Code	No. of Ways	Height	Mfrs. List No.	Order Code
40	5mm	177984-1	133-826	40	5mm	5177984-1	109-8335
60	5mm	177984-2	133-838	60	5mm	5177984-2	109-8336
80	5mm	177984-3	133-840	80	5mm	5177984-3	109-8337
100	5mm	177984-4	133-851	100	5mm	5177984-4	109-8338
120	5mm	177984-5	133-863	120	5mm	5177984-5	109-8339
140	5mm	177984-6	133-875	140	5mm	5177984-6	109-8340
60	7mm	179030-2	133-887	60	7mm	5179030-2	109-8341
40	8mm	179031-1	133-905	60	8mm	5179031-2	109-8344
60	8mm	179031-2	133-917				

SMT Sockets				SMT Sockets			
No. of Ways	Height	Mfrs. List No.	Order Code	No. of Ways	Height	Mfrs. List No.	Order Code
40	5mm	177983-1	133-929	40	5mm	5177983-1	109-8345
60	5mm	177983-2	133-930	60	5mm	5177983-2	109-8346
80	5mm	177983-3	133-942	80	5mm	5177983-3	109-8347
100	5mm	177983-4	133-954	100	5mm	5177983-4	109-8348
120	5mm	177983-5	133-966	120	5mm	5177983-5	109-8349
140	5mm	177983-6	133-978	140	5mm	5177983-6	109-8350
40	9mm	5-179009-1	133-980	40	9mm	5-5179009-1	109-8351
60	9mm	5-179009-2	133-991	60	9mm	5-5179009-2	109-8352
100	9mm	5-179009-4	134-004	100	9mm	5-5179009-4	109-8353
120	9mm	5-179009-5	134-016	120	9mm	5-5179009-5	109-8355
40	13mm	5-179010-1	134-028	40	13mm	5-5179010-1	109-8356
60	13mm	5-179010-2	134-030	60	13mm	5-5179010-2	109-8357
80	13mm	5-179010-3	134-041	80	13mm	5-5179010-3	109-8358
100	13mm	5-179010-4	134-053	100	13mm	5-5179010-4	109-8359
120	13mm	5-179010-5	134-065	120	13mm	5-5179010-5	109-8360
140	13mm	5-179010-6	134-077	140	13mm	5-5179010-6	109-8361

No. of Ways	Mfrs. List No.	Order Code	1+	100+	250+	500+	+
<b>SMT Sockets</b>							
100	5-179010-4	SMD 134-053▲	6.18	5.91	5.58	4.86	--
100	5-5179010-4	SMD 109-8359●	6.18	6.12	5.16	4.51	--
120	5-179010-5	SMD 134-065▲	6.71	6.39	6.12	5.34	--
120	5-5179010-5	SMD 109-8360●	6.71	6.68	5.63	4.92	--
140	5-179010-6	SMD 134-077▲	7.83	7.47	7.11	6.18	--
140	5-5179010-6	SMD 109-8361●	7.83	7.80	6.57	5.75	--

Plugs and Sockets



- Fine pitch surface mount technology
- Board locating pegs
- 10 to 50 way double row
- Polarised housing
- Low profile design

Voltage rating 100Vac  
 Current rating 0.5A  
 Dielectric strength 300Vac  
 Insulation resistance 100MΩ(250Vdc)  
 Temperature range -55°C to +100°C  
 Solderability 260°C/10sec

Housing GF Polyester UL94V-0  
 Contact: Plug Brass, selective Gold/tin over Nickel plating  
 Socket Phosphor Bronze, selective Gold/tin over Nickel plating

No. of Ways	Dimensions (mm)			No. of Ways	Dimensions (mm)		
	A	Plug	Socket		A	E	E
10+10	7.2	11.2	12.8	25+25	19.2	23.2	24.8
15+15	11.2	15.2	16.8	30+30	23.2	27.2	28.8
20+20	15.2	19.2	20.8	40+40	31.2	35.2	36.8
				50+50	39.2	43.2	44.8

Mfrs. List No. Plugs=M60-614XX22, Sockets=M60-604XX22, where XX=No. of ways

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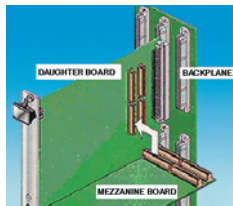
No. of Ways	Order Code	1+	20+	50+	100+	+	+
<b>SMT Plugs</b>							
10+10	SMD 865-874▲	4.68	4.17	3.92	3.27	--	--
10+10	SMD 102-2329●	4.68	4.17	3.92	3.27	--	--
15+15	SMD 865-886▲	5.61	5.04	4.72	3.95	--	--
15+15	SMD 102-2330●	5.61	5.04	4.72	3.95	--	--
20+20	SMD 865-898▲	5.27	4.75	4.51	--	--	--
20+20	SMD 102-2331●	5.27	4.75	4.51	--	--	--
25+25	SMD 865-904▲	7.71	6.90	6.45	5.36	--	--
25+25	SMD 102-2332●	7.71	6.90	6.45	5.36	--	--
30+30	SMD 865-916▲	9.01	8.09	7.54	6.32	--	--
30+30	SMD 102-2333●	9.01	8.09	7.54	6.32	--	--
40+40	SMD 865-928▲	9.28	8.31	7.74	6.48	--	--
40+40	SMD 102-2334●	9.28	8.31	7.74	6.48	--	--
50+50	SMD 865-930▲	10.49	9.41	8.80	7.35	--	--
50+50	SMD 102-2335●	10.49	9.41	8.80	7.35	--	--
<b>SMT Sockets</b>							
10+10	SMD 865-801▲	4.14	3.69	3.43	2.89	--	--
10+10	SMD 102-2321●	4.14	3.69	3.43	2.89	--	--
15+15	SMD 865-813▲	4.74	4.27	3.98	3.34	--	--
15+15	SMD 102-2322●	4.74	4.27	3.98	3.34	--	--
20+20	SMD 865-825▲	5.34	4.82	4.46	3.72	--	--
20+20	SMD 102-2323●	5.34	4.82	4.46	3.72	--	--
25+25	SMD 865-837▲	5.84	5.23	4.91	4.11	--	--
25+25	SMD 102-2324●	5.84	5.23	4.91	4.11	--	--
30+30	SMD 865-849▲	7.04	6.32	5.87	4.94	--	--
30+30	SMD 102-2326●	7.04	6.32	5.87	4.94	--	--
40+40	SMD 865-850▲	9.60	8.66	8.07	7.29	--	--
40+40	SMD 102-2327●	9.60	8.66	8.07	7.29	--	--
50+50	SMD 865-862▲	11.42	10.21	9.53	7.99	--	--
50+50	SMD 102-2328●	11.42	10.21	9.53	7.99	--	--



1.0mm Pitch (SMT)

IEEE 1386 - Mezzanine

1.00mm (.039") Pitch - Plugs and Receptacles



The IEEE1386 Standard contains the details for adding standardized PCI mezzanine cards to VMEbus and Multibus host boards. There are also many LAN, WAN, telecommunications, PC and workstation users who want a standardized mezzanine scheme, and see the IEEE1386 as the best approach. The fully shrouded leaf-style design minimizes the chance of damaging plug contacts, and our receptacle contacts feature a low mating force that reduces PC board stress.

Gold over Nickel contact plating enhances long-term reliability and the UL 94V-0 LCP housings withstand SMT reflow processes. Excellent tolerance absorption allows the connector to be used in combinations of 1-4 mated pairs for up to 256 circuits.

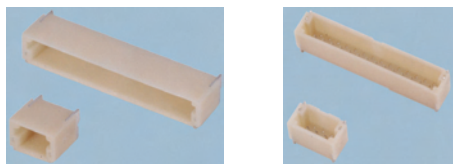
- Mated heights 8, 9, 10, 11, 12, 13, 14 and 15mm
- 64 circuits
- Leaf style design protects pins
- Antiflux design
- Low insertion force
- High temperature LCP housing for use with reflow solder processes

Voltage Rating	100V	Operating temperature range:	-55°C to 85°C
Current Rating	1.0A	Mating/Umating Force	25 g Max / 50 g Min - per contact
Contact Resistance	30mR	Contacts	Phosphor Bronze Gold plated
Withstand Voltage	250V	Approval	UL File No. E29179
Insulation Resistance	1000MR		

335214

Description	Mfrs. List No.	Order Code	Price Each				
			1+	10+	50+	250+	500+
<b>Headers</b>							
8.0mm	714360164	SMD477-1308	12.72	11.73	11.25	10.53	9.90
9.0mm	714361164	SMD477-1310	11.85	10.92	10.47	9.81	9.21
10.0mm	714362164	SMD477-1321	12.72	11.73	11.25	10.53	9.90
10.0mm	714362164	SMD973-4309	13.33	11.22	7.26	5.45	--
<b>Sockets</b>							
8/9/10 mm	714390164	SMD477-1333	11.88	10.92	10.20	9.63	9.33
8/9/10 mm	714390164	SMD973-4317	12.44	10.47	6.77	5.08	--
11/12 mm	714391164	SMD477-1345	11.88	10.92	10.20	9.63	9.33
11/12 mm	714391164	SMD101-2236	12.44	10.47	6.77	5.08	--
13 mm	714392164	SMD477-1357	11.34	10.44	9.75	9.21	8.91
14/15 mm	714393164	SMD477-1369	11.88	10.92	10.20	9.63	9.33
14/15 mm	714393164	SMD101-2237	12.44	10.47	6.77	5.08	--

PCB Headers (SMT Versions)



NEW

- 1mm pitch
- Single and double row headers
- Metal solder tabs
- Low profile
- 2 to 50 positions available
- Contact finish Tin Single Row, Gold Double Row

Voltage rating	50V ac/dc	Insulation resistance	100MΩ (250V dc)
Current rating	1A ac/dc	Temperature range	-25°C to 85°C
Dielectric strength	500V ac	Housing	High-Temp Thermoplastic

Mfrs. List No. Vertical single row header = M40-301XX46, Vertical double row header = M40-302XX05, 90° single row header = M40-401XX46, where XX=No. of ways

386450

Order Multiple=5				
Nbre de	Order Code	Price Each		
No. of Ways		5+	100+	250+
<b>Vertical Single Row Header</b>				
2	872-8984	1.11	1.04	1.01
4	872-8992	1.43	1.27	1.14
6	872-9000	1.59	1.43	1.30
8	872-9018	1.76	1.56	1.40
10	872-9026	1.89	1.69	1.53
12	872-9034	2.05	1.82	1.63
14	872-9042	2.21	1.99	1.76
<b>Vertical Double Row Header</b>				
10+10	872-9050	3.68	3.29	2.93
15+15	872-9069	4.52	4.07	3.68
20+20	872-9077	5.66	5.05	4.52
25+25	872-9085	6.97	6.25	5.60

Order Multiple=5

Nbre de	Order Code	Price Each		
No. of Ways		5+	100+	250+
<b>90° Double Row Header</b>				
2	872-9093	0.88	0.81	0.72
4	872-9107	1.01	0.91	0.81
6	872-9115	1.17	1.07	0.94
8	872-9123	1.33	1.20	1.07
10	872-9131	1.46	1.33	1.20
12	872-9140	1.63	1.46	1.30
14	872-9158	1.76	1.56	1.43

Crimp Terminal Housing



- Single and double housings
- Mates with Harwin 1mm PCB headers
- Low profile
- 2 to 50 positions available
- Uses female crimped contacts see Below

NEW

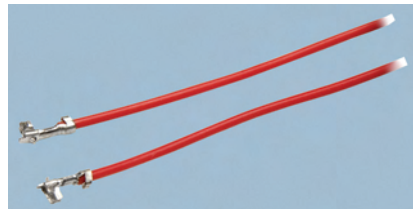
Mfrs. List No. Single row housing = M40-110XX00, Double row housing = M40-120XX00, where XX=No. of ways

386451

Order Multiple=5

No. of	Order Code	Price Each		
Ways		5+	100+	250+
<b>Single Row Housing</b>				
2	872-8879	0.17	0.13	0.10
4	872-8887	0.27	0.23	0.20
6	872-8895	0.40	0.37	0.34
8	872-8909	0.50	0.47	0.40
10	872-8917	0.61	0.57	0.50
12	872-8925	0.78	0.72	0.64
14	872-8933	0.81	0.75	0.68
<b>Double Row Housing</b>				
10+10	872-8941	0.78	0.72	0.64
15+15	872-8950	0.88	0.81	0.72
20+20	872-8968	1.04	0.94	0.85
25+25	872-8976	1.24	1.11	0.98

Female Crimped Contacts



- Supplied with pre-crimped cables
- Choice of cable lengths and sizes
- For use with 1.0mm terminal housings Above
- Twin-beam contacts for high reliability
- Red PTFE equipment wire

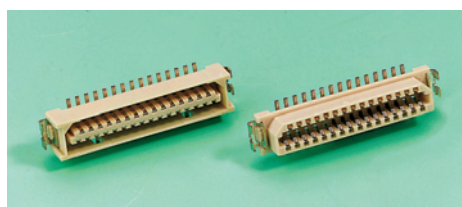
NEW

386454

Order Multiple=10

Contact	Length	Order Code	Price Each		
Size	(mm)		10+	100+	250+
<b>Crimp Socket to Free End</b>					
28AWG	150	872-9166	0.85	0.78	0.75
32AWG	150	872-9174	0.98	0.91	0.88
28AWG	300	872-9182	0.98	0.91	0.88
32AWG	300	872-9190	0.98	0.91	0.88
<b>Crimp Socket to Crimp Socket</b>					
28AWG	150	872-9204	1.11	1.01	0.98
32AWG	150	872-9212	1.30	1.17	1.14
28AWG	300	872-9220	1.30	1.17	1.14
32AWG	300	872-9239	1.30	1.17	1.14

Plugs and Sockets

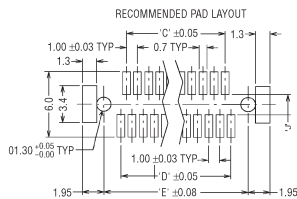
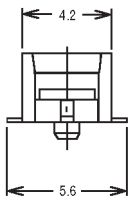


Compliant  
Non-compliant  
RoHS  
+ Limited stock - RoHS replacement available



- High density surface mount technology
- 9 to 51 position with staggered pin out
- 4.3mm stacking height between boards
- Polarised housing

Voltage rating	100Vac	Dimensions (mm)			
		No. of Ways	C	D	E
Current rating	0.5A	9	3.0	4.0	7.1
Dielectric strength	250Vac	15	6.0	7.0	10.1
Insulation resistance	500M $\Omega$ (250Vdc)	21	9.0	10.0	13.1
Temperature range	-55°C to +100°C	25	11.0	12.0	15.1
Solderability	260°C/10sec	31	14.0	15.0	18.1
Housing	Nylon 4.6 UL94V-0	41	19.0	20.0	23.1
Contact	Phosphor Bronze, Tin plated	51	24.0	25.0	28.1



Mfrs. List No. Plugs=M40-60XX06, Sockets=M40-620XX06, where XX=No. of ways

209389

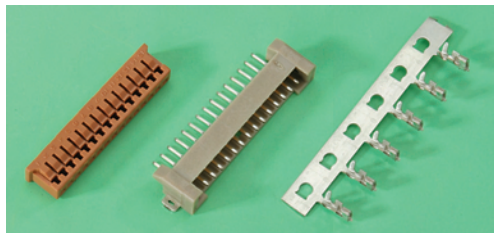
No. of Ways	Order Code	Price Each				
		1+	20+	50+	100+	+ +
<b>SMT Sockets</b>						
9	<b>SMD 866-015</b> ▲‡	3.07	2.76	2.57	2.15	-- --
9	<b>SMD 102-2291</b> ●	3.07	2.76	2.57	2.15	-- --
15	<b>SMD 866-027</b> ‡	3.26	2.96	2.77	2.51	-- --
15	<b>SMD 102-2292</b> ●	3.26	2.96	2.77	2.51	-- --
21	<b>SMD 866-039</b> ▲‡	3.81	3.40	3.21	2.66	-- --
21	<b>SMD 102-2293</b> ●	3.81	3.40	3.21	2.66	-- --
25	<b>SMD 866-040</b> ▲‡	4.17	3.72	3.50	2.95	-- --
25	<b>SMD 102-2294</b> ●	4.17	3.72	3.50	2.95	-- --
31	<b>SMD 866-052</b> ▲‡	4.64	4.14	3.88	3.24	-- --
31	<b>SMD 102-2296</b> ●	4.64	4.14	3.88	3.24	-- --
41	<b>SMD 866-064</b> ▲‡	5.18	4.65	4.33	3.63	-- --
41	<b>SMD 102-2297</b> ●	5.18	4.65	4.33	3.63	-- --
51	<b>SMD 866-076</b> ▲‡	6.21	5.59	5.20	4.33	-- --
51	<b>SMD 102-2298</b> ●	6.21	5.59	5.20	4.33	-- --

No. of Ways	Order Code	Price Each				
		1+	20+	50+	100+	+ +
<b>SMT Plugs</b>						
9	<b>SMD 865-941</b> ▲‡	2.94	2.63	2.44	2.02	-- --
9	<b>SMD 102-2284</b> ●	2.94	2.63	2.44	2.02	-- --
15	<b>SMD 865-953</b> ▲‡	2.60	2.34	2.23	--	-- --
15	<b>SMD 102-2285</b> ●	2.60	2.34	2.23	--	-- --
21	<b>SMD 865-965</b> ▲‡	3.61	3.27	3.05	2.54	-- --
21	<b>SMD 102-2286</b> ●	3.61	3.27	3.05	2.54	-- --
25	<b>SMD 865-977</b> ▲‡	3.97	3.56	3.34	2.79	-- --
25	<b>SMD 102-2287</b> ●	3.97	3.56	3.34	2.79	-- --
31	<b>SMD 865-989</b> ▲‡	2.87	2.57	2.41	1.99	-- --
31	<b>SMD 102-2288</b> ●	2.87	2.57	2.42	--	-- --
41	<b>SMD 865-990</b> ‡	4.94	4.43	4.14	3.47	-- --
41	<b>SMD 102-2289</b> ●	4.94	4.43	4.14	3.47	-- --
51	<b>SMD 866-003</b> ▲‡	5.91	5.30	4.94	4.14	-- --
51	<b>SMD 102-2290</b> ●	5.91	5.30	4.94	4.14	-- --

**1.25mm Pitch Headers and Housings**

**IL-Z series PCB to Wire Connectors**

1.25mm Pitch



IL-Z connectors are designed for wire to board applications. The series includes board mounted headers (straight and RA) and wire terminated socket housings.

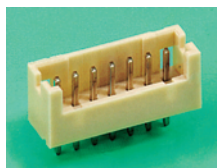
- 1.25 mm contact spacing
- 2 to 15 contacts
- SMT and through hole pin headers
- boxed pin header design to prevent mismatching
- Anti wicking feature

Current Rating	1A
Insulation Resistance	100M $\Omega$
Operating Temperature	-40°C to 70°C
Contact Resistance	≤20m $\Omega$
Pitch	1.25mm
Withstand Voltage	500V AC rms per minute
Insulator	Nylon 6-6 UL94V-0
PCB Thickness	0.6mm to 1.2mm
Applicable Wire	32AWG to 28AWG

233425

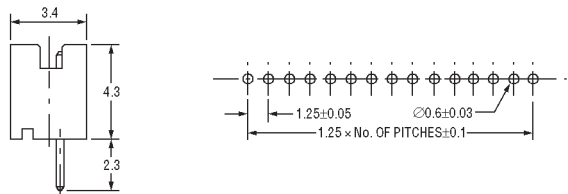
No. Contacts	Mfrs. List No.	Order Code	Price Each			
			1+	100+	250+	
<b>Pin Header - SMT - Right Angle</b>						
2	IL-Z-2PL-SMTY	<b>388-7005</b> ▲‡	0.74	0.67	0.60	
2	IL-Z-2PL-SMTYE	<b>965-0814</b> ●	0.74	0.67	0.60	
3	IL-Z-3PL-SMTY	<b>388-7017</b> ▲‡	0.80	0.74	0.70	
3	IL-Z-3PL-SMTYE	<b>965-0822</b> ●	0.80	0.74	0.70	
4	IL-Z-4PL-SMTY	<b>388-7029</b> ▲‡	0.90	0.87	--	
4	IL-Z-4PL-SMTYE	<b>965-0830</b> ●	0.90	0.87	--	
5	IL-Z-5PL-SMTY	<b>388-7030</b> ▲‡	0.96	0.92	--	
5	IL-Z-5PL-SMTYE	<b>965-0849</b> ●	0.96	0.92	--	
6	IL-Z-6PL-SMTY	<b>388-7042</b> ▲‡	1.00	0.96	--	
6	IL-Z-6PL-SMTYE	<b>965-0857</b> ●	1.00	0.96	--	
7	IL-Z-7PL-SMTY	<b>388-7054</b> ▲‡	1.03	1.02	--	
8	IL-Z-8PL-SMTY	<b>388-7066</b> ▲‡	1.06	--	--	
8	IL-Z-8PL-SMTYE	<b>965-0865</b> ●	1.06	--	--	
9	IL-Z-9PL-SMTY	<b>388-7078</b> ▲‡	1.12	--	--	
10	IL-Z-10PL-SMTY	<b>388-7080</b> ▲‡	0.88	0.85	--	
10	IL-Z-10PL-SMTYE	<b>965-0873</b> ●	0.88	0.85	--	
11	IL-Z-11PL-SMTY	<b>388-7091</b> ▲‡	1.21	--	--	
12	IL-Z-12PL-SMTY	<b>388-7108</b> ▲‡	0.94	--	--	
12	IL-Z-12PL-SMTYE	<b>965-0881</b> ●	0.94	--	--	
13	IL-Z-13PL-SMTY	<b>388-7110</b> ▲‡	1.35	--	--	
14	IL-Z-14PL-SMTY	<b>388-7121</b> ▲‡	1.35	--	--	
15	IL-Z-15PL-SMTY	<b>388-7133</b> ▲‡	1.35	1.33	--	
15	IL-Z-15PL-SMTYE	<b>965-0890</b> ●	1.35	1.33	--	
<b>Pin Header - Through Hole - Straight</b>						
2	IL-Z-2P-S125T3-E	<b>114-5134</b> ●	0.33	--	--	
3	IL-Z-3P-S125T3-E	<b>388-7157</b> ●	0.36	0.33	0.33	
3	IL-Z-3P-S125T3-E	<b>110-7588</b> ●	0.36	0.33	0.33	
4	IL-Z-4P-S125T3-E	<b>114-5135</b> ●	0.42	--	--	
5	IL-Z-5P-S125T3-E	<b>114-5136</b> ●	0.44	0.42	--	
6	IL-Z-6P-S125T3-E	<b>114-5138</b> ●	0.47	0.44	0.41	
8	IL-Z-8P-S125T3-E	<b>114-5139</b> ●	0.57	0.55	--	
14	IL-Z-14P-S125T3-E	<b>114-5140</b> ●	0.87	0.84	--	
15	IL-Z-15P-S125T3-E	<b>114-5141</b> ●	0.72	0.68	--	
<b>Pin Header - Through Hole - RA</b>						
2	IL-Z-2P-S125L3-E	<b>388-7285</b>	0.33	--	--	
3	IL-Z-3P-S125L3-E	<b>388-7297</b>	0.34	0.33	--	
4	IL-Z-4P-S125L3-E	<b>388-7303</b>	0.42	--	--	
5	IL-Z-5P-S125L3-E	<b>388-7315</b>	0.44	0.42	--	
6	IL-Z-6P-S125L3-E	<b>388-7327</b>	0.47	0.44	0.42	
8	IL-Z-8P-S125L3-E	<b>388-7340</b>	0.56	--	--	
9	IL-Z-9P-S125L3-E	<b>388-7352</b>	0.58	--	--	
10	IL-Z-10P-S125L3-E	<b>388-7364</b>	0.70	--	--	
11	IL-Z-11P-S125L3-E	<b>388-7376</b>	0.70	--	--	
12	IL-Z-12P-S125L3-E	<b>388-7388</b>	0.79	--	--	
<b>Socket Housing</b>						
2	IL-Z-2S-S125C3	<b>388-7420</b>	0.24	0.22	--	
2	IL-Z-2S-S125C3	<b>110-7589</b> ●	0.24	0.22	--	
3	IL-Z-3S-S125C3	<b>388-7431</b>	0.20	0.18	0.15	
3	IL-Z-3S-S125C3	<b>110-7590</b> ●	0.20	0.18	0.15	
4	IL-Z-4S-S125C3	<b>388-7443</b>	0.28	--	--	
4	IL-Z-4S-S125C3	<b>110-7591</b> ●	0.28	--	--	
5	IL-Z-5S-S125C3	<b>388-7455</b>	0.28	--	--	
5	IL-Z-5S-S125C3	<b>110-7592</b> ●	0.28	--	--	
6	IL-Z-6S-S125C3	<b>388-7467</b>	0.33	0.32	--	
6	IL-Z-6S-S125C3	<b>110-7593</b> ●	0.33	0.32	--	
7	IL-Z-7S-S125C3	<b>388-7479</b>	0.37	--	--	
7	IL-Z-7S-S125C3	<b>110-7594</b> ●	0.37	--	--	
8	IL-Z-8S-S125C3	<b>388-7480</b>	0.31	0.28	--	
8	IL-Z-8S-S125C3	<b>110-7595</b> ●	0.31	0.28	--	
9	IL-Z-9S-S125C3	<b>388-7492</b>	0.37	--	--	
9	IL-Z-9S-S125C3	<b>110-7596</b> ●	0.37	--	--	
10	IL-Z-10S-S125C3	<b>388-7509</b>	0.36	0.31	--	
10	IL-Z-10S-S125C3	<b>110-7597</b> ●	0.36	0.31	--	
11	IL-Z-11S-S125C3	<b>388-7510</b>	0.51	--	--	
12	IL-Z-12S-S125C3	<b>388-7522</b>	0.57	0.55	--	
12	IL-Z-12S-S125C3	<b>110-7600</b> ●	0.57	0.55	--	
13	IL-Z-13S-S125C3	<b>388-7534</b>	0.60	--	--	
14	IL-Z-14S-S125C3	<b>388-7546</b>	0.67	0.65	--	
14	IL-Z-14S-S125C3	<b>110-7601</b> ●	0.67	0.65	--	
15	IL-Z-15S-S125C3	<b>388-7558</b>	0.74	0.68	--	
15	IL-Z-15S-S125C3	<b>110-7602</b> ●	0.74	0.68	--	
<b>Tools</b>			<b>1+</b>			
Crimp Tool	CT150-4C-ILZ	<b>388-7571</b>	1,390.08			
Ext Tool	ET-ILZ	<b>388-7595</b>	40.56			
			<b>Price Per Pack (100)</b>			
<b>Contacts</b>			<b>Order Code</b>	<b>1+</b>	<b>5+</b>	<b>10+</b>
28-32 AWG	IL-Z-C3-A-15000	<b>388-7560</b>	7.69	6.97	6.42	
28-32 AWG	IL-Z-C3-A-15000	<b>110-7603</b> ●	7.71	7.13	6.58	

**Crimp Housing and PCB Headers**



- Through hole and surface mount headers
- High temperature material for vapour phase, IR or hot air soldering
- Polarised housing
- 3 to 14 position, single row





Voltage rating 150V ac/dc  
 Current rating 1A ac/dc  
 Dielectric strength 500V ac  
 Insulation resistance 1000MΩ (250V dc)  
 Mfrs. List No. M30-610XX06, where XX=No. of ways

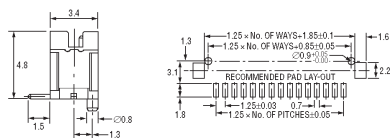
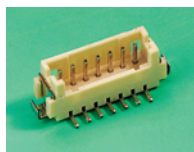
Temperature range -55°C to 85°C  
 Housing: Header Nylon 4,6 UL94V-0  
 Housing: Crimp Nylon 4,6 UL94V-0

209383

Order Multiple=5

No of Ways	Order Code	5+	20+	50+	100+	+	+
3	866-088	1.64	1.57	1.44	1.22	--	--
3	102-2276	1.64	1.57	1.44	1.22	--	--
4	866-090	1.87	1.80	1.64	1.41	--	--
4	102-2277	1.87	1.80	1.64	1.41	--	--
6	866-106	2.14	2.02	1.86	1.60	--	--
6	102-2278	2.14	2.02	1.86	1.60	--	--
8	866-118	2.54	2.47	2.25	1.89	--	--
8	102-2279	2.54	2.47	2.25	1.89	--	--
10	866-120	2.84	2.73	2.50	2.15	--	--
10	102-2280	2.84	2.73	2.50	2.15	--	--
12	866-131	3.24	3.11	2.82	2.44	--	--
12	102-2281	3.24	3.11	2.82	2.44	--	--
14	866-143	3.64	3.50	3.21	2.73	--	--
14	102-2282	3.64	3.50	3.21	2.73	--	--

PCB Headers (SMT Versions)

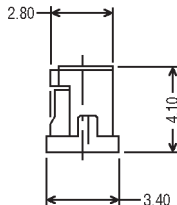
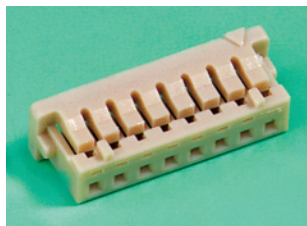


Mfrs. List No. M30-600XX06, where XX=No. of ways

209382

No of Ways	Order Code	5+	20+	50+	100+	+	+
3	SMD866-155	1.37	1.35	1.19	1.03	--	--
3	SMD102-2268	1.37	1.35	1.19	1.03	--	--
4	SMD866-167	1.80	1.73	1.57	1.35	--	--
4	SMD102-2269	1.80	1.73	1.57	1.35	--	--
6	SMD866-179	2.05	1.98	1.79	1.53	--	--
6	SMD102-2270	2.05	1.98	1.79	1.53	--	--
8	SMD866-180	2.33	2.25	2.02	1.73	--	--
8	SMD102-2272	2.33	2.25	2.02	1.73	--	--
10	SMD866-192	2.77	2.63	2.41	2.05	--	--
10	SMD102-2273	2.77	2.63	2.41	2.05	--	--
12	SMD866-209	3.17	3.08	2.79	2.38	--	--
12	SMD102-2274	3.17	3.08	2.79	2.38	--	--
14	SMD889-167	3.47	3.34	3.05	2.60	--	--
14	SMD102-2275	3.47	3.34	3.05	2.60	--	--

Crimp Terminal Housing



FOR SUITABLE CRIMP TERMINALS, 889-246 See below

Mfrs. List No. M30-110XX00, where XX=No. of ways

209385

No of Ways	Order Code	10+	50+	100+	250+	+	+
3	889-179	0.51	0.50	0.47	0.36	--	--
4	889-180	0.54	0.50	0.47	0.41	--	--
6	889-192	0.60	0.57	0.50	0.41	--	--
8	889-209	0.60	0.57	0.50	0.44	--	--
10	889-210	0.60	0.57	0.54	0.47	--	--
12	889-222	0.63	0.60	0.57	0.47	--	--
14	889-234	0.67	0.63	0.57	0.50	--	--

Crimp Terminal



Insulation Diameter=1.0 max, Strip length=1.2-1.9mm

209381

105 Per Pack

Finish	AWG	Mfrs. List No.	Order Code	1+	5+	10+
Tin	26-30	M30F1010006	889-246	18.03	16.21	14.16
Tin	26-30	M30-1010046	102-2267	18.03	16.21	14.16

Crimp Tool



209379

Mfrs. List No.	Order Code	Price Each
Z30-020	889-258	2,139.70

Crimp Housing and PCB Headers

- 1.25mm high density, wire to board connectors
- 2 to 10 way
- Through hole and SMT version pcb headers
- Polarised housing
- Low mating force
- Low profile

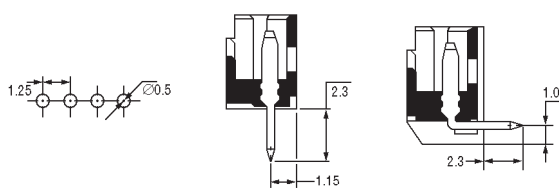
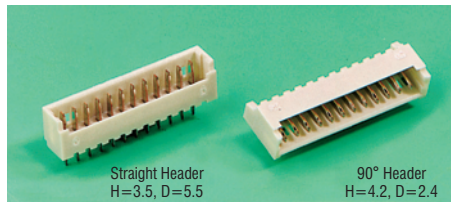


Voltage rating 125V  
 Current rating 1.0A (0.8A for 32 AWG)  
 Dielectric strength 250Vac/1 min  
 Insulation resistance 100MΩ

Temperature range -40°C to +85°C  
 Housing GF Nylon UL94V-0  
 Terminal Phosphor Bronze, Tin plated

209376

PCB Headers



Mfrs. List No. Straight header=53047-XX10, 90° Header=53048-XX10, where XX=No. of ways

209377

No of Ways	Order Code	5+	100+	250+	500+	+
<b>Straight Header</b>						
2	889-271	0.47	0.38	0.34	0.25	--
3	611-360	0.53	0.41	0.38	0.28	--
3	973-2853	0.58	0.37	0.30	--	--
4	889-283	0.63	0.50	0.44	0.34	--
4	973-3060	0.73	0.46	0.37	--	--
5	612-236	0.72	0.59	0.53	0.41	--
5	973-2861	0.80	0.50	0.41	--	--
6	889-295	0.77	0.66	0.59	0.47	--
6	973-3078	0.97	0.61	0.50	--	--
7	614-750	0.94	0.72	0.66	0.53	--
7	973-2870	1.03	0.65	0.53	--	--
8	889-301	0.94	0.81	0.75	0.56	--
8	101-2258	1.22	0.77	0.62	--	--
9	614-762	1.13	0.90	0.84	0.63	--
9	973-2888	1.27	0.80	0.65	--	--
10	889-313	1.12	0.96	0.90	0.69	--
10	973-3086	1.46	0.92	0.75	--	--
12	614-786	1.44	1.14	1.02	0.81	--
12	973-2896	1.61	1.01	0.82	--	--
13	614-798	2.12	1.68	1.53	1.20	--

Compliant  
 Non-compliant  
 Limited stock - RoHS replacement available

**RoHS**

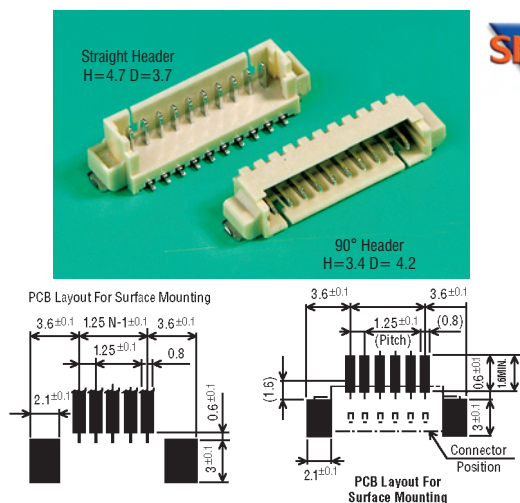


Straight Header	5+	100+	250+	500+	+
13 101-2238	2.49	1.57	1.25	--	--
14 614-804	2.28	1.77	1.62	1.26	--
14 973-2900	2.65	1.67	1.33	--	--

90° Header	5+	100+	250+	500+	+
2 889-325	0.48	0.38	0.34	0.28	--
2 101-2259	0.57	0.36	0.29	--	--
3 614-828	0.56	0.44	0.41	0.31	--
3 973-2918	0.62	0.39	0.32	--	--
5 614-830	0.81	0.63	0.56	0.44	--
5 973-2926	0.89	0.56	0.46	--	--
6 889-349	0.88	0.72	0.66	0.50	--
6 101-2260	1.07	0.68	0.55	--	--
7 614-841	1.03	0.81	0.72	0.56	--
7 973-2934	1.14	0.72	0.58	--	--
8 889-350	1.01	0.90	0.81	0.63	--
8 973-3094	1.34	0.85	0.69	--	--
9 614-853	1.26	0.99	0.90	0.69	--
9 101-2239	1.40	0.88	0.72	--	--
10 889-362	1.22	1.05	0.96	0.75	--
10 973-3108	1.60	1.01	0.82	--	--
14 614-890	2.13	1.34	1.09	--	--
14 101-2240	2.13	1.34	1.09	--	--
15 614-907	1.93	1.53	1.38	1.05	--
15 973-2942	2.16	1.36	1.08	--	--

PCB Headers (SMT Versions)



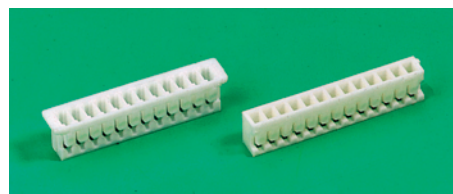
- Metal strain relief tabs

Mfrs. List No. Straight Header=53398-XX90, 90 Header=53261-XX90, where XX=No. of ways

No. of Ways	Order Code	5+	100+	250+	500+	+
<b>Straight Header</b>						
2	SMD 389-374	1.26	0.96	0.90	0.69	--
2	SMD 112-5366	1.46	0.92	0.75	--	--
3	SMD 614-919	1.47	1.14	1.02	0.81	--
3	SMD 112-5353	1.70	1.07	0.87	--	--
4	SMD 889-386	1.54	1.32	1.20	0.90	--
4	SMD 112-5367	1.93	1.22	0.99	--	--
5	SMD 614-920	1.87	1.47	1.32	1.02	--
5	SMD 112-5354	2.06	1.30	1.05	--	--
6	SMD 889-398	1.89	1.62	1.47	1.14	--
6	SMD 112-5368	2.25	1.42	1.13	--	--
7	SMD 614-932	2.28	1.77	1.62	1.26	--
7	SMD 978-6368	2.63	1.66	1.32	--	--
8	SMD 389-404	2.27	1.92	1.77	1.38	--
8	SMD 112-5371	2.89	1.82	1.45	--	--
9	SMD 614-944	2.68	2.10	1.89	1.47	--
9	SMD 112-5355	3.10	1.96	1.56	--	--
10	SMD 389-416	2.87	2.25	2.07	1.59	--
10	SMD 112-5372	3.35	2.11	1.68	--	--
11	SMD 614-956	3.09	2.43	2.22	1.71	--
11	SMD 978-6376	3.57	2.25	1.79	--	--
12	SMD 614-968	3.28	2.58	2.34	1.80	--
12	SMD 112-5356	3.81	2.40	1.91	--	--
14	SMD 614-981	3.68	2.91	2.61	2.07	--
14	SMD 978-6384	4.29	2.71	2.15	--	--
15	SMD 614-993	3.87	3.06	2.79	2.16	--
15	SMD 112-5358	4.50	2.84	2.26	--	--
<b>90° Header</b>						
2	SMD 389-428	1.59	1.26	1.11	0.87	--
2	SMD 112-5373	1.83	1.16	0.94	--	--
3	SMD 615-006	1.59	1.26	1.11	0.87	--
3	SMD 112-5359	1.85	1.17	0.95	--	--
4	SMD 889-430	1.78	1.38	1.26	0.96	--

90° Header	5+	100+	250+	500+	+
4 SMD 112-5374	2.05	1.29	1.05	--	--
5 SMD 615-018	1.93	1.50	1.38	1.05	--
5 SMD 112-5360	2.24	1.41	1.13	--	--
6 SMD 889-441	2.09	1.65	1.47	1.14	--
6 SMD 112-5375	2.42	1.52	1.21	--	--
7 SMD 615-020	2.25	1.77	1.62	1.26	--
7 SMD 112-5361	2.62	1.65	1.32	--	--
8 SMD 889-453	2.40	1.89	1.71	1.35	--
8 SMD 112-5376	2.79	1.76	1.40	--	--
9 SMD 615-031	2.56	2.04	1.83	1.41	--
9 SMD 112-5362	2.98	1.88	1.50	--	--
10 SMD 889-465	2.71	2.13	1.92	1.50	--
10 SMD 112-5377	3.17	2.00	1.59	--	--
12 SMD 615-055	3.06	2.40	2.19	1.68	--
12 SMD 112-5363	3.54	2.23	1.78	--	--
14 SMD 615-079	3.40	2.67	2.43	1.86	--
14 SMD 112-5364	3.95	2.49	1.98	--	--
15 SMD 615-080	3.53	2.79	2.52	1.98	--
15 SMD 112-5365	4.10	2.59	2.06	--	--

Crimp Terminal Housings



Receptacle Housing H=3.95 D=3.2

Board-in Housing H=3.5, D=2.2

- Receptacle and board-in housing

Mfrs. List No. Receptacle Housing=51021-XX00, Board-In=51022-XX00, where XX=No. of ways

209378

No of Ways	Order Code	5+	100+	250+	500+	+
<b>Receptacle Housing</b>						
2	889-477	0.23	0.18	0.16	0.13	--
3	615-092	0.26	0.21	0.19	0.15	--
4	889-489	0.30	0.25	0.23	0.17	--
4	973-3116	0.37	0.23	0.19	--	--
5	615-109	0.35	0.28	0.25	0.19	--
6	889-490	0.38	0.30	0.28	0.21	--
6	101-2261	0.45	0.28	0.23	--	--
7	615-110	0.44	0.34	0.31	0.24	--
8	889-507	0.45	0.37	0.34	0.26	--
8	101-2262	0.55	0.35	0.28	--	--
9	615-122	0.50	0.40	0.36	0.28	--
10	889-519	0.55	0.44	0.40	0.31	--
10	973-3124	0.65	0.41	0.34	--	--
11	615-134	0.59	0.47	0.42	0.33	--
12	121-1003	0.75	0.56	0.51	0.45	--
13	615-158	0.67	0.52	0.47	0.37	--
14	615-160	0.72	0.56	0.51	0.39	--
15	615-171	0.75	0.59	0.53	0.41	--
15	101-2242	0.87	0.55	0.44	--	--
<b>Board-in Housing</b>						
2	889-520	0.23	0.18	0.16	0.13	--
2	101-2263	0.28	0.17	0.14	--	--
3	615-183	0.25	0.20	0.18	0.14	--
4	889-532	0.31	0.25	0.23	0.17	--
4	101-2264	0.37	0.23	0.19	--	--
5	615-195	0.36	0.29	0.26	0.20	--
6	889-544	0.37	0.30	0.26	0.21	--
6	101-2266	0.37	0.23	0.19	--	--
8	889-556	0.49	0.39	0.35	0.28	--
8	101-2267	0.58	0.37	0.30	--	--
9	615-213	0.50	0.39	0.36	0.28	--
10	889-568	0.59	0.47	0.42	0.33	--
11	615-225	0.58	0.45	0.41	0.32	--
12	615-237	0.69	0.54	0.49	0.38	--
14	615-250	0.74	0.60	0.54	0.42	--
15	615-262	0.75	0.58	0.53	0.41	--

Crimped Leads



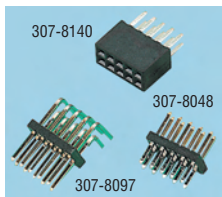
- Pre-crimped interconnecting leads
- Crimped socket to socket, socket to board-in and socket to free end
- Available in 150mm and 300mm lengths

209399

10 Per Pack Length	Mfrs. List No.	Order Code	Price Per Pack		
			1+	5+	10+
<b>150mm</b>					
Crimp socket to socket	6660012	<b>889-570</b>	15.45	13.80	12.09
Crimp socket to socket	6660012	<b>112-5272</b> ●	18.68	15.72	10.17
Crimp socket to board-in	6660016	<b>889-581</b>	15.45	13.80	12.09
Crimp socket to board-in	6660016	<b>112-5273</b> ●	174.00	146.40	94.80
<b>300mm</b>					
Crimp socket to socket	6660013	<b>889-593</b>	15.99	14.13	12.45
Crimp socket to socket	6660013	<b>112-5274</b> ●	17.89	15.06	9.75
Crimp socket to board-in	6660017	<b>889-600</b>	15.99	14.13	12.45
Crimp socket to board-in	6660017	<b>112-5275</b> ●	18.01	15.16	9.81
Crimp socket to free end	6660015	<b>889-611</b>	10.77	9.66	8.46
Crimp socket to free end	6660015	<b>112-5276</b> ●	13.25	11.15	7.22

**1.27mm Pitch Headers and Housings**

**M50 - Series PCB Through Hole Headers and Sockets**



- 1.27mm pitch
- 1.27mm row spacing

Housings Thermoplastic (UL94V-0)  
 Contacts Copper alloy, plated Gold/Tin  
 Temperature Range -40°C to +105°C  
 Current Rating 1A  
 Contact resistance 30Ω max  
 Insulation resistance 1000MΩ min  
 Dielectric Voltage 500Vac min

Mfrs. List No: Double row headers straight M50-350xx22  
 Double row headers right angled M50-390xx22  
 Double row vertical sockets M50-300xx22  
 Double row R/A sockets M50-320xx45

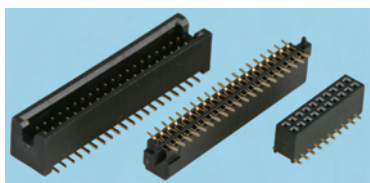
Where xx = No of pins on 1 side of connector I.E 05 for 10 way

No. of Ways	Order Code	Price Each				
		5+	25+	100+	250+	+
<b>Dual Row Headers</b>						
5+5	<b>307-8048</b> ▲‡	1.43	1.35	1.28	1.12	--
5+5	<b>102-2305</b> ●	1.43	1.35	1.28	1.12	--
10+10	<b>307-8050</b> ▲‡	2.57	2.41	2.31	2.05	--
10+10	<b>102-2306</b> ●	2.57	2.41	2.31	2.05	--
20+20	<b>307-8061</b> ▲‡	4.39	4.10	3.91	3.71	--
20+20	<b>102-2307</b> ●	4.39	4.10	3.91	3.71	--
25+25	<b>307-8073</b> ▲‡	5.48	5.10	4.88	4.37	--
25+25	<b>102-2308</b> ●	5.48	5.10	4.88	4.37	--
50+50	<b>307-8085</b> ▲‡	10.83	10.12	9.63	8.66	--
50+50	<b>102-2309</b> ●	10.83	10.12	9.63	8.66	--
<b>Dual Row Headers, Right Angled</b>						
5+5	<b>307-8097</b> ▲‡	1.77	1.64	1.57	1.41	--
5+5	<b>102-2316</b> ●	1.77	1.64	1.57	1.41	--
10+10	<b>307-8103</b> ▲‡	3.54	3.31	3.15	2.82	--
10+10	<b>102-2317</b> ●	3.54	3.31	3.15	2.82	--
20+20	<b>307-8115</b> ▲‡	5.71	5.33	5.07	4.56	--
20+20	<b>102-2318</b> ●	5.71	5.33	5.07	4.56	--
25+25	<b>307-8127</b> ▲‡	8.00	--	--	--	--
25+25	<b>102-2319</b> ●	8.00	--	--	--	--
50+50	<b>307-8139</b> ▲‡	12.12	11.33	10.79	9.69	--
50+50	<b>102-2320</b> ●	12.12	11.33	10.79	9.69	--
<b>Dual Row Vertical Sockets</b>						
5+5	<b>307-8140</b> ▲‡	2.01	--	--	--	--
5+5	<b>102-2299</b> ●	2.01	--	--	--	--
10+10	<b>307-8152</b> ▲‡	3.40	3.15	3.02	2.79	--
10+10	<b>102-2300</b> ●	3.40	3.15	3.02	2.79	--
20+20	<b>307-8164</b> ▲‡	5.39	5.01	4.78	4.30	--
20+20	<b>102-2302</b> ●	5.39	5.01	4.78	4.30	--
25+25	<b>307-8176</b> ▲‡	6.44	6.00	5.71	5.14	--
25+25	<b>102-2303</b> ●	6.44	6.00	5.71	5.14	--
50+50	<b>307-8188</b> ▲‡	13.12	12.26	11.65	10.50	--
50+50	<b>102-2304</b> ●	13.12	12.26	11.65	10.50	--
<b>Dual Row R/A Sockets</b>						
5+5	<b>NEW 109-9534</b> ●	4.00	3.74	3.58	3.39	--
10+10	<b>NEW 109-9535</b> ●	7.13	6.67	6.41	6.05	--
20+20	<b>NEW 109-9536</b> ●	11.62	10.90	10.45	9.86	--
50	<b>NEW 109-9537</b> ●	14.52	13.64	13.09	12.34	--

**M50 - Series, Surface Mount Headers and Sockets**



**HARWIN**



- 1.27mm pitch
- 1.27mm Row Spacing

**NEW**

Housings Thermoplastic (UL94V-0)  
 Contacts Copper Alloy, plated Gold  
 Temperature Range -40°C to +105°C  
 Current Rating 1A  
 Mfrs. List No: Dual row SMT Socket, 4.45mm High M50-310xx45  
 Dual row socket SMT polarised M50-430xx45  
 Dual row, dual entry SMT socket M50-315xx42  
 Dual row SMT header M50-360xx42  
 Dual row SMT header M50-360xx22 (Not RoHS compliant)  
 Dual row SMT polarised header M50-490xx45

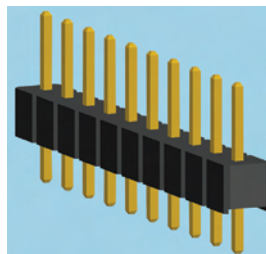
Where xx = No of pins on 1 side of connector eg. 05 for 10 way

No. of Ways	Order Code	Price Each				
		1+	25+	100+	250+	+
<b>Dual Row Socket</b>						
10	<b>109-9523</b> ●	4.00	3.74	3.58	3.39	--
20	<b>109-9524</b> ●	7.13	6.67	6.41	6.05	--
40	<b>109-9525</b> ●	11.62	10.90	10.45	9.86	--
50	<b>109-9526</b> ●	14.52	13.64	13.09	12.34	--
100	<b>109-9527</b> ●	28.74	26.92	25.84	24.41	--
<b>Dual Row Polarised Socket</b>						
10	<b>109-9529</b> ●	4.00	3.74	3.58	3.39	--
20	<b>109-9531</b> ●	7.13	6.67	6.41	6.05	--
40	<b>109-9532</b> ●	11.62	10.90	10.45	9.86	--
50	<b>109-9533</b> ●	14.52	13.64	13.09	12.34	--
<b>Dual Row, Dual Entry Socket</b>						
10	<b>118-9107</b> ●	2.94	2.74	2.60	2.35	--
20	<b>118-9108</b> ●	4.55	4.26	4.04	3.62	--
40	<b>118-9109</b> ●	6.61	6.13	5.87	5.26	--
50	<b>118-9110</b> ●	8.23	7.68	7.30	6.61	--
100	<b>307-8231</b> ▲	13.59	12.68	12.07	10.88	--
<b>Dual Row Header</b>						
10	<b>307-7998</b> ▲‡	1.36	1.28	1.22	1.09	--
10	<b>102-2310</b> ●	1.36	1.28	1.22	1.09	--
20	<b>307-8000</b> ▲‡	2.77	2.57	2.47	2.21	--
20	<b>102-2311</b> ●	2.77	2.57	2.47	2.21	--
40	<b>307-8012</b> ▲‡	4.54	4.24	4.04	3.63	--
40	<b>102-2312</b> ●	4.54	4.24	4.04	3.63	--
50	<b>307-8024</b> ▲‡	5.97	5.59	5.30	4.78	--
50	<b>102-2314</b> ●	5.97	5.59	5.30	4.78	--
100	<b>307-8036</b> ▲‡	12.65	11.78	11.24	10.11	--
100	<b>102-2315</b> ●	12.65	11.78	11.24	10.11	--
<b>Dual Row Polarised Shrouded Header</b>						
10	<b>109-9538</b> ●	4.46	4.20	4.00	3.81	--
20	<b>109-9539</b> ●	7.81	7.32	7.03	6.64	--
40	<b>109-9540</b> ●	14.16	13.28	12.73	12.01	--
50	<b>109-9542</b> ●	17.90	16.80	16.11	15.20	--

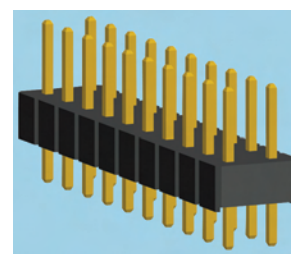
**M52 - Series, PCB Through Hole Headers and Sockets**

**NEW**

**HARWIN**



Single row header



Dual row header

- 1.27mm pitch
- 2.54mm row spacing on dual row products

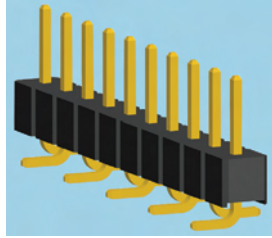
Housings Thermoplastic (UL94V-0)  
 Contacts Copper Alloy, plated Gold  
 Temperature Range -40°C to +105°C  
 Current Rating 1A  
 Mfrs. List No: Single row vertical Socket M52-500xx45  
 Dual row vertical socket M52-510xx45  
 Single Row vertical header M52-040023Vxx45  
 Dual row vertical header M52-040023Wxx45

Where xx = Dual row products, No of pins on 1 side of connector eg. 05 for 10 way

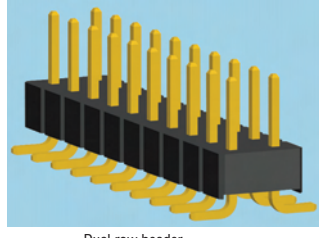
No. of Ways	Order Code	Price Each				
		1+	25+	100+	250+	+
<b>Single Row Socket</b>						
5	<b>109-9543</b> ●	1.37	1.27	1.20	1.14	--
10	<b>109-9544</b> ●	2.51	2.38	2.28	2.15	--
20	<b>109-9545</b> ●	4.65	4.36	4.20	3.97	--
25	<b>109-9546</b> ●	5.86	5.50	5.27	4.95	--
<b>Dual Row Socket</b>						
10	<b>109-9551</b> ●	2.70	2.54	2.41	2.28	--
20	<b>109-9552</b> ●	5.01	4.69	4.52	4.26	--
40	<b>109-9554</b> ●	10.06	9.44	9.05	8.53	--
50	<b>109-9555</b> ●	11.88	11.13	10.68	10.09	--

No. of Ways	Order Code	1+	25+	Price Each	100+	250+	+
<b>Single Row Header</b>							
5	109-9560	1.04	0.98	0.94	0.88	--	--
10	109-9561	2.08	1.95	1.89	1.79	--	--
20	109-9562	4.17	3.91	3.74	3.55	--	--
25	109-9563	5.24	4.88	4.69	4.43	--	--
<b>Dual Row Header</b>							
10	109-9564	2.08	1.95	1.89	1.79	--	--
20	109-9566	4.17	3.91	3.74	3.55	--	--
40	109-9567	8.33	7.81	7.52	7.10	--	--
50	109-9568	10.42	9.77	9.37	8.85	--	--

**M52 - Series, Surface Mount Headers and Sockets**



Single row header



Dual row header

- 1.27mm pitch
- 2.54mm row spacing on dual row products



Housings	Thermoplastic (UL94V-0)	Contact resistance	40Ω max
Contacts	Copper Alloy, plated Gold	Insulation resistance	1000MΩ min
Temperature Range	-40°C to +105°C	Dielectric Voltage	500Vac min
Current Rating	1A		

Mfrs. List No:	Single row SMT socket, 4.6mm High	M52-505xx45
	Dual row SMT socket 3.55mm high	M52-515xx45
	Single row SMT header	M52-04000Pxx45
	Dual row SMT header	M52-04000Sxx45

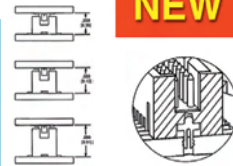
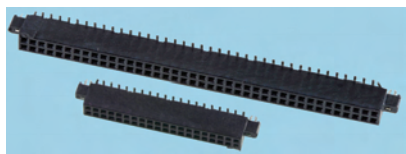
Where xx = Dual row products, No. of pins on 1 side of connector eg. 05 for 10 way

419374

No. of Ways	Order Code	1+	25+	Price Each	100+	250+	+
<b>Single Row Socket</b>							
5	109-9547	2.25	2.12	2.02	1.92	--	--
10	109-9548	4.04	3.78	3.65	3.42	--	--
20	109-9549	6.48	6.09	5.83	5.50	--	--
25	109-9550	8.07	7.58	7.29	6.87	--	--
<b>Dual Row Socket</b>							
10	109-9556	4.49	4.20	4.04	3.81	--	--
20	109-9557	7.26	6.80	6.51	6.15	--	--
40	109-9558	12.92	12.11	11.62	10.97	--	--
50	109-9559	16.11	15.10	14.52	13.70	--	--
<b>Single Row Header</b>							
5	109-9569	1.14	1.07	1.04	0.98	--	--
10	109-9570	2.28	2.12	2.05	1.92	--	--
20	109-9571	4.52	4.23	4.07	3.84	--	--
25	109-9572	5.70	5.34	5.11	4.78	--	--
<b>Dual Row Header</b>							
10	109-9573	2.28	2.12	2.05	1.92	--	--
20	109-9574	4.52	4.23	4.07	3.84	--	--
40	109-9575	9.08	8.50	8.17	7.71	--	--
50	109-9576	11.33	10.61	10.19	9.63	--	--

**AMPMODU 50/50 Grid Connectors**

Board-to-Board Vertical Receptacles and Headers, 1.27mm Pitch



- High density 1.27mm x 1.27mm [.050" x .050"] centerline grid
- Three board-to-board stack heights: 6.35mm [.250"], 8.13mm [.320"] and 9.91mm [.390"]
- Non-protrusive metallic holdowns
- Reliable dual beam receptacle contacts for redundant contact
- Duplex plated receptacle and post contacts; gold plated on mating areas
- Compatible with standard surface-mount processing (VPR and IR)
- Receptacle and header allow for drainage of processing fluids
- Sizes of 10, 20, 30, 40, 50, 80 and 100 positions
- UL recognised (E28476) and CSA certified (LR7189)

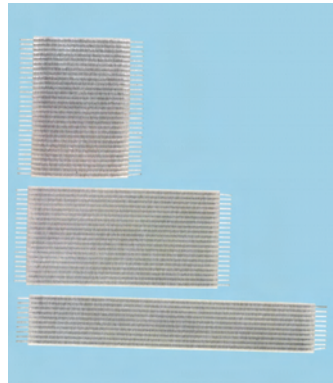
Current Rating	1 - 4A	Pitch	1.27mm
Insulation Resistance	5000MΩ	Withstand Voltage	300V
Operating Temperature	-65°C to +105		

419778

No. Ways	Mfrs. List No.	Order Code	1+	Price Each	10+	50+	100+
<b>Vertical Receptacle</b>							
10	5-104652-1	110-6315	7.16	6.51	5.99	5.99	
20	5-104652-2	110-6316	8.56	7.78	7.13	7.13	
30	5-104652-3	110-6317	11.72	10.68	9.76	9.76	
40	5-104652-4	110-6318	14.65	13.35	12.21	12.21	
50	5-104652-5	110-6319	16.93	15.40	14.13	14.13	
80	5-104652-8	110-6320	23.53	21.39	19.63	19.63	
100	6-104652-0	110-6321	26.37	23.99	21.97	21.97	
<b>Header, 6.35mm Stacking Height</b>							
10	5-104655-1	110-6322	6.18	5.63	5.18	5.18	
20	5-104655-3	110-6323	7.49	6.84	6.25	6.25	
30	5-104655-4	110-6324	9.21	8.37	7.68	7.68	
40	5-104655-5	110-6325	11.07	10.09	9.24	9.24	
50	5-104655-6	110-6327	12.30	11.20	10.25	10.25	
80	5-104655-9	110-6328	15.79	14.35	13.18	13.18	
100	6-104655-1	110-6329	18.39	16.73	15.33	15.33	
<b>Header, 8.13mm Stacking Height</b>							
10	5-104656-1	110-6330	6.18	5.63	5.18	5.18	
20	5-104656-2	110-6331	7.49	6.84	6.25	6.25	
30	5-104656-3	110-6332	9.21	8.37	7.68	7.68	
40	5-104656-4	110-6333	11.07	10.09	9.24	9.24	
50	5-104656-5	110-6334	12.30	11.20	10.25	10.25	
80	5-104656-8	110-6335	15.79	14.35	13.18	13.18	
100	6-104656-0	110-6336	18.39	16.73	15.33	15.33	
<b>Header, 9.91mm Stacking Height</b>							
10	5-104693-1	110-6337	6.18	5.63	5.18	5.18	
20	5-104693-2	110-6339	7.49	6.84	6.25	6.25	
30	5-104693-3	110-6341	9.21	8.37	7.68	7.68	
40	5-104693-4	110-6342	11.07	10.09	9.24	9.24	
50	5-104693-5	110-6343	12.30	11.20	10.25	10.25	
80	5-104693-8	110-6344	15.79	14.35	13.18	13.18	
100	6-104693-0	110-6345	18.39	16.73	15.33	15.33	

**1.27mm Flexstrip Cable**

Cable - Low Cost Nomex



- Provides multi conductor board to board connections
- 1.27mm pitch
- High flexibility
- Stress and vibration resistant
- Nomex insulation material ideal for general purpose applications
- Available from 10 to 30 ways

Current rating	1.6A
Rated voltage	200V ac
Rated temperature	+125 °C
Insulation material	Nomex
Pitch	1.27mm

10 Way width B=11.93mm, 15 Way width B=17.01mm, 20 Way width B=25.9mm, 30 Way width B=38.6mm,

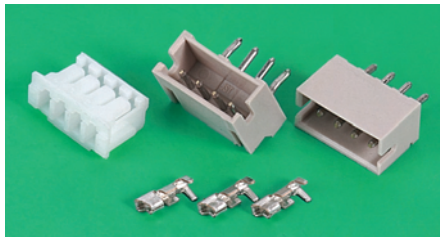
411020

Length mm	Mfrs. List No.	Order Code	1+	Price Each	100+	+
<b>10 Way</b>						
25.4	1 1437130-4	916-3409	3.92000	3.48192	--	--
50.8	2 4-1437131-7	916-3441	4.65000	4.15152	--	--
76.2	3 4-1437132-5	916-3484	5.76000	5.12244	--	--
<b>15 Way</b>						
25.4	1 1-1437130-3	916-3417	5.26000	4.62024	--	--
50.8	2 5-1437131-3	916-3450	6.66000	5.99292	--	--
76.2	3 4-1437132-9	916-3492	8.10000	7.19820	--	--
<b>20 Way</b>						
25.4	1 1-1437130-9	916-3425	6.56000	5.82552	--	--
50.8	2 5-1437131-9	916-3468	8.47000	7.59996	--	--
76.2	3 5-1437132-1	916-3506	10.31000	9.24048	--	--
<b>30 Way</b>						
25.4	1 2-1437130-9	916-3433	9.17000	8.13564	--	--
50.8	2 6-1437131-8	916-3476	12.02000	10.68012	--	--
76.2	3 6-1437132-0	916-3514	14.73000	13.15764	--	--



1.5mm Pitch Connectors

ZH Connector Series



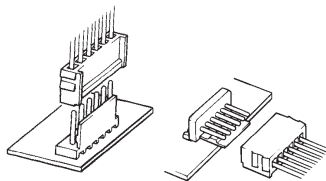
- Compact, low profile design
- 1.5mm pitch
- Mounting height, 5.6mm, thickness, 3.5mm
- Contact retention lances on the housing allow visual confirmation of contact lock-in
- The dimple at the center of the contact ensures positive contact and low resistance
- CSA approved, UL recognised

Current Rating	1A AC, DC	Contact Resistance	20mΩ max
Voltage Rating	50V AC, DC	Insulation Resistance	500MΩ min
Withstanding Voltage	500VAC@1min.	PC board Thickness	0.6 to 1.2mm
Housing	Nylon 66, <b>UL94V-0</b> , natural white		
Contacts	Brass, Copper undercoated, plated		
Contacts	Phosphor Bronze, Tin plated		
Temperature Range	-25°C to +85°C		
Wire mm <sup>2</sup>	Size AWG	Insulation Dia. O.D. (mm)	Mftrs. List No.
0.032-0.08	32-28	0.5-0.9	BZH-003-P0.5
			Order Code 335-7533

No. of Ways	Mftrs. List No.	Order Code	5+	10+	50+	250+
<b>Housing</b>						
2	ZHR-2	335-7545	0.32	0.30	0.29	0.24
3	ZHR-3	335-7557	0.37	0.35	0.33	0.27
4	ZHR-4	335-7569	0.42	0.40	0.37	0.31
6	ZHR-6	335-7570	0.55	0.51	0.49	0.40
<b>Shrouded Header - Top Entry</b>						
2	B2B-ZR	335-7582	1.28	1.22	1.16	0.93
2	B2B-ZR(LF) (SN)	949-1775	1.28	1.22	1.16	0.93
3	B3B-ZR	335-7594	1.47	1.41	1.35	1.09
3	B3B-ZR(LF) (SN)	949-1783	1.47	1.41	1.35	1.09
4	B4B-ZR	335-7600	1.66	1.57	1.48	1.19
4	B4B-ZR(LF) (SN)	949-1791	1.66	1.57	1.48	1.19
6	B6B-ZR	335-7612	2.16	2.05	1.93	1.57
6	B6B-ZR(LF) (SN)	949-1805	2.16	2.05	1.93	1.57
<b>Shrouded Header - Side Entry</b>						
2	S2B-ZR	335-7624	1.01	0.98	0.94	0.85
2	S2B-ZR(LF) (SN)	949-1813	1.01	0.98	0.94	0.85
3	S3B-ZR	335-7636	1.47	1.41	1.35	1.09
3	S3B-ZR(LF) (SN)	949-1821	1.47	1.41	1.35	1.09
4	S4B-ZR	335-7648	1.66	1.57	1.48	1.19
4	S4B-ZR(LF) (SN)	949-1830	1.66	1.57	1.48	1.19
6	S6B-ZR	335-7650	2.16	2.05	1.93	1.57
6	S6B-ZR(LF) (SN)	949-1848	2.16	2.05	1.93	1.57
			10+	50+	100+	500+
Crimp contacts	BZH-003-P0.5	335-7533	0.17	0.16	0.16	0.13
			1+			
Crimp tool	WC-490	335-7934	508.57			

2.0mm Pitch Micro SPOX

Crimp Housings and PCB Headers



- 2mm high density
- 2 to 10 way single row
- Low profile
- Flame retardant white nylon
- Friction lock headers
- Polarised crimp housings
- Tin plated brass pins
- Tinned phosphor bronze terminals
- Spring box 4-point contact
- High pressure contacts
- Not end stackable
- UL recognised

Maximum voltage	125V ac	Temperature range	-40°C to +105°C
Maximum current	1A	Body material	White Nylon <b>UL94V-0</b>
Contact resistance	20mΩ max.	Terminal	Phosphor Bronze Tin
Dielectric strength	500V ac for 60 secs	Engagement force	400g max.
Insulation resistance	1000MΩ	Disengagement force	150g min.

209416

Crimp Terminal Housings



FOR SUITABLE CRIMP TERMINALS see 113-2344

Mftrs. List No. 10-01-4xx4 where xx=No. of ways

Engineering No. 5231

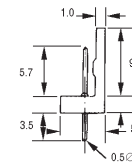
209417

No. of Ways	Order Code	Price Each					
		10+	100+	500+	+	+	+
2	112-5180	0.32	0.21	0.17	--	--	--
3	112-5182	0.34	0.22	0.18	--	--	--
4	112-5183	0.31	0.20	0.16	--	--	--
5	112-5184	0.55	0.35	0.28	--	--	--
6	112-5185	0.62	0.39	0.32	--	--	--
7	112-5186	0.68	0.43	0.35	--	--	--
8	112-5188	0.52	0.33	0.26	--	--	--
10	112-5189	0.84	0.53	0.43	--	--	--

Pin Headers (with Friction Lock)



Straight Header

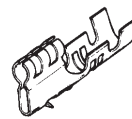


Mftrs. List No. 10-32-1xx3 = Straight Header  
Engineering No. 5233 = Straight Header

209418

No. of Ways	Order Code	10+	100+	500+	+	+	+
<b>Straight Header</b>							
2	112-5260	0.52	0.33	0.27	--	--	--
3	112-5261	0.93	0.59	0.48	--	--	--
4	112-5262	1.03	0.66	0.53	--	--	--
5	112-5263	1.35	0.85	0.69	--	--	--
6	112-5264	1.51	0.95	0.77	--	--	--
7	112-5265	1.80	1.14	0.92	--	--	--
8	112-5267	1.99	1.26	1.02	--	--	--
10	112-5268	2.77	1.75	1.39	--	--	--

Crimp Terminal for Micro SPOX



Wire Size mm <sup>2</sup>	Wire Size AWG	Insulation Diameter	Engineering No.	Mftrs. List No.
0.055-0.336	22-30	max.	5230	08-70-0073

209419

Pack Quantity	Order Code	1+	5+	10+
100	473-066	37.26	29.58	26.56
100	113-2344	35.36	31.12	26.52
1000	473-078	248.40	220.29	187.68
1000	113-2332	236.88	208.45	177.66

2.0mm Pitch Milli-Grid

Crimp Housing and PCB Headers



- High density 2mm grid pattern
- Versatile breakaway unshrouded vertical headers
- Unshrouded headers end stackable
- 4 to 50 way double row
- 0.5mm square header pins
- Gold plated contacts
- Flame retardant to **UL94V-0**
- CSA approved
- UL recognised

Current rating	1A	Body material:	
Voltage rating	125V ac	Crimp housing,	
Contact resistance	25mΩ max.	unshrouded/slip-off headers	Black G.F. Polyester, <b>UL94-0</b>
Dielectric strength	500V ac rms	Shrouded headers	
Insulation resistance	1000MΩ	and sockets	Black G.F. Polyester, <b>UL94-0</b>

209429

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[www.farnell-newarkinone.com.sg](http://www.farnell-newarkinone.com.sg)

The very latest NEW products

**Crimp Terminal Housing**



Non-Polarised  
Mfrs. List No. 51110-xx50  
where xx = No. of ways



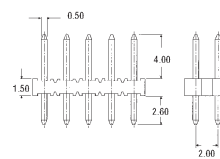
Centre Polarising  
Bump and side  
latches  
Mfrs. List No. 51110-xx51  
where xx = No. of ways



**Straight Pin Header**



PCB hole dia. = 0.9±0.05



Mfrs. List No. 87758-xx16 where xx=No. of ways



209435

No. of Ways	Order Code	10+	100+	250+	500+	+	+
<b>Non-Polarised</b>							
4	510-968	0.34	0.28	0.25	0.19	--	--
6	510-970	0.53	0.41	0.38	0.28	--	--
8	510-981	0.72	0.56	0.50	0.38	--	--
10	510-993	0.87	0.69	0.63	0.50	--	--
14	511-584	1.07	0.87	0.78	0.59	--	--
16	511-018	1.26	0.99	0.90	0.69	--	--
20	511-020	1.56	1.23	1.11	0.87	--	--
<b>Centre-Polarising</b>							
14	511-031	1.07	0.87	0.78	0.59	--	--
16	511-043	1.26	0.99	0.90	0.69	--	--
20	511-596	1.56	1.23	1.11	0.87	--	--

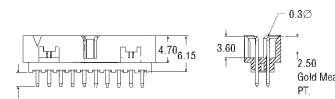
219775

No. of Ways	Order Code	5+	100+	250+	500+	+	+
4	747-2315	0.79	0.62	0.59	0.52	--	--
6	747-2323	0.92	0.73	0.65	0.59	--	--
8	747-2331	1.02	0.82	0.76	0.65	--	--
10	747-2340	1.15	0.92	0.86	0.76	--	--
14	747-2358	1.44	1.12	1.02	0.93	--	--
16	747-2366	1.58	1.21	1.12	0.99	--	--
20	747-2374	2.23	1.75	1.58	1.44	--	--
50	747-2382	4.74	3.72	3.38	2.96	--	--

**Straight Pin Shrouded Header Centre Polarising Slot and Side Latches**



PCB hole dia. = 0.9±0.05



Mfrs. List No. 87831-xx20 where xx=No. of ways



209438

**Crimp Terminal for Milli-Grid™**



Wire Size mm <sup>2</sup>	Wire Size AWG	Insulation Diameter max.	Mfrs. List No.
0.051-0.22	30-24	max.	50394-8100..

209431

Pack Quantity	Order Code	1+	5+	10+
100	511-559	23.62	14.73	12.75
100	977-3851	22.60	16.21	13.67
1000	511-560	162.30	93.69	76.32
1000	973-2845	140.52	103.69	89.91

**Crimp Tool for Milli-Grid**



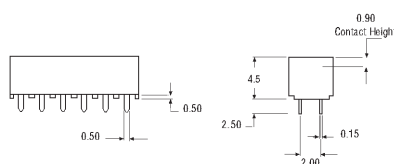
209432

Mfrs. List No.	Order Code	Price Each
69008-0959	511-572	361.97

**Top Entry Sockets**



PCB hole dia. = 0.9±0.05



Mfrs. List No. 87380-xx85 where xx=No. of ways

209434

No. of Ways	Order Code	1+	100+	250+	500+	+	+
6	856-0161	1.40	1.11	0.98	0.88	--	--
8	856-0170	1.66	1.27	1.17	1.04	--	--
14	856-0196	2.86	2.28	2.05	1.79	--	--
16	856-0200	3.09	2.47	2.25	1.95	--	--

**2.0mm Sherlock**

**Sherlock™ 2.0mm Pitch Wire to Board**



The Sherlock system utilizes Molex's proven 50212 terminal, along with a positive lock housing and straight and right angle headers. Originally developed for wire-to-board PC monitor applications, this new 2.0mm pitch system can also be used for other applications that require space savings and secure locking features.

- Low profile and compact
- Positive locking ribs
- Polarisng guide wall
- Low insertion force
- Fully shrouded header
- CSA Approved and UL Recognised

Mfrs. List No: Straight Header = 35362xx10, Right Angle Header = 35363xx10, Socket = 35507xx00, Crimp = 502128100, Crimp Tool = 638111200.  
Where xx = Number of Ways  
Voltage 125 V Dielectric Withstand Voltage 500V ac  
Current, 24/26/28/30 AWG 2.0/1.5/1.0/0.5A Insulation Resistance 1000MR  
Contact Resistance, Max. 20mR Operating Temperature Range -40°C to +105°C



348839

Order Multiple = 10	No. of Ways	Order Code	10+	100+	250+	500+	+
<b>Straight Header</b>							
2		757-1372	0.18	0.15	0.14	0.12	--
2		928-9356	0.18	0.15	0.14	0.12	--
3		757-1399	0.18	0.15	0.14	0.12	--
3		928-9364	0.18	0.15	0.14	0.12	--
4		757-1402	0.18	0.15	0.14	0.12	--
4		928-9372	0.18	0.15	0.14	0.12	--
5		757-1410	0.26	0.22	0.20	0.17	--
5		928-9380	0.26	0.22	0.20	0.17	--
6		757-1429	0.28	0.23	0.21	0.18	--
6		928-9399	0.28	0.23	0.21	0.18	--

Order Multiple=10		Price Each				
No. of Ways	Order Code	10+	100+	250+	500+	+
<b>Straight Header</b>						
8	757-1437‡	0.35	0.29	0.26	0.22	--
8	928-9402●	0.35	0.29	0.26	0.22	--
10	757-1445‡	0.40	0.34	0.31	0.27	--
10	928-9410●	0.40	0.34	0.31	0.27	--
12	757-1453‡	0.44	0.37	0.33	0.29	--
12	928-9429●	0.44	0.37	0.33	0.29	--
2	757-1461‡	0.15	0.12	0.11	0.10	--
2	928-9437●	0.15	0.12	0.11	0.10	--
3	757-1470‡	0.17	0.15	0.13	0.11	--
3	928-9445●	0.17	0.15	0.13	0.11	--
4	757-1488‡	0.18	0.15	0.14	0.12	--
4	928-9453●	0.18	0.15	0.14	0.12	--
5	757-1500‡	0.20	0.17	0.15	0.13	--
5	928-9461●	0.20	0.17	0.15	0.13	--
6	757-1518‡	0.24	0.21	0.18	0.16	--
6	928-9470●	0.24	0.21	0.18	0.16	--
8	757-1526‡	0.35	0.30	0.27	0.23	--
8	928-9488●	0.35	0.30	0.27	0.23	--
10	757-1534‡	0.46	0.38	0.35	0.30	--
10	928-9496●	0.46	0.38	0.35	0.30	--
12	757-1542‡	0.52	0.44	0.40	0.35	--
12	928-9500●	0.52	0.44	0.40	0.35	--
2	757-1550●	0.10	0.09	0.08	0.07	--
3	757-1569●	0.11	0.09	0.08	0.07	--
4	757-1577●	0.13	0.11	0.10	0.09	--
5	757-1585●	0.17	0.15	0.13	0.11	--
6	757-1593●	0.17	0.15	0.13	0.11	--
8	757-1607●	0.22	0.19	0.17	0.15	--
10	757-1623●	0.28	0.23	0.21	0.19	--
12	757-1631●	0.33	0.28	0.28	--	--
Order Multiple=100		100+	500+	1K+		
	757-1640●	0.23	0.20	0.18		
		Price Each				
		1+				
	757-1658	644.91				

**2.0mm Minitek System**

**PCB Headers & Crimp Housings**

**2mm Minitek System**



A range of PCB Headers, receptacles and crimp housings with 2mm x 2mm centrelines. Available in through mount and surface mount versions, with a choice of shrouded or unshrouded headers in both vertical or right angle design. Multiple stacking height options, including bottom entry.



- IDC capability
- Discrete crimp-to-wire

- CSA approved
- UL recognised

Current rating 2A continuous  
Voltage rating 200V ac/dc  
Withstanding voltage 650V rms  
Contact resistance 25mΩ max

Standard housing Glass filled nylon UL94V-0 Black  
High temp housing Glass filled PCT UL94V-0 Black or Cream

Insulation resistance 1000MΩ min

Plating (finish) 0.38um (15uin) min GXT in contact area  
Phosphor Bronze

Temperature range Nylon -40°C to +105°C Pin PCT -55°C to +125°C Mating cycles 100

209489

No. of Ways	Mftrs. List No.	Order Code	5+	25+	50+	100+	+
<b>Vertical Shrouded Headers</b>							
30	90309-530	134-168	5.05	4.68	4.26	3.78	--
<b>Right Angle Unshrouded Header</b>							
30	94271-530	134-235	3.74	3.45	3.18	2.79	--

No. of Ways	Pin Length	Mftrs. List No.	Order Code	5+	25+	50+	100+	+
<b>Vertical Unshrouded Headers</b>								
30	2.0mm	94265-530	134-193	3.12	3.06	2.61	2.46	--

No. of Ways	Pin Length	Mftrs. List No.	Order Code	5+	25+	50+	100+	+
<b>Vertical Receptacles-(board)</b>								
30	4.0mm	91813-330	134-260	3.31	3.06	2.82	2.46	--

No. of Ways	Mftrs. List No.	Order Code	5+	25+	50+	100+	+
<b>Housing</b>							
2x2	69307-004	134-387	0.34	0.31	0.28	0.22	--
2x3	69307-006	134-399	0.53	0.47	0.41	0.34	--
2x4	69307-008	134-405	0.72	0.63	0.56	0.47	--
2x14	69307-028	134-508	2.43	2.16	1.92	1.62	--

Wire Size	Mftrs. List No.	Order Code	50+	100+	500+	1K+	+
<b>Crimp Terminals</b>							
26-30 AWG	77138-001LF	121-1635●	0.20	0.18	0.16	0.14	--
32-36 AWG	77139-001	134-375	0.14	0.13	0.11	0.09	--
							Price Each
							1+
							1,112.66
<b>Tooling</b>							
20-30 AWG	HT151	134-521					1,112.66

**2.0mm Pitch Connectors**

**Pin Headers and Sockets**



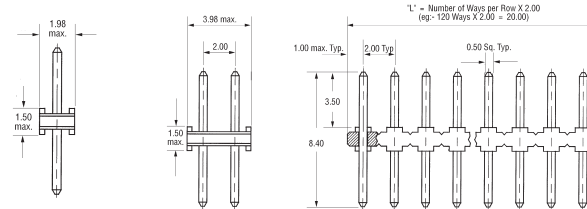
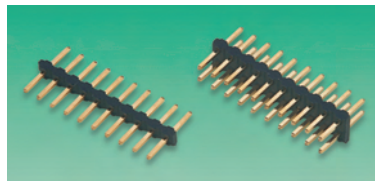
- PCB headers on 2mm pitch, with mating sockets for board to board connections
- Crimp terminals and housing for wire to board connections
- Single and double row phosphor bronze headers 0.5mm square
- Available in up to 50 ways, can be cut to smaller sizes
- Mates with Harwin 2mm socket range

Housing Glass filled thermoplastic, UL94V-0 rated Working voltage 250V dc/250V ac (peak)  
Contacts Phosphor Bronze Insulation resistance 10000MΩ(min.)  
Contact rating 2A max. @ 25°C (for an individual contact) Operating temperature -41°C to +85°C  
1A max. @ 25°C (for an all contacts)

209456

**Pin Headers - Straight**

Gold Plated, SIL and DIL



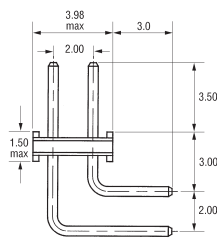
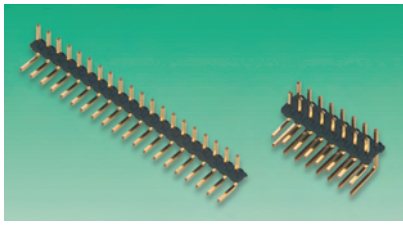
Mftrs. List No. Single row=M22-201xx05, Double row=M22-202xx05, where xx=No. of ways

209454

No. of Ways	Order Code	10+	50+	100+	500+	+
<b>Single Row</b>						
3	671-927●	0.32	0.26	0.22	0.16	--
3	671-927●	0.32	0.26	0.22	0.16	--
4	671-939●	0.44	0.33	0.27	0.24	--
5	671-940●	0.54	0.41	0.33	0.27	--
6	671-952●	0.60	0.47	0.41	0.30	--
8	671-964●	0.80	0.60	0.50	0.41	--
10	671-976●	1.01	0.77	0.63	0.50	--
12	671-988●	1.18	0.90	0.77	0.60	--
		10+	50+	100+	500+	+
3	672-026●	0.67	0.50	0.44	0.33	--
50	672-002●	4.98	3.82	3.21	2.44	--
<b>Double Row</b>						
Order Multiple=10						
3+3	672-026●	0.67	0.50	0.44	0.33	--
3+3	672-026●	0.67	0.50	0.44	0.33	--
4+4	672-038●	0.83	0.63	0.54	0.41	--
5+5	672-040●	1.05	0.81	0.68	0.51	--
6+6	672-051●	1.21	0.93	0.80	0.60	--
8+8	672-063●	1.60	1.22	1.03	0.77	--
10+10	672-075●	2.00	1.54	1.28	0.96	--
12+12	672-087●	2.54	1.93	1.54	1.16	--
		1+	10+	50+	100+	+
50+50	672-105●	10.61	8.02	6.45	4.49	--
50+50	672-105●	10.61	8.02	6.45	4.49	--



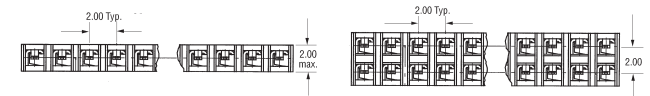
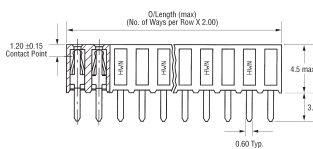
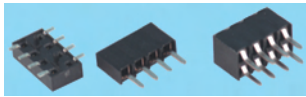
**Pin Headers - 90°**  
Gold Plated, SIL and DIL



Mfrs. List No. Single row=M22-203xx05, Double row=M22-204xx05, where xx=No. of ways  
209453

No. of Ways	Order Code	10+	50+	100+	500+	+
<b>Single Row</b>						
<b>Order Multiple=10</b>						
2	672-117	0.35	0.29	0.22	0.19	--
3	672-129	0.42	0.29	0.26	0.22	--
4	672-130	0.51	0.35	0.32	0.27	--
5	672-142	0.64	0.48	0.39	0.33	--
8	672-154	4.93	--	--	--	--
10	672-166	2.21	1.70	1.41	1.16	--
12	672-178	1.48	1.06	0.87	0.72	--
20	672-180	4.37	--	--	--	--
50	672-191	5.94	4.49	3.63	2.76	--
<b>Double Row</b>						
2+2	672-208	0.68	0.50	0.47	--	--
3+3	672-210	0.80	0.60	0.57	0.45	--
4+4	672-221	3.81	--	--	--	--
5+5	672-233	1.28	0.96	0.77	0.65	--
8+8	672-245	1.96	1.48	1.16	0.95	--
10+10	672-257	2.44	1.83	1.51	1.16	--
12+12	672-269	2.95	2.21	1.77	1.38	--
20+20	672-270	4.82	3.63	2.95	2.26	--
50+50	672-282	12.22	9.21	7.42	5.33	--

**Sockets - Vertical**  
Selective gold/tin plated, SIL and DIL



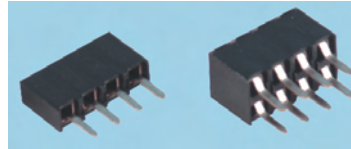
- Single and double row vertical sockets
- Phosphor bronze twin leaf contact
- Closed bottom, anti-wicking feature
- Gold plated contacts, tin plated terminals
- Mate with Harwin 2mm header range
- 2.3mm high SMT single row sockets

Mfrs. List No. Single row=M22-611xx22, Double row=M22-612xx22, where xx=No. of ways  
Double row SMT = M22-636XX42  
209455

No. of Ways	Order Code	10+	50+	100+	500+	+
<b>Single Row</b>						
<b>Order Multiple=10</b>						
3	672-300	0.80	0.60	0.50	0.36	--
4	672-312	0.93	0.71	0.57	0.44	--
5	672-324	1.11	0.83	0.71	0.50	--
6	672-336	1.32	1.00	0.80	0.57	--
10	672-348	2.17	1.64	1.32	0.93	--
<b>Order Multiple=1</b>						
20	672-350	4.30	3.32	2.60	2.08	--
<b>Double Row SMD</b>						
<b>Order Multiple 1</b>						
4+4	118-9099	2.17	2.04	1.93	1.75	--
5+5	118-9100	2.65	2.47	2.35	2.11	--
8+8	118-9102	4.15	3.86	3.69	3.33	--
10+10	118-9103	5.31	--	--	--	--
12+12	118-9106	6.05	5.62	5.38	4.85	--
<b>Double Row DIP</b>						

No. of Ways	Order Code	10+	50+	100+	500+	+
<b>Order Multiple=10</b>						
3+3	672-385	1.60	1.22	0.96	0.71	--
4+4	672-397	1.87	1.41	1.12	0.83	--
5+5	672-403	2.24	1.70	1.50	--	--
6+6	672-415	2.63	1.99	1.60	1.09	--
10+10	672-427	16.09	--	--	--	--
<b>Order Multiple=1</b>						
20+20	672-439	8.68	6.58	5.26	3.69	--
25+25	672-440	27.90	--	--	--	--

**Sockets - Vertical**  
SIL and DIL, 2.4mm Tail Length



- 2.4mm tail length
- Single and double row vertical sockets
- Phosphor bronze twin leaf contact
- Mate with Harwin 2mm header range

Current rating	1A	Contact Material	Phosphor Bronze
Proof Voltage	500V AC/DC	Contact area	Gold
Temperature range	-40°C to +105	Housing	Black Nylon 6T
Contact resistance	20mR	Flammability rating	UL94V-0
Insulation resistance	5000MR min.		

Mfrs. List No. Single row=M22-713xx42, Double row=M22-714xx42, where xx=No. of ways  
422778

No. of Ways	Order Code	1+	10+	50+	100+	+
<b>Single Row</b>						
<b>Order Multiple=10</b>						
3	110-9726	0.80	0.60	0.56	--	--
4	110-9727	0.93	0.71	0.60	--	--
5	110-9729	1.11	0.83	0.71	0.60	--
6	110-9731	1.32	1.00	0.80	0.60	--
10	110-9732	2.17	1.64	1.32	0.93	--
20	110-9733	4.30	3.32	2.60	2.08	--
<b>Dual Row</b>						
3+3	110-9734	1.60	1.22	0.96	0.71	--
4+4	110-9735	1.87	1.41	1.12	0.83	--
5+5	110-9736	2.24	1.70	1.50	--	--
6+6	110-9737	2.63	1.99	1.60	1.09	--
7+7	110-9793	3.09	2.44	1.99	1.63	--
8+8	110-9794	3.42	2.77	2.31	1.95	--
10+10	110-9738	16.09	--	--	--	--
20+20	110-9739	8.68	6.58	5.26	3.69	--
25+25	110-9740	27.90	--	--	--	--

**Crimp Terminal Housings**  
SIL and DIL



- Mates with Harwin 2mm crimps and headers.
- Material: Black Nylon UL94V-0 rated
- Temperature range: -25°C to +90°C

Mfrs. List No. Single row=M22-301xx00, Double row=M22-302xx00, where xx=No. of ways  
209459

No. of Ways	Order Code	10+	50+	100+	500+	+
<b>Single Row</b>						
2	672-452	0.45	0.42	0.35	0.22	--
3	672-464	0.48	0.48	--	--	--
4	672-476	0.59	0.52	0.48	0.35	--
10	672-488	0.91	0.81	0.78	0.59	--
12	672-490	1.07	0.97	0.91	0.72	--
<b>Double Row</b>						
2+2	672-506	0.45	0.35	0.34	--	--
3+3	672-518	0.58	0.45	0.35	0.26	--
4+4	672-520	0.51	0.45	0.42	0.32	--
10+10	672-531	0.93	0.83	0.80	0.61	--
12+12	672-543	1.03	0.93	0.87	0.74	--

**Crimp Terminals**



- Twin leaf phosphor bronze crimps
- Supplied in bags of 100 in convenient strips of 10
- For 24 to 30 AWG wires

Mfrs. List No. M22-6050006 = 672-555, M22-3050022 = 672-567  
209458

100 Per Pack		Price Per Pack			
Finish	Order Code	1+	5+	10+	50+
Tin	672-555▲‡	15.02	13.35	12.68	11.01
Tin	102-2266●	15.02	13.35	12.68	11.01
Gold	672-567▲‡	19.07	16.98	15.83	12.97
Gold	102-2265●	19.07	16.98	15.83	12.97

**2.0mm Datamate**

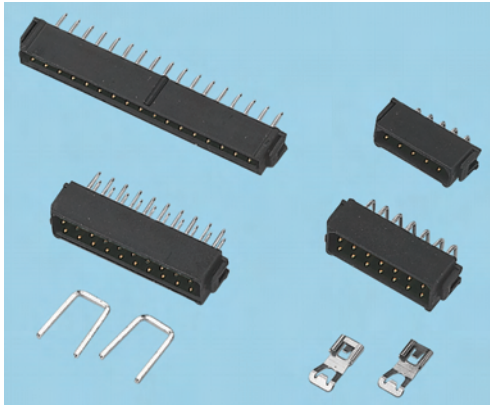


- Suitable for board and board to wire applications
- Single or dual row
- Fully shrouded contacts
- For lead beryllium copper contact suitable for high speed data transmission
- Latches available
- Conforms to requirements of BS9525-F0033
- Polarisated mouldings
- Retaining straps eliminate strain on PC solder joints

Contact rating	3.3A @ 25°C
Working voltage	120V dc/ac peak
Contact resistance	25mΩ max
Insulation resistance	100mΩ max @ 500V dc
Proof voltage	360V dc/ac peak
Housing	Glass Filled Thermoplastic UL94V-0
Contacts,	female Brass shell with beryllium copper inner contact male Phosphor Bronze
Plating	Gold
	Gold
Mating	500 cycles
Crimp barrel size	0.723-0321mm 22-28AWG

210039

**PC Plugs**



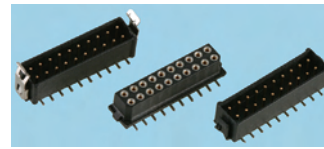
Manufactures list numbers. Where xx = number of ways

SIL Straight	M80-879xx22	DIL Right angled Latches	M80-868xx22
DIL Straight	M80-869xx22		M80F001S
SIL Right angled	M80-878xx22		

210040

No. of Ways	Order Code	2+	10+	50+	100+	+
<b>SIL Straight</b>						
2	978-9600●	1.70	1.38	1.22	1.12	--
3	978-9618●	1.73	1.33	1.24	1.20	--
4	978-9626●	2.41	1.89	1.73	1.60	--
5	978-9634●	2.63	2.12	1.89	1.77	--
6	978-9642●	2.84	2.28	2.05	1.89	--
7	978-9650●	3.07	2.47	2.25	2.02	--
17	978-9669●	5.97	4.78	4.33	3.98	--
<b>DIL Straight</b>						
4+4	978-9677●	4.68	3.72	3.40	3.11	--
5+5	978-9685●	5.18	4.14	3.79	3.43	--
6+6	978-9693●	5.71	4.56	4.14	3.82	--
7+7	978-9251●	6.24	4.98	4.53	4.17	--
8+8	978-9278●	7.48	5.97	5.46	4.98	--
9+9	978-9286●	8.08	6.45	5.87	5.36	--
10+10	978-9707●	8.58	6.87	6.23	5.75	--
<b>SIL Right Angled</b>						
2	978-9715●	3.27	2.60	2.38	2.18	--
3	978-9294●	3.51	2.79	2.54	2.34	--
4	978-9316●	3.73	2.99	2.70	2.50	--
5	978-9324●	3.94	3.18	2.86	2.63	--
6	978-9340●	4.17	3.34	3.05	2.76	--
7	978-9359●	4.41	3.53	3.21	2.95	--
17	978-9367●	7.34	5.87	5.33	4.91	--
<b>DIL Right Angled</b>						
4+4	978-9375●	7.45	5.97	5.39	4.98	--
5+5	978-9391●	8.05	6.45	5.84	5.36	--
6+6	978-9405●	8.65	6.90	6.29	5.78	--
7+7	978-9421●	9.28	7.42	6.74	6.16	--
8+8	978-9430●	10.72	8.54	7.77	7.16	--
10+10	978-9448●	11.92	9.53	8.67	7.96	--
Latches	495-360●	2.91	2.31	2.10	1.92	--

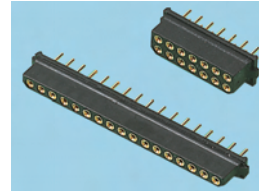
**Surface Mount Plugs and Sockets**



419260

No Ways	Mftrs. List No.	Order Code	1+	10+	50+
<b>Plug DIL Vertical</b>					
4+4	M80-8260842	SMD 110-0731●	10.03	8.92	8.04
<b>Plug DIL Vertical with Locking Latch</b>					
4+4	M80-8280842	SMD 110-0732●	10.64	9.47	8.53
5+5	M80-8281042	SMD 110-0733●	12.43	11.07	9.96
6+6	M80-8281242	SMD 110-0734●	14.22	12.66	11.39
7+7	M80-8281442	SMD 110-0735●	16.01	14.22	12.82
8+8	M80-8281642	SMD 110-0736●	17.80	15.82	14.22
<b>Socket DIL Vertical</b>					
4+4	M80-6810845	SMD 110-0738●	14.42	12.82	11.52
5+5	M80-6811045	SMD 110-0739●	17.61	15.62	14.06

**PC Sockets**



Manufactures list numbers. Where xx = number of ways  
SIL Straight M80-897xx05  
DIL Straight M80-887xx05

210041

No. of Ways	Order Code	2+	10+	50+	100+	+
<b>Single Row</b>						
2	978-9456●	2.54	1.99	1.83	1.67	--
3	978-9464●	3.61	2.89	2.63	2.41	--
4	978-9472●	4.44	3.56	3.24	2.99	--
5	978-9499●	5.54	4.43	4.04	3.69	--
6	978-9502●	6.47	5.17	4.72	4.33	--
7	978-9510●	6.84	5.50	4.98	4.82	--
17	978-9529●	15.27	12.24	11.13	10.71	--
<b>Double Row</b>						
4+4	978-9537●	8.17	6.55	5.94	5.46	--
5+5	978-9545●	9.98	7.99	7.29	6.68	--
6+6	978-9553●	11.92	9.53	8.67	7.96	--
7+7	978-9561●	13.39	10.72	9.73	8.92	--
8+8	978-9570●	15.32	12.26	11.11	10.21	--
9+9	978-9588●	17.13	13.67	12.45	11.43	--
10+10	978-9596●	18.53	14.83	13.45	12.36	--

**Housings and Crimps**



Manufactures list numbers. Where xx = number of ways

SIL Housings	M80F-101xx98S
DIL Housings	M80F-103xx98S

Order Multiple=2	No. of Ways	Order Code	2+	10+	50+	100+	+
<b>SIL</b>							
	2	495-773●	1.84	1.48	1.35	1.22	--
	3	495-785●	2.68	2.15	1.93	1.77	--
	4	495-797●	2.97	2.38	2.18	1.96	--
	5	495-803●	3.67	2.95	2.66	2.47	--
	6	495-815●	4.24	3.40	3.11	2.82	--
	7	495-827●	4.41	3.53	3.21	2.95	--
	17	495-839●	9.28	7.42	6.74	5.17	--
<b>DIL</b>							
	4+4	495-840●	5.97	4.78	4.33	3.98	--
	5+5	495-852●	6.85	5.52	5.04	4.59	--
	6+6	495-864●	8.31	6.64	6.03	5.55	--
	7+7	495-876●	8.85	7.06	6.42	5.87	--
	8+8	495-888●	10.19	8.15	7.38	6.77	--
	9+9	495-890●	11.35	9.08	8.25	7.54	--
	10+10	495-906●	11.86	9.47	8.60	7.90	--

**9**

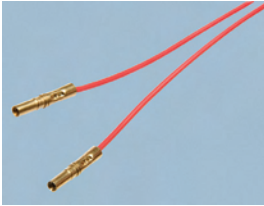
Connectors - PCB

Compliant  
Non-compliant  
RoHS  
+ Limited stock - RoHS replacement available

210022

Order Multiple=10	Mfrs. List No.	Order Code	10+	100+	500+	1K+
<b>CRIMPS</b>						
0.511-3.21 (24-28AWG)	M80F0130005	495-918	0.37	0.30	0.28	0.26
0.644 (22AWG)	M80F0110005	495-920	0.37	0.30	0.28	0.26

**Female Crimped Contacts**



- Supplied with pre-crimped cables
- Choice of cable lengths and sizes
- For use with 2.0mm terminal housings Above
- Twin-beam contacts for high reliability
- Red PTFE equipment wire

**HARWIN**

386456

Order Multiple=10	Contact Size	Length (mm)	Order Code	10+	100+	250+
<b>Crimp Socket to Free End</b>						
22AWG	150		872-9247	2.12	1.86	1.66
24AWG	150		872-9255	2.05	1.79	1.63
26AWG	150		872-9263	2.05	1.79	1.63
28AWG	150		872-9271	2.05	1.79	1.63
22AWG	300		872-9280	2.12	1.86	1.66
24AWG	300		872-9298	2.05	1.79	1.63
26AWG	300		872-9301	2.05	1.79	1.63
28AWG	300		872-9310	2.05	1.79	1.63
<b>Crimp Socket to Crimp Socket</b>						
22AWG	150		872-9328	3.78	3.39	2.99
24AWG	150		872-9336	3.65	3.22	2.90
26AWG	150		872-9344	3.65	3.22	2.90
28AWG	150		872-9352	3.65	3.22	2.90
22AWG	300		872-9360	3.78	3.39	2.99
24AWG	300		872-9379	3.65	3.22	2.90
26AWG	300		872-9387	3.65	3.22	2.90
28AWG	300		872-9395	3.65	3.22	2.90

**Tooling**

- Hand crimp tool to BS5210-3A and MIL M22520/2-01
- Hand tool and Positioner required to crimp terminals
- Separator tool releases latches prior to unplugging

**HARWIN**

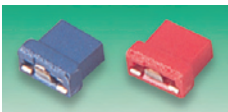
210042

Tooling	Order Code	Price Each
Hand crimp tool	495-931	933.53
Positioner	495-943	209.25
Insertion/removal tool for crimps	NEW 941-5351	327.09
Separation Tool	495-967	66.92

**2.0mm Pitch Jumper Sockets**

Available in 3 Colour Options

**HARWIN**



- Gold plated
- End and side stackable
- High pressure contact
- Tapered entry for pin insertion
- Open top for test probes

H=3.5, W=3.9, D=1.95

Current rating	2A @ 25°C	Housing	Glass Filled Thermoplastic UL94V-0
Contact resistance	30mΩ max.	Contacts	Beryllium Copper, Gold plated
Temperature range	-40°C to +85°C	Mating cycles	300
Insertion/Withdrawal force	4.5N/0.6N		

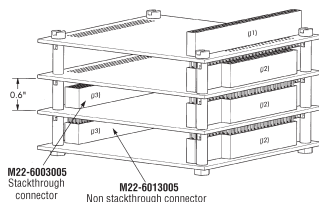
209428

25 Per Pack	Colour	Mfrs. List No.	Order Code	1+	5+	10+	50+	+
Blue	M22-1910005	510-920		16.82	13.74	11.20	7.32	--
Black	M22-1900005	510-932		16.82	13.74	11.20	7.32	--
Red	M22-1920005	510-944		17.30	14.16	11.52	7.51	--

**2.0mm Pitch PC/104+ Connectors**

**Bus Connectors**

**HARWIN**



M22-6003005 Stackthrough connector  
M22-6013005 Non stackthrough connector

- PC/104 Plus is an industry standard for PC applications
- Embedded systems designers can reduce costs risks and lead times
- Dedicated and embedded PC architecture is an accepted platform for:
  - Vending Machines
  - Medical equipment
  - Laboratory instruments
  - Test equipment
  - Communication devices

PC/104 and the PC/104 logo are trademarks of the PC/104 consortium.

209492

**Bus Connectors**



- 120 way 4 rows of 30 contacts
  - Combined with PC/104 supports PCI Bus
- PC/104 and the PC/104 logo are trademarks of the PC/104 consortium.

Current rating	1A	Housings	High Temperature Nylon UL94V-0
Voltage proof	500V ac	Contacts	Phosphor Bronze
Contact resistance	20mΩ max.	Finish	Gold Flash Over Nickel
Insulation resistance	5000MΩ min.	Average insertion force	103.2g (1N) per contact
Temperature range	-40°C to +105°C	Average withdrawal force	81.9g (0.8N) per contact

219785

120 Way	Mfrs. List No.	Order Code	1+	10+	100+
Stackthrough	M22-6003005	360-004	20.39	18.14	16.47
Non-stackthrough	M22-6013005	360-030	19.18	17.05	15.49
Pin header	M22-6023042	124-9051	11.57	10.29	9.30
Pin header receptacle	M22-6033042	124-9052	9.84	8.76	7.93
Shroud	M22-6043098	360-132	4.17	3.63	3.31

**2.5mm Pitch Micro SPOX**

**2.5mm Pitch Spox™ Connectors**



- Low-profile design accommodates height constraints
- Fully shrouded housing to protect contacts

**NEW**

- 2 to 10 ways
- Friction lock
- UL and CSA approved

Mfrs. List No. Crimp housing = 50375xx3, Vertical header = 22035xx5, R/A header = 22057xx5, where xx=No. of ways

Maximum voltage	250V ac
Maximum current	3A
Contact resistance	20mΩ max.
Mating cycles	30MΩ
Temperature range	-40°C to +105°C
Body material	Glass-filled PA Polyamide (Nylon) 6/6
Terminal	Brass (CuZn) Tin

418942

Order Multiple=10	No. of Ways	Order Code	10+	100+	250+	500+	+	+
<b>Crimp Housing</b>								
2		997-9549	0.14	0.13	0.12	0.11	--	--
3		997-9557	0.34	0.31	0.29	0.26	--	--
4		997-9565	0.15	0.14	0.13	0.12	--	--
5		997-9573	0.24	0.22	0.21	0.18	--	--
6		997-9581	0.52	0.48	0.45	0.40	--	--
8		997-9590	0.60	0.56	0.52	0.46	--	--
10		997-9603	0.45	0.42	0.39	0.34	--	--
<b>Vertical Header</b>								
2		997-9611	0.40	0.38	0.35	0.31	--	--
3		997-9620	0.42	0.39	0.36	0.32	--	--
4		110-4204	0.46	0.43	0.39	0.33	--	--
5		997-9638	0.54	0.51	0.47	0.42	--	--
6		997-9646	0.35	0.32	0.30	0.26	--	--
8		997-9654	0.91	0.85	0.78	0.68	--	--
10		997-9662	0.53	0.49	0.46	0.40	--	--
<b>90° Header</b>								
2		997-9670	0.57	0.53	0.49	0.44	--	--
3		997-9689	0.63	0.58	0.54	0.48	--	--
4		997-9697	0.81	0.75	0.72	0.61	--	--
5		997-9700	1.01	0.94	0.88	0.78	--	--
6		997-9719	0.32	0.30	0.28	0.24	--	--
8		997-9727	0.57	0.53	0.49	0.44	--	--
10		997-9735	0.59	0.54	0.51	0.45	--	--
<b>Price Per Pack of 100</b>								
Crimp contacts			1+	5+	10+	100+		
8701040		997-9530	13.25	11.95	11.46	10.94		
Crimp Tool			1+					
11010194		997-9743	755.75					



2.5mm Pitch Connectors

Stocko Connector System  
RFK2 Series



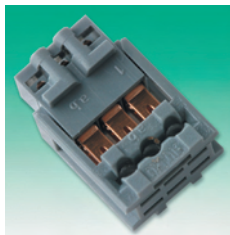
- 2.5mm pitch single in line, through hole vertical PCB Headers and Sockets
- A Rugged IDC or Discrete wire connector system.
- Latching mechanism gives secure "lock in" between header and socket and prevents backout occurring

Maximum Voltage 1500V ac      Housing PC - VO  
 Working Temperature Range -40°C to 115°C      Pitch 2.5mm  
 Contact plating Tin      Wire size 24AWG Stranded or solid conductor  
 Contact Material Phosphor Bronze

333935

No of Ways.	Mfrs. List No.	Order Code	1+	10+	50+	100+
<b>2.5mm Socket</b>						
2	MKFL13262-6-0-202	114-1852	9.50	8.98	8.46	8.24
3	MKFL13263-6-0-303	114-1853	8.66	8.20	7.71	7.52
4	MKFL13264-6-0-404	114-1854	11.07	10.45	9.83	9.57
5	MKFL13265-6-0-505	114-1856	11.85	11.16	10.51	10.25
6	MKFL13266-6-0-606	114-1857	13.67	12.89	12.14	11.85
8	MKFL13268-6-0-808	114-1858	14.39	13.74	12.92	12.60
9	MKFL13269-6-0-909	114-1859	16.41	15.49	14.58	14.22
10	MKFL13270-6-0-1010	114-1860	18.29	17.25	16.24	15.85
<b>PCB Header</b>						
2	MKS1851-6-0-202	439-7952	5.08	4.82	4.52	4.39
2	MKS1851-6-0-202	117-2828	5.08	4.82	4.52	4.39
3	MKS1853-6-0-303	114-1861	4.88	4.59	4.33	4.23
4	MKS1854-6-0-404	114-1862	5.27	4.98	4.69	4.56
5	MKS1855-6-0-505	113-4508	5.79	5.47	5.14	5.01
6	MKS1856-6-0-606	439-7990	6.44	6.09	5.73	5.60
6	MKS1856-6-0-606	117-4959	6.44	6.09	5.73	5.60
8	MKS1858-6-0-808	439-8014	8.40	7.91	7.45	7.29
9	MKS1859-6-0-909	439-8026	8.66	8.20	7.71	7.52
10	MKS1860-6-0-1010	439-8038	8.92	8.40	7.91	7.71
10	MKS1860-6-0-1010	117-4960	8.92	8.40	7.91	7.71

Card Edge Socket



- Card edge connector eliminates the need for a PCB mounted header
- 2.5mm pitch single in line, through hole vertical PCB Headers and Sockets
- A Rugged IDC or Discrete wire connector system.

Maximum Voltage 1500V ac      Housing PC - VO  
 Working Temperature Range -20°C to 120°C      Pitch 2.5mm  
 Contact plating Tin      Wire size 24AWG Stranded or solid conductor  
 Contact Material Phosphor Bronze

333936

No. Poles	Mfrs. List No.	Order Code	1+	10+	50+	100+
3	MKFL13473-6-0-303	439-8040	10.19	9.73	9.18	8.92
4	MKFL13474-6-0-404	439-8051	11.69	11.16	10.48	10.22
5	MKFL13475-6-0-505	439-8063	12.66	12.04	11.33	11.07
6	MKFL13476-6-0-606	439-8075	13.31	12.73	11.95	11.65
7	MKFL13477-6-0-707	439-8087	14.39	13.74	12.92	12.60
8	MKFL13478-6-0-808	439-8099	15.33	14.55	13.70	13.35
10	MKFL13480-6-0-1010	439-8105	17.15	16.41	15.43	15.07

2.5mm Pitch KK Connectors

- Max 2.5A
- Same specification as the 0.1" (2.54) pitch connectors
- For 0.1" (2.54mm) pitch SEE PAGE 406

Maximum voltage 250V ac      Body material White Nylon UL94V-0  
 Maximum current 2.5A      Terminal Tin  
 Contact resistance 20mΩ max.      Engage force per circuit 2  
 Dielectric strength 1500kV RMS      Disengage force per circuit 0.5  
 for 60 secs  
 Temperature range -40°C to +105°C

219773

Crimp Terminal Housing (with locking ramp)



Mfrs. List No. 22-01-1xx3, where xx=No of ways. Engineering No. 5051-M



219774

No. of Ways	Order Code	Price Each					
		10+	100+	250+	500+	+	+
2	143-092	0.41	0.31	0.28	0.22	--	--
3	143-093	0.47	0.38	0.31	0.25	--	--
4	143-094	0.47	0.38	0.34	0.25	--	--
5	257-412	0.50	0.41	0.38	0.28	--	--
6	143-095	0.59	0.47	0.41	0.31	--	--
7	NEW 997-9506	0.75	0.58	0.51	0.46	--	--
8	143-096	0.69	0.53	0.50	0.38	--	--
9	NEW 997-9514	0.85	0.68	0.60	0.55	--	--
10	143-097	0.78	0.63	0.56	0.44	--	--
12	257-424	0.90	0.72	0.66	0.50	--	--
15	NEW 997-9522	1.17	0.94	0.88	0.72	--	--

Crimp Terminal



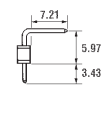
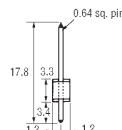
Wire Size mm<sup>2</sup> 0.055-0.336      Wire Size AWG 22-30      Insulation Diameter 0.062-1.57      Engineering No. 4809      Mfrs. List No. 08-50-0032.



209412

Pack Quantity	Order Code	Price Per Pack		
		1+	5+	10+
100	143-116‡	11.43	10.44	10.11
100	977-3789	12.30	10.82	9.22
1000	143-201‡	100.09	94.05	89.88
1000	973-1474	100.09	88.37	70.30

Square Pin Headers



PCB hole dia. = 1.19±0.05

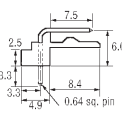
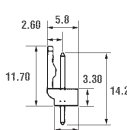
Mfrs. List No. 22-03-1xx2 = Straight Header      Engineering No. 3022-B = Straight Header  
 22-05-1xx1 = 90° Header      3094 = 90° Header  
 where xx = No. of ways



209420

No. of Ways	Order Code	Price Each					
		10+	100+	250+	500+	+	+
<b>Straight Header</b>							
3	143-099‡	1.04	0.84	0.78	0.59	--	--
3	973-0893	1.19	0.75	0.61	--	--	--
4	143-100‡	1.14	1.02	0.93	0.80	--	--
4	973-0907	1.67	1.05	0.85	--	--	--
6	143-101‡	1.68	1.32	1.20	1.02	--	--
6	973-0915	2.11	1.33	1.08	--	--	--
8	143-102‡	2.13	1.65	1.50	1.11	--	--
8	973-0923	2.31	1.46	1.16	--	--	--
10	143-103‡	2.82	2.22	2.01	1.56	--	--
10	973-0931	2.44	1.54	1.23	--	--	--
12	257-436‡	2.32	2.25	2.07	1.56	--	--
12	973-2586	2.87	1.81	1.44	--	--	--
<b>90° Header</b>							
4	146-701‡	1.47	1.14	1.05	0.90	--	--
4	973-1687	1.87	1.18	0.95	--	--	--
5	146-702‡	1.59	1.26	1.11	0.97	--	--
5	973-1695	2.03	1.28	1.03	--	--	--
6	146-703‡	1.65	1.32	1.20	0.88	--	--
6	973-1709	1.82	1.15	0.93	--	--	--
8	146-704‡	2.15	1.68	1.53	1.14	--	--
8	973-1717	2.15	1.36	1.08	--	--	--
10	146-705‡	2.43	1.89	1.74	1.32	--	--
10	973-1725	2.68	1.69	1.35	--	--	--

Square Pin Headers (with Friction Lock)



PCB hole dia. = 1.19±0.05

Mfrs. List No. 22-04-1xx1 = Straight Header      5045A = Straight Header  
 22-05-1xx2 = 90° Header      5046A = 90° Header  
 where xx = No. of ways



209420



209425

No. of Ways	Order Code	Price Each					
		5+	100+	250+	500+	+	+
<b>Straight Header</b>							
2	143-104‡	0.78	0.63	0.56	0.44	--	--
2	973-0940●	0.92	0.58	0.47	--	--	--
3	143-105‡	0.44	0.34	0.31	0.26	--	--
3	973-0958●	0.63	0.40	0.32	--	--	--
4	143-106‡	1.13	0.90	0.84	0.63	--	--
4	973-0966●	1.34	0.85	0.69	--	--	--
5	112-5141●	1.63	1.03	0.83	--	--	--
6	143-107‡	0.84	0.66	0.59	0.51	--	--
6	973-0974●	1.22	0.77	0.62	--	--	--
7	NEW 997-9441●	2.80	2.21	1.24	1.07	--	--
8	143-108‡	1.84	1.44	1.32	0.99	--	--
8	973-0982●	2.13	1.34	1.09	--	--	--
9	NEW 997-9450●	3.06	2.44	2.21	1.92	--	--
10	143-109‡	1.32	1.02	0.93	0.81	--	--
10	973-0990●	1.68	1.06	0.86	--	--	--
12	112-5142●	3.18	2.01	1.59	--	--	--
15	NEW 997-9468●	4.07	3.22	2.93	2.57	--	--
<b>90° Header</b>							
2	143-110‡	1.23	0.93	0.87	0.66	--	--
2	973-1008●	1.47	0.93	0.75	--	--	--
3	143-111‡	1.59	1.26	1.11	0.87	--	--
3	973-1016●	1.93	1.22	0.99	--	--	--
4	143-112‡	1.87	1.47	1.32	1.02	--	--
4	973-1024●	2.25	1.42	1.13	--	--	--
5	257-461‡	2.12	1.65	1.50	1.11	--	--
5	973-2594●	2.25	1.42	1.13	--	--	--
6	143-113‡	2.25	1.74	1.59	1.23	--	--
6	973-1032●	2.72	1.72	1.37	--	--	--
7	NEW 997-9476●	1.76	1.43	1.24	1.04	--	--
8	143-114‡	2.56	2.01	1.80	1.38	--	--
8	973-1040●	2.95	1.86	1.48	--	--	--
9	NEW 997-9484●	2.25	1.76	1.63	1.43	--	--
10	143-115‡	2.53	1.98	1.80	1.35	--	--
10	973-1067●	3.20	2.02	1.61	--	--	--
12	257-473‡	3.37	2.64	2.40	1.80	--	--
12	973-2608●	3.88	2.45	1.95	--	--	--
15	NEW 997-9492●	2.99	2.41	2.21	1.92	--	--

**Crimp Tool for 2.5mm and 2.54mm Terminals**



Ratchet type

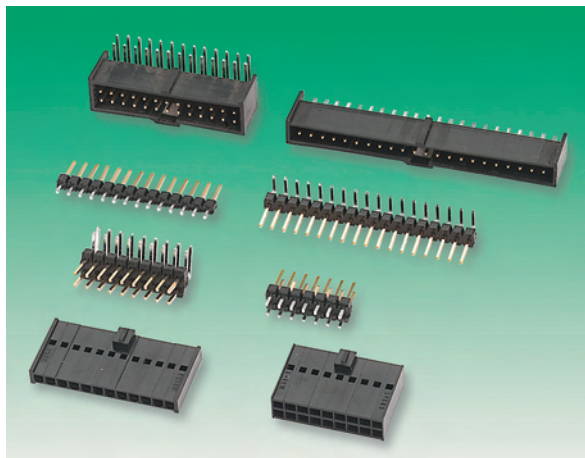
- Suitable for crimping KK terminals 4809, 22-28 AWG.
- Ratchet type has contact retaining bar, supplied with full instructions

209414

Tool Type	Mfrs. List No.	Order Code	Price Each
Ratchet	69008-0956	285-511	471.09

**2.54mm Pitch Pin Headers and Sockets**

**C-Grid III™**



- Versatile 2.54mm pitch modular interconnection system
- Meets **DIN41651** and **HE13/14** standards
- Fully intermateable/interchangeable with Molex QF50 product range
- Not for use with Molex C-Grid SL components
- **UL & CSA** Approved
- **UL** recognised

Voltage	350V	Temperature	-55°C to 105°C
Current	3A		
Contact resistance	20mΩ max		
Insulation resistance	5000MΩ min		
Headers	Polyphenylene Oxide UL94V-1		
Housings	Polyphenylene Oxide UL94V-1		

Series	Description
90119	Crimps
90123	Single row housings with 2 polarising lugs
90156	Single row housings with friction lock
90142	Dual row housing with friction lock
90120	Single row vertical headers
90121	Single row right angled headers
90131	Dual row straight headers
90122	Dual row right angled headers
90059	Shunts
90136	Single row vertical shrouded headers with friction lock
90130-1***	Dual row vertical shrouded headers with friction lock

209512

**Housings**

No. of ways	Order Code	Price Each			
		2+	10+	50+	100+
<b>90123 Series - Single Row Housing - 2 Polarising Lugs</b>					
2	329-1327●	0.84	0.81	0.75	0.69
3	329-1339●	0.90	0.87	0.81	0.75
4	329-1340●	0.97	0.90	0.87	0.78
6	329-1352●	1.03	0.96	0.93	0.84
10	329-1376●	1.13	1.08	1.02	0.93
12	329-1388●	1.23	1.14	1.08	0.99
14	329-1390●	1.28	1.23	1.14	1.02
15	329-1406●	1.34	1.29	1.23	1.08
18	329-1418●	1.40	1.35	1.29	1.14
20	329-1420●	1.47	1.41	1.32	1.20
24	329-1431●	1.53	1.47	1.38	1.26
<b>90156 Series - Single Row Housing - Friction Lock</b>					
2	329-1443●	0.84	0.81	0.75	0.69
3	329-1455●	0.90	0.87	0.81	0.75
4	329-1467●	0.97	0.90	0.87	0.78
6	329-1479●	1.03	0.96	0.93	0.84
8	329-1480●	1.07	1.02	0.99	0.90
10	329-1492●	1.13	1.08	1.02	0.93
12	329-1509●	1.23	1.14	1.08	0.99
14	329-1510●	1.28	1.23	1.14	1.02
15	329-1522●	1.34	1.29	1.23	1.08
18	329-1534●	1.40	1.35	1.29	1.14
20	329-1546●	1.47	1.41	1.32	1.20
22	329-1558●	1.53	1.47	1.38	1.26
<b>90142 Series - Dual Row Housing - Friction Lock</b>					
6	329-1560●	1.13	1.08	1.02	0.93
8	329-1571●	1.23	1.14	1.08	0.99
10	329-1583●	1.28	1.23	1.14	1.02
12	329-1595●	1.34	1.29	1.23	1.08
14	329-1601●	1.37	1.32	1.26	1.11
16	329-1613●	1.47	1.41	1.32	1.20
18	329-1625●	1.53	1.47	1.38	1.26
20	329-1637●	1.59	1.50	1.44	1.32
22	329-1649●	1.65	1.56	1.50	1.35
24	329-1650●	1.72	1.62	1.56	1.41
26	329-1662●	1.78	1.68	1.59	1.44
30	329-1674●	1.84	1.74	1.65	1.50
<b>Headers - Single Row</b>					
<b>90120 Series - Single Row Vert Headers</b>					
2	973-3302●	0.31	0.25	0.22	--
3	973-3310●	0.46	0.37	0.32	--
4	973-3329●	0.62	0.50	0.43	--
6	973-3337●	0.94	0.76	0.66	--
8	973-3345●	1.24	1.00	0.86	--
10	973-3353●	1.34	1.25	1.08	--
12	973-3361●	1.62	1.50	1.29	--
14	973-3370●	1.88	1.75	1.51	--
15	973-3388●	2.02	1.88	1.61	--
18	973-3396●	2.60	2.42	2.08	--
20	973-3400●	2.69	2.50	2.15	--
22	973-3426●	2.41	2.24	1.93	--
24	973-3434●	3.23	3.00	2.58	--
<b>90121 Series - Single Row RA Header</b>					
2	973-3442●	0.32	0.26	0.22	--
3	973-3450●	0.46	0.37	0.32	--
4	973-3469●	0.62	0.50	0.43	--
6	973-3477●	0.94	0.76	0.66	--
8	973-3485●	1.24	1.00	0.86	--
10	973-3493●	1.34	1.25	1.08	--
12	973-3507●	1.61	1.50	1.29	--
14	973-3515●	1.88	1.75	1.51	--

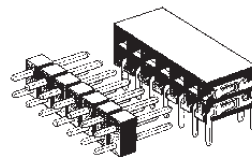
Housings		Price Each			
No. of ways	Order Code	2+	10+	50+	100+
<b>90121 Series - Single Row RA Header</b>					
15	973-3523	2.02	1.88	1.62	--
18	973-3531	2.60	2.42	2.08	--
20	973-3540	2.70	2.51	2.16	--
22	973-3558	2.62	2.44	2.10	--
24	973-3566	3.51	3.26	2.81	--

Headers - Dual Row		Price Each			
No. of ways	Order Code	2+	10+	100+	+
<b>90131 Series - Dual Row - Straight</b>					
6	973-3574	0.47	0.44	0.38	--
8	973-3582	0.59	0.55	0.47	--
10	973-3590	0.73	0.68	0.59	--
12	973-3604	0.88	0.82	0.70	--
14	973-3612	1.03	0.96	0.82	--
16	973-3620	1.17	1.09	0.94	--
18	973-3639	2.43	2.26	1.94	--
20	973-3647	2.70	2.51	2.16	--
22	973-3655	3.17	2.95	2.54	--
24	973-3663	3.23	3.00	2.58	--
26	973-3671	1.37	1.27	1.09	--
30	973-3680	4.04	3.76	3.23	--
<b>90122 Series - Dual Row - RA</b>					
8	973-3698	1.07	1.00	0.86	--
10	973-3701	1.37	1.27	1.09	--
12	973-3710	1.61	1.50	1.29	--
14	973-3728	1.88	1.75	1.51	--
16	973-3736	2.16	2.00	1.72	--
20	973-3744	2.70	2.51	2.16	--
24	973-3752	3.23	3.00	2.58	--
26	973-3760	3.50	3.25	2.80	--
30	973-3779	4.04	3.76	3.23	--

Shrouded Headers		Price Each			
<b>90136 Series - Single Row Vert Friction Lock</b>					
2	973-3795	0.67	0.54	0.46	--
3	973-3809	0.85	0.68	0.59	--
4	973-3817	1.17	0.95	0.82	--
6	973-3825	1.19	1.11	0.95	--
8	973-3833	1.85	1.72	1.48	--
10	973-3841	1.78	1.68	1.45	--
12	973-3850	2.11	1.97	1.69	--
15	973-3868	2.57	2.39	2.06	--
22	973-3876	4.26	3.96	3.41	--
<b>90130-1*** Series - Dual Row Vertical Friction Lock</b>					
6	973-3884	1.53	1.42	1.22	--
8	973-3892	1.72	1.63	1.40	--
10	973-3906	1.90	1.85	1.59	--
12	973-3914	2.21	2.05	1.77	--
14	973-3922	2.44	2.27	1.95	--
16	973-3930	2.67	2.48	2.13	--
18	973-3949	3.73	3.47	2.98	--
20	973-3957	3.12	2.90	2.50	--
24	973-3965	3.89	3.62	3.11	--
26	973-3973	5.39	5.01	4.31	--
30	973-3981	5.80	5.40	4.64	--
<b>90130-0*** Series - Dual Row RA Friction Lock</b>					
6	973-3990	1.67	1.55	1.33	--
8	973-4007	1.93	1.80	1.55	--
10	973-4015	2.19	2.04	1.76	--
12	973-4023	2.45	2.28	1.96	--
14	973-4031	2.71	2.52	2.17	--
16	973-4040	2.97	2.77	2.38	--
18	973-4058	3.16	2.94	2.53	--
20	973-4066	3.50	3.25	2.80	--
26	973-4074	5.54	5.15	4.43	--
30	973-4082	6.39	5.94	5.11	--
<b>Order Multiple = 10</b>					
<b>Black Shunt</b>					
90059-0007	973-3787	0.36	0.34	0.29	--

Order Multiples = 20		Price Each				
Mfrs. List No.	Description	Order Code	20+	60+	240+	480+
<b>Crimps</b>						
90119-2110.	22 - 24AWG	329-1297	0.25	0.22	0.19	0.18
90119-2121.	26 to 28AWG	329-1303	0.25	0.22	0.19	0.18
15-04-0292.	Universal polarising pin	329-1315	0.28	0.25	0.22	--
<b>Order Multiple = 1</b>						
<b>Tooling</b>						
69008-0985	Parallel action crimp hand tool	329-2526	428.10			
69008-0003	Extraction tool	329-2538	89.91			
69008-0140	Insertion Tool	329-2540	36.00			

Pin Headers and Sockets



- Suitable for board to board connections or wrapping and programming applications using jumper sockets
- Headers are easily cut down to smaller lengths

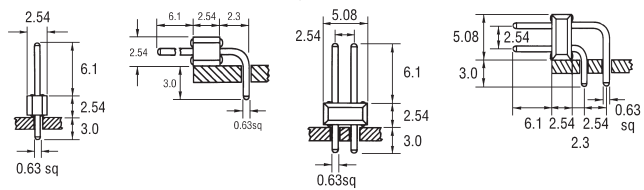
Contact rating	3A	Housings	Black Glass Filled Polyester UL94V-0
Contact resistance	3mΩ	Contacts	Phosphor Bronze
Proof voltage	20V rms	Plating	See individual entries
Insulation resistance	10000MΩ	Mating cycles	50 (tin plating)
Temperature range	-40°C to +105°C		300 (gold plating)

209374

Pin Headers - Tin Plated



Straight double row 90° single row  
Pitch=2.54, PCB hole dia.=1.0



Mfrs List Nos.:  
Straight=M20-999xx06, double row=M20-998xx06, where xx = No. of ways  
90° single row=M20-996xx06, double row=M20-995xx06, where xx = No. of ways

209424

No. of Ways	Order Code	10+	20+	50+	100+	+	+
<b>Straight Single Row</b>							
2	511-705	0.24	0.20	0.17	0.14	--	--
2	102-2247	0.24	0.20	0.17	0.14	--	--
3	511-717	0.33	0.30	0.24	0.17	--	--
3	102-2249	0.33	0.30	0.24	0.17	--	--
4	511-729	0.44	0.36	0.30	0.24	--	--
4	102-2251	0.44	0.36	0.30	0.24	--	--
5	511-730	0.54	0.44	0.36	0.27	--	--
5	102-2253	0.54	0.44	0.36	0.27	--	--
6	511-742	0.63	0.54	0.47	0.33	--	--
6	102-2255	0.63	0.54	0.47	0.33	--	--
8	511-754	0.80	0.67	0.57	0.41	--	--
8	102-2257	0.80	0.67	0.57	0.41	--	--
10	511-766	1.01	0.83	0.71	0.50	--	--
10	102-2261	1.01	0.83	0.71	0.50	--	--
20	511-778	2.00	1.67	1.41	1.03	--	--
20	102-2262	2.00	1.67	1.41	1.03	--	--
		1+	20+	50+	100+	+	+
36	148-533	5.01	4.14	3.98	3.43	--	--
36	102-2264	5.01	4.14	3.98	3.43	--	--
<b>Straight Double Row</b>							
<b>Order Multiple=10</b>							
3+3	511-780	0.71	0.60	0.47	0.33	--	--
3+3	102-2231	0.71	0.60	0.47	0.33	--	--
4+4	511-791	0.87	0.74	0.60	0.44	--	--
4+4	102-2233	0.87	0.74	0.60	0.44	--	--
5+5	511-808	1.07	0.90	0.77	0.54	--	--
5+5	102-2236	1.07	0.90	0.77	0.54	--	--
6+6	511-810	1.21	1.03	0.87	0.63	--	--
6+6	102-2238	1.21	1.03	0.87	0.63	--	--
8+8	511-821	1.60	1.35	1.12	0.83	--	--
8+8	102-2240	1.60	1.35	1.12	0.83	--	--
10+10	511-833	1.97	1.64	1.41	1.00	--	--
10+10	102-2242	1.97	1.64	1.41	1.00	--	--
		1+	25+	50+	100+	+	+
36+36	148-535	9.75	8.73	8.51	7.67	--	--
36+36	102-2244	9.75	8.73	8.51	7.67	--	--
<b>90° Single Row</b>							
36	148-534	9.01	7.67	7.48	6.55	--	--
36	102-2225	9.01	7.67	7.48	6.55	--	--
<b>90° Double Row</b>							
36+36	148-536	11.86	10.34	10.08	8.54	--	--
36+36	102-2223	11.86	10.34	10.08	8.54	--	--

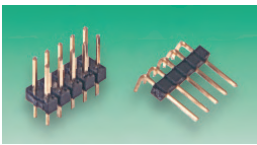
9

Connectors - PCB

Compliant Non-compliant  
RoHS Limited stock - RoHS replacement available



Pin Headers - Gold Plated



Straight double row 90° single row  
Pitch=2.54, PCB hole dia.=0.8

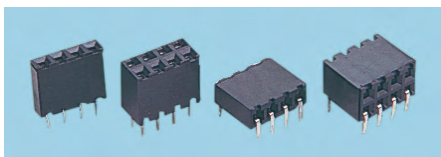
For dimensional information see tin plated headers above

Mftrs. List No.:  
Straight single row = M20-999xx05,  
double row = M20-998xx05,  
90 single row = M20-996xx05,  
double row = M20-995xx05,  
where xx = No. of ways

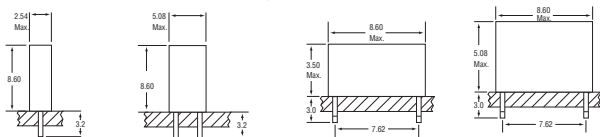
209426

No. of Ways	Order Code	10+	20+	50+	100+	+	+
<b>Straight Single Row</b>							
Order Multiple=10							
2	512-035▲‡	0.30	0.24	0.20	0.17	--	--
2	102-2245●	0.30	0.24	0.20	0.17	--	--
3	512-047▲‡	0.44	0.36	0.30	0.24	--	--
3	102-2248●	0.44	0.36	0.30	0.24	--	--
4	512-059▲‡	0.54	0.47	0.41	0.27	--	--
4	102-2250●	0.54	0.47	0.41	0.27	--	--
5	512-060▲‡	0.67	0.57	0.47	0.33	--	--
5	102-2252●	0.67	0.57	0.47	0.33	--	--
6	512-072▲‡	0.80	0.67	0.57	0.41	--	--
6	102-2254●	0.80	0.67	0.57	0.41	--	--
8	512-084▲‡	1.04	0.87	0.74	0.54	--	--
8	102-2256●	1.04	0.87	0.74	0.54	--	--
10	512-096▲‡	1.28	1.06	0.90	0.67	--	--
10	102-2259●	1.28	1.06	0.90	0.67	--	--
		1+	25+	50+	100+	+	+
36	148-194▲‡	7.01	5.94	5.55	4.75	--	--
36	102-2263●	7.01	5.94	5.55	4.75	--	--
<b>Straight Double Row</b>							
3+3	512-102▲‡	0.87	0.71	0.60	0.44	--	--
3+3	102-2230●	0.87	0.71	0.60	0.44	--	--
4+4	512-114▲‡	1.10	0.90	0.77	0.57	--	--
4+4	102-2232●	1.10	0.90	0.77	0.57	--	--
5+5	512-126▲‡	1.37	1.12	0.96	0.71	--	--
5+5	102-2235●	1.37	1.12	0.96	0.71	--	--
6+6	512-138▲‡	1.57	1.35	1.12	0.80	--	--
6+6	102-2237●	1.57	1.35	1.12	0.80	--	--
8+8	512-140▲‡	2.07	1.73	1.48	1.06	--	--
8+8	102-2239●	2.07	1.73	1.48	1.06	--	--
10+10	512-151▲‡	2.57	2.15	1.80	1.32	--	--
10+10	102-2241●	2.57	2.15	1.80	1.32	--	--
		1+	25+	50+	100+	+	+
36+36	148-195▲‡	14.22	13.23	12.81	11.40	--	--
36+36	102-2243●	14.22	13.23	12.81	11.40	--	--
<b>90° Single Row</b>							
36	512-163▲‡	9.75	9.47	9.18	8.35	--	--
36	102-2224●	9.75	9.47	9.18	8.35	--	--
<b>90° Double Row</b>							
36+36	512-175▲‡	10.75	9.76	9.47	8.70	--	--
36+36	102-2221●	10.75	9.76	9.47	8.70	--	--

Sockets - Tin Plated



Pitch=2.54, PCB hole dia.=0.8



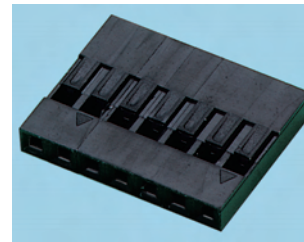
Mftrs. List No.:  
Top entry single row = M20-782xx46, double row = M20-783xx46, where xx = No. of ways  
Side entry single row = M20-789xx46, double row = M20-788xx46, where xx = No. of ways

209427

No. of Ways	Order Code	10+	20+	50+	100+	+	+
<b>Top Entry Single Row</b>							
2	799-1916●	0.72	0.64	0.50	0.43	--	--
3	799-1924●	0.91	0.78	0.67	0.53	--	--
4	799-1932●	1.07	0.88	0.76	0.61	--	--
5	799-1940●	1.24	1.04	0.88	0.71	--	--
10	799-1959●	2.44	2.02	1.73	1.40	--	--
		1+	25+	50+	100+	+	+
20	799-1967●	4.78	4.04	3.42	2.73	--	--
<b>Top Entry Double Row</b>							

No. of Ways	Order Code	10+	20+	50+	100+	+	+
2+2	799-1975●	1.43	1.20	1.01	0.81	--	--
3+3	799-1983●	1.89	1.56	1.30	1.07	--	--
4+4	799-1991●	2.08	1.76	1.50	1.20	--	--
5+5	799-2009●	2.54	2.08	1.79	1.46	--	--
8+8	799-2017●	3.65	3.09	2.60	2.08	--	--
		1+	25+	50+	100+	+	+
10+10	799-2025●	4.78	4.04	3.42	2.77	--	--
20+20	799-2033●	9.60	8.04	6.80	6.77	--	--
<b>Side Entry Single Row</b>							
2	799-2041●	0.91	0.78	0.64	0.54	--	--
3	799-2050●	0.99	0.82	0.73	0.59	--	--
4	799-2068●	1.17	0.94	0.81	0.68	--	--
5	799-2076●	1.40	1.14	0.94	0.81	--	--
6	799-2084●	1.59	1.37	1.14	0.91	--	--
8	799-2092●	2.02	1.66	1.43	1.14	--	--
10	799-2106●	2.60	2.25	1.82	1.53	--	--
		1+	25+	50+	100+	+	+
20	799-2114●	5.11	4.56	3.55	2.93	--	--
<b>Side Entry Double Row</b>							
3+3	799-2122●	2.05	1.69	1.46	1.17	--	--
4+4	799-2130●	2.18	1.79	1.43	1.24	--	--
5+5	799-2149●	2.77	2.31	1.95	1.56	--	--
6+6	799-2157●	3.22	2.70	2.28	1.86	--	--
8+8	799-2165●	4.17	3.48	2.90	2.38	--	--
10+10	799-2173●	5.11	4.30	3.55	2.93	--	--
20+20	799-2181●	10.16	8.62	7.10	5.92	--	--

Crimp Terminal Housings



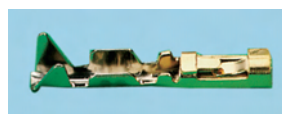
Pitch=2.54, H=14

Mftrs. List No. Single row=M20-106xx00, double row M20-107xx00, where xx=No. of ways

209384

No. of Ways	Order Code	10+	20+	50+	100+	+	+
<b>Single Row</b>							
2	865-606●	0.45	0.42	0.26	0.19	--	--
3	865-618●	0.42	0.35	0.26	0.19	--	--
4	865-620●	0.54	0.44	0.33	0.24	--	--
5	865-631●	0.67	0.54	0.41	0.27	--	--
6	865-643●	0.80	0.63	0.47	0.33	--	--
7	865-655●	0.93	0.77	0.57	0.41	--	--
8	865-667●	1.07	0.87	0.63	0.44	--	--
10	865-679●	1.37	1.06	0.80	0.57	--	--
12	865-680●	1.64	1.32	0.96	0.67	--	--
<b>Double Row</b>							
2+2	865-692●	0.54	0.44	0.33	0.24	--	--
3+3	865-709●	0.80	0.63	0.47	0.33	--	--
4+4	865-710●	1.07	0.87	0.63	0.44	--	--
5+5	865-722●	1.37	1.06	0.80	0.57	--	--
6+6	865-734●	1.64	1.32	0.96	0.67	--	--
7+7	865-746●	1.90	1.51	1.12	0.77	--	--
8+8	865-758●	2.19	1.75	1.33	0.91	--	--
10+10	865-760●	2.71	2.18	1.64	1.09	--	--
12+12	865-771●	3.27	2.60	1.93	1.35	--	--

Crimp Terminals and Polarising Keys



● Polarising keys, brass with tin plating  
● Keys click into sockets and crimp housings  
Insulation diameter = 1.7mm max

219771

Finish	Wire Size AWG	Mftrs. List No.	Order Code	1+	5+	10+
Tin	22-30	M20-1180006	865-783▲‡	12.02	10.18	8.86
Tin	22-30	M20-1180046	102-2220●	12.02	10.18	8.86
Gold	22-30	M20-1180022	865-795▲‡	13.48	11.51	10.02
Gold	22-30	M20-1180042	102-2219●	13.48	11.51	10.02
Polarising Key		M20-003	512-023●	37.79	31.62	26.00

Crimp Tool



**HARWIN**

Mftrs. List No.	Order Code	Price Each
Z20-320	889-260	1+ 613.74

209388

Pin Headers and Sockets

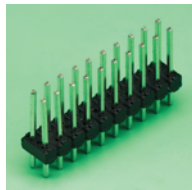
- A range of double row bottom entry sockets and extended pin headers
- Suitable for various applications including vertical stacking pcb's
- Used where space saving is necessary between two boards

Current rating: 1A  
 Contact resistance: 15mΩ  
 Temperature range: -40°C to +105°C  
 Mating cycles: 300

Housing: Black Glass Filled Polyester UL94V-0  
 Contacts: Phosphor Bronze  
 Plating: Selective Tin finish

209483

Extended Headers



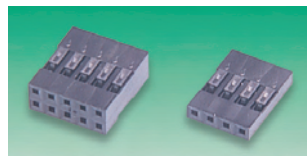
**HARWIN**

Pitch=2.54mm

No. of Ways	Mftrs. List No.	Order Code	10+	20+	50+	100+	+	+
3+3	M20-9970306	621-857▲‡	0.63	0.56	0.51	0.35	--	--
3+3	M20-9970346	102-2226●	0.63	0.56	0.51	0.35	--	--
5+5	M20F9970506	621-869▲‡	0.87	0.77	0.71	0.50	--	--
5+5	M20-9970546	102-2227●	0.87	0.77	0.71	0.50	--	--
8+8	M20-9970806	624-639▲‡	1.41	1.25	1.16	0.80	--	--
8+8	M20-9970846	102-2228●	1.41	1.25	1.16	0.80	--	--
10+10	M20F9971006	624-640▲‡	1.87	1.66	1.53	1.07	--	--
10+10	M20-9971046	102-2229●	1.87	1.66	1.53	1.07	--	--

209484

Mini Latch Housing 'Bergcon'



**FCI**

- For use with highly reliable dual metal Mini-PV contact
- Contact latching in housing
- Available in single and double row versions

Spacing: 2.54mm single row  
 2.54mm 2.54mm double row  
 Material: Black, Modified Polyphenylene Oxide UL94V

Insulation resistance: 100000MΩ min  
 Temperature range: -40°C to +125°C

209446

No. of Ways	Mftrs. List No.	Order Code	5+	25+	50+	100+	+
<b>Single Row</b>							
2	65039-035LF	121-1646●	0.42	0.39	0.36	0.33	--
3	65039-034LF	121-1645●	0.63	0.57	0.54	0.47	--
4	65039-033LF	121-1644●	0.85	0.78	0.68	0.65	--
5	65039-032LF	121-1643●	1.04	1.01	0.88	0.78	--
6	65039-031LF	121-1650●	1.24	1.14	1.04	0.98	--
7	65039-030LF	121-1652●	1.46	1.40	1.20	1.11	--
8	65039-029LF	121-1653●	1.56	1.46	1.27	1.17	--
9	65039-028LF	121-1654●	1.82	1.66	1.46	1.37	--
10	65039-027LF	121-1642●	2.02	1.82	1.66	1.50	--
<b>Double Row</b>							
2+2	65043-035LF	121-1655●	1.46	1.37	1.20	1.07	--
3+3	65043-034LF	121-1656●	1.56	1.46	1.27	1.17	--
4+4	65043-033LF	121-1657●	1.56	1.40	1.24	1.14	--
5+5	65043-032LF	121-1649●	2.02	1.82	1.66	1.50	--
7+7	65043-030LF	121-1648●	2.57	2.28	2.05	1.86	--
8+8	65043-029LF	121-1658●	3.19	2.90	2.64	2.38	--
10+10	65043-027LF	121-1659●	4.04	3.65	3.32	3.03	--

Crimp 'Bergcon' Terminal



**FCI**

- Mini PV terminals for use with 'Bergcon' mini latch housing
- Available in gold or tin

209444

Order Multiple=100	AWG	Mftrs. List No.	Order Code	100+	200+	500+	1K+
28-32 Gold	47711-001		528-535▲‡	0.59	0.56	0.50	0.47
28-32 Gold	47711-001LF		109-7976●	0.63	0.60	0.54	0.50
22-26 Gold	47745-001		528-559▲‡	0.78	0.72	0.66	0.63
22-26 Gold	47745-001LF		109-7977●	0.83	0.77	0.71	0.67
22-26 Tin	47750-000		528-560▲‡	0.44	0.41	0.38	0.34
22-26 Tin	47750-000LF		109-7978●	0.47	0.44	0.41	0.36

Tooling for 'Bergcon' crimps



**Föhrenbach**  
Application Tooling

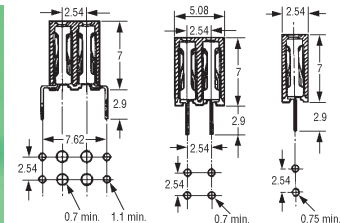
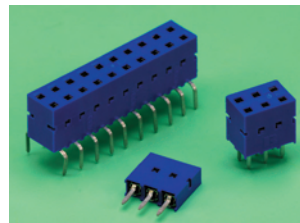
**NEW**

Mftrs. List No. RCY21208

209451

Order Code	Price Each
Crimp Tool 22-26 AWG	1+ 1,263.72
109-6681	

Dubox Vertical Card Connectors



**FCI**

- Low profile (7mm) pcb connector system
- Stackable end to end or side by side
- Top entry single and double row, top/bottom entry double row
- Gold plated contacts
- In accordance with IEC-603-8

Current rating: 3A Max  
 Withstand voltage: 1000Vrms (sea level)  
 Insulation resistance: 100000MΩ minimum  
 Temperature range: -65°C to +125°C

Housing: Glass Filled Polyester UL94V-0  
 Contacts: Phosphor Bronze, gold plating in accordance with IEC603-8

219782

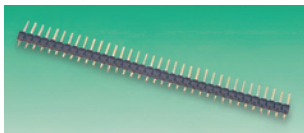
No. of Ways	Mftrs. List No.	Order Code	1+	50+	100+	250+	+
<b>Vertical - Single Row, Top Entry</b>							
3	76341-303	973-490▲‡	1.13	1.02	0.99	0.81	--
3	76341-303LF	109-8033●	1.21	1.09	1.06	0.87	--
4	76341-304	973-506▲‡	1.37	1.26	1.20	0.96	--
4	76341-304LF	109-8034●	1.47	1.35	1.28	1.03	--
5	76341-305	973-518▲‡	1.53	1.38	1.32	1.08	--
5	76341-305LF	109-8035●	1.64	1.48	1.41	1.16	--
6	76341-306	973-520▲‡	1.84	1.65	1.56	1.29	--
6	76341-306LF	109-8036●	1.97	1.77	1.67	1.38	--
7	76341-307	973-531▲‡	2.15	1.92	1.83	1.50	--
7	76341-307LF	109-8037●	2.30	2.05	1.96	1.60	--
8	76341-308	973-543▲‡	2.46	2.22	2.13	1.74	--
8	76341-308LF	109-8038●	2.63	2.38	2.28	1.86	--
9	76341-309	973-555▲‡	2.75	2.49	2.37	1.92	--
9	76341-309LF	109-8039●	2.94	2.66	2.54	2.05	--
10	76341-310	973-567▲‡	3.06	2.76	2.61	2.16	--
10	76341-310LF	109-8040●	3.27	2.95	2.79	2.31	--
11	76341-311	973-579▲‡	3.37	3.03	2.91	2.37	--
11	76341-311LF	109-8042●	3.61	3.24	3.11	2.54	--
12	76341-312	973-580▲‡	3.68	3.27	3.12	2.58	--
12	76341-312LF	109-8043●	3.94	3.50	3.34	2.76	--
14	96341-314	973-609▲‡	4.27	3.87	3.69	3.03	--
14	76341-314LF	109-8045●	4.57	4.14	3.95	3.24	--
15	76341-315	973-610▲‡	4.59	4.11	3.93	3.21	--
15	76341-315LF	109-8046●	4.91	4.40	4.21	3.43	--
<b>Vertical - Double Row, Top Entry</b>							
2 x 2	76342-302	973-622▲‡	1.68	1.50	1.41	1.14	--
2 x 2	76342-302LF	109-8047●	1.80	1.61	1.51	1.22	--
2 x 3	76342-303	973-634▲‡	2.28	2.04	1.92	1.59	--
2 x 3	76342-303LF	109-8048●	2.44	2.18	2.05	1.70	--
2 x 4	76342-304	973-646▲‡	2.75	2.49	2.37	1.92	--

Compliant  
 Non-compliant  
 Limited stock - RoHS replacement available

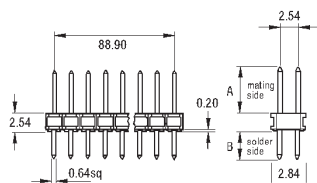
**RoHS**

No. of Ways	Mftrs. List No.	Order Code	1+	50+	100+	250+	+
<b>Vertical - Double Row, Top Entry</b>							
2 x 4	76342-304LF	109-8049	2.94	2.66	2.54	2.05	--
2 x 5	76342-305	973-658	3.06	2.76	2.61	2.16	--
2 x 5	76342-305LF	109-8050	3.27	2.95	2.79	2.31	--
2 x 6	76342-306	973-660	3.65	3.27	3.12	2.55	--
2 x 6	76342-306LF	109-8051	3.91	3.50	3.34	2.73	--
2 x 7	76342-307	973-671	4.27	3.84	3.66	3.00	--
2 x 7	76342-307LF	109-8052	4.57	4.11	3.92	3.21	--
2 x 8	76342-308	973-683	4.87	4.38	4.14	3.39	--
2 x 8	76342-308LF	109-8053	5.21	4.69	4.43	3.63	--
2 x 9	76342-309	973-695	5.49	4.92	4.68	3.84	--
2 x 9	76342-309LF	109-8054	5.87	5.26	5.01	4.11	--
2 x 10	76342-310	973-701	6.08	5.46	5.19	4.26	--
2 x 10	76342-310LF	109-8055	6.51	5.84	5.55	4.56	--
2 x 11	76342-311	629-339	6.69	6.55	--	--	--
2 x 11	76342-311LF	109-7983	7.16	7.01	--	--	--
2 x 12	76342-312	629-340	7.27	6.54	6.24	5.13	--
2 x 12	76342-312LF	109-7984	7.78	7.00	6.68	5.49	--
2 x 13	76342-313	629-352	7.89	7.11	6.78	5.55	--
2 x 13	76342-313LF	109-7985	8.44	7.61	7.25	5.94	--
2 x 14	76342-314	629-364	8.49	7.65	7.26	5.97	--
2 x 14	76342-314LF	109-7986	9.08	8.19	7.77	6.39	--
2 x 15	76342-315	629-376	9.11	8.22	7.80	6.39	--
2 x 15	76342-315LF	109-7987	9.75	8.80	8.35	6.84	--
<b>Vertical - Double, Top/Bottom Entry</b>							
2 x 5	71991-305	629-388	3.12	2.82	2.67	2.22	--
2 x 5	71991-305LF	109-7988	3.34	3.02	2.86	2.38	--
2 x 6	71991-306	629-390	3.74	3.36	3.21	2.61	--
2 x 6	71991-306LF	109-7989	4.00	3.60	3.43	2.79	--
2 x 7	71991-307	629-406	4.37	3.93	3.75	3.06	--
2 x 7	71991-307LF	109-7990	4.68	4.21	4.01	3.27	--
2 x 8	71991-308	629-418	5.02	4.53	4.26	3.54	--
2 x 8	71991-308LF	109-7991	5.37	4.85	4.56	3.79	--
2 x 9	71991-309	629-420	5.62	5.04	4.80	3.96	--
2 x 9	71991-309LF	109-7992	6.01	5.39	5.14	4.24	--
2 x 10	71991-310	629-844	6.24	5.61	5.34	4.41	--
2 x 10	71991-310LF	109-7993	6.68	6.00	5.71	4.72	--
2 x 13	71991-313	629-870	8.11	7.29	6.96	5.70	--
2 x 13	71991-313LF	109-7995	8.68	7.80	7.45	6.10	--
2 x 17	71991-317	629-911	10.61	9.54	9.06	7.44	--
2 x 17	71991-317LF	109-7996	11.35	10.21	9.69	7.96	--
2 x 20	71991-320	630-007	12.48	11.22	10.68	8.76	--
2 x 40	71991-320LF	109-7997	13.35	12.01	11.43	9.37	--

**Headers 'Bergstik'**  
36 Way Breakaway



PCB hole dia = 1.0 min



- 36 way strip, which can be broken to required length
- Polarise by removal of selected pin(s) using the Bergstik polarising tool

Body:	Black, Glass Filled Polyamide UL94V-0		
Temperature range:	-65°C to +125°C		
Contact Rating 4A (max):	Solderability according to IEC682-20		
Pin Length (mm)	Plating	Mftrs. List No.	Order Code
(A) mating / (B) solder			
<b>Straight Single Row</b>	Gold	75160-105-36	535-102
5.72 / 10.16			219776

Order Code	1+	50+	100+	250+	+
535-102	4.46	3.87	3.54	3.24	--
109-7981	6.15	--	--	--	--

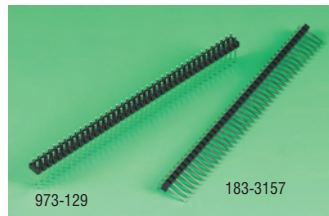
**AMP MODU**



- An interconnect system utilising a modular concept
- Precision formed crimp contacts and headers on 2.54mm pitch
- Unshrouded breakaway headers, snap-in crimp contact housing and shrouded headers
- Offers a reliable solution to most board to wire interconnection
- Approvals, **CSA**
- **UL** recognised

Current rating:	3A	Black thermoplastic Header Post:	Black Thermoplastic UL94V-0
Insulation resistance:	500MR		Phosphor bronze, tin over nickel plating
Temperature range:	-65°C to +105°C	Shrouded Header:	Phosphor Bronze
			Gold plating in contact area

**Unshrouded Breakaway Headers**

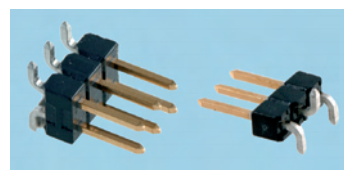


PCB hole dia. = 0.89 ± 0.08

209470

No. of Ways	Mftrs. List No.	Order Code	10+	25+	50+	100+	+
<b>Straight Single Row</b>							
36	3-103321-6	973-117	3.71	3.30	3.15	2.76	--
36	8-146274-6	105-6427	3.91	3.71	3.49	3.11	--
40	4-103321-0	181-9800	4.05	3.63	3.42	3.08	--
40	4-103321-8	109-8454	6.64	6.31	5.92	5.28	--
<b>Straight Double Row</b>							
36+36	3-103322-6	973-129	4.38	3.87	3.75	3.32	--
36+36	8-146250-6	105-6428	5.04	4.79	4.50	4.01	--
40+40	4-103322-0	182-1350	6.71	5.94	5.70	4.92	--
40+40	4-103322-2	109-8460	8.82	8.38	7.87	7.01	--
<b>90° Single Row</b>							
36	3-103323-6	973-130	6.55	5.82	5.58	4.83	--
36	8-103323-6	105-6429	5.04	4.79	4.50	4.01	--
40	4-103323-0	183-3157	4.44	3.90	3.75	3.36	--
40	4-103323-1	109-8476	7.18	6.83	6.41	5.71	--
<b>90° Double Row</b>							
36+36	3-103324-6	973-142	7.14	6.36	6.12	5.45	--
36+36	8-103324-6	105-6430	8.27	7.86	7.39	6.58	--
40+40	4-103324-0	183-3194	7.27	6.48	6.21	5.40	--
40+40	9-103324-0	105-6023	6.74	6.41	6.02	5.36	--

**Mod II - Surface Mount Pin Headers**



- Male connector strip, single and double row
- 2.54 mm grid
- Pins 0.63 x 0.63 mm
- Supplied with pick and place adaptor
- End stackable



Housing: PCT Polyester black  
 Contact material: Phosphor bronze  
 Contact surface: Selectively gold plated: contact zone 0.8 µm Au on Ni, Solder face 2.5 µm Sn on Ni

413734

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
<b>Single Row</b>						
3	1241150-3	968-9478	1.56	1.33	1.27	1.20
4	1241150-4	968-9486	1.73	1.56	1.43	1.33
5	1241150-5	968-9494	1.89	1.69	1.59	1.50
6	1241150-6	968-9508	2.21	1.99	1.89	1.79
7	1241150-7	968-9516	2.73	2.47	2.28	2.18
8	1241150-8	968-9524	3.22	2.90	2.73	2.60
	1241050-9	124-8116	3.27	2.97	2.82	2.70
10	1-1241150-0	968-9532	3.22	2.90	2.73	2.60
12	1-1241150-2	968-9540	3.91	3.52	3.26	3.12
<b>Double Row</b>						
2x2	1241050-2	968-9559	1.56	1.33	1.27	1.20
2x3	1241050-3	968-9567	1.89	1.69	1.59	1.50
2x4	1241050-4	968-9575	2.05	1.86	1.73	1.66
2x5	1241050-5	968-9583	2.15	1.92	1.82	1.73
2x6	1241050-6	968-9591	2.51	2.21	2.08	1.99
2x7	1241050-7	968-9605	2.73	2.47	2.28	2.18
2x8	1241050-8	968-9613	2.99	2.67	2.51	2.41
2x10	1-1241050-0	968-9621	3.68	3.26	3.06	2.93
2x9	1241150-9	124-8117	2.97	2.67	2.52	2.43
2x12	1-1241050-2	968-9630	10.06	8.98	8.43	8.04

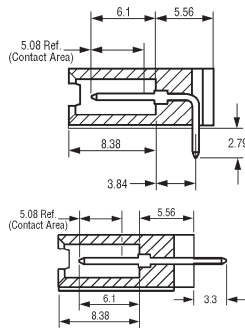
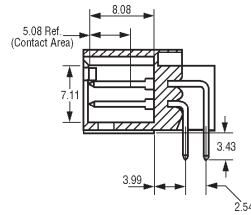
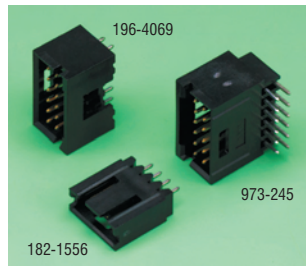
**Product Watch**

- FREE to all account holders
- Notification of obsolete, end of line and end of stock items
- Replacement or upgrade recommendations

**Advanced warning of obsolete components**



Standard Shrouded Headers



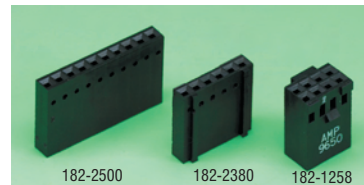
- Available with standoffs (single row) and detent window (double row)
- A plating = 30µ gold on contact area  
B plating = 15µ gold on contact area

209471

No. of Ways	Mftrs. List No.	Order Code	1+	25+	50+	100+	+
<b>Straight Single Row - with stand offs - A plating</b>							
3	103414-1..	308-8273‡	2.07	1.80	1.74	1.56	--
3	5-103414-1	105-6042●	3.18	3.02	2.84	2.53	--
4	103414-2..	308-8285‡	1.95	1.85	1.74	1.55	--
4	5-103414-2	105-6043●	1.95	1.85	1.74	1.55	--
6	103414-4..	308-8297‡	2.67	2.37	2.28	2.03	--
6	5-103414-4	105-6044●	3.09	2.93	2.76	2.45	--
8	103414-6..	308-8303‡	3.44	3.27	3.07	2.73	--
8	5-103414-6	105-6045●	3.44	3.27	3.07	2.73	--
10	103414-8..	308-8315‡	3.48	3.09	2.97	2.64	--
10	5-103414-8	105-6046●	4.01	3.81	3.58	3.19	--
12	1-103414-0.	308-8327‡	4.23	3.78	3.63	3.21	--
12	6-103414-0	105-6047●	4.87	4.63	4.35	3.87	--
<b>Straight Single Row - with stand offs - B plating</b>							
3	3-102202-4.	196-3995‡	1.93	1.71	1.65	1.41	--
3	8-102202-4	105-6024●	2.50	2.38	2.23	1.99	--
4	102202-1..	196-4069‡	2.04	1.77	1.71	1.53	--
4	5-102202-1	105-6026●	3.08	2.93	2.75	2.45	--
6	102202-3..	196-4150‡	2.62	2.34	2.25	1.98	--
6	5-102202-3	105-6027●	4.07	3.87	3.63	3.24	--
8	102202-5..	973-154‡	2.97	2.64	2.49	2.24	--
8	5-102202-5	105-6431●	3.40	3.23	3.04	2.70	--
10	102202-7..	973-166‡	3.49	3.12	3.00	2.61	--
10	5-102202-7	105-6432●	4.05	3.85	3.62	3.22	--
12	102202-9..	182-2317‡	4.38	3.87	3.72	3.30	--
12	5-102202-9	105-6022●	5.02	4.77	4.48	3.99	--
<b>90°C Single Row - with stand offs - A plating</b>							
3	103361-1..	308-8339‡	2.07	1.80	1.74	1.56	--
3	5-103361-1	105-6048●	3.18	3.02	2.84	2.53	--
4	103361-2..	308-8340‡	1.95	1.85	1.74	1.55	--
4	5-103361-2	105-6051●	1.95	1.85	1.74	1.55	--
6	103361-4..	308-8352‡	2.67	2.37	2.28	2.03	--
6	5-103361-4	105-6052●	3.09	2.93	2.76	2.45	--
8	103361-6..	308-8364‡	3.00	2.64	2.52	2.24	--
8	5-103361-6	105-6053●	3.44	3.27	3.07	2.74	--
10	103361-8..	308-8376‡	3.48	3.09	2.97	2.64	--
10	5-103361-8	105-6054●	4.01	3.81	3.58	3.19	--
12	1-103361-0.	308-8388‡	4.24	3.78	3.63	3.21	--
12	6-103361-0	105-6055●	4.87	4.63	4.35	3.87	--
<b>90°C Single Row - with stand offs - B plating</b>							
3	3-102203-4	196-4100▲‡	1.92	1.71	1.65	1.46	--
3	3-102203-9	109-8477●	3.33	3.16	2.97	2.65	--
4	102203-1..	973-178▲‡	2.04	1.77	1.71	1.53	--
4	3-102203-7	109-8777●	2.31	2.20	2.06	1.84	--
4	102203-5..	201-6631‡	2.97	2.64	2.49	2.23	--
8	5-102203-5	105-6028●	3.38	3.21	3.02	2.69	--
10	102203-7..	973-180‡	3.48	3.12	3.00	2.67	--
10	5-102203-7	105-6433●	4.05	3.85	3.62	3.22	--
12	102203-9..	973-191‡	4.38	3.87	3.72	3.27	--
12	5-102203-9	105-6434●	5.02	4.77	4.48	3.99	--
<b>Straight Double Row - with detent window - A plating</b>							
2x3	103168-1..	308-8390‡	3.63	3.21	3.06	2.73	--
2x3	5-103168-1	105-6056●	5.59	5.31	4.99	4.44	--
2x4	103168-2..	308-8406‡	3.96	3.48	3.33	2.97	--
2x4	5-103168-2	105-6057●	4.52	4.29	4.03	3.59	--
2x5	103168-3..	308-8418‡	4.11	3.66	3.48	3.11	--
2x5	5-103168-3	105-6058●	6.68	6.35	5.96	5.31	--
2x6	103168-4..	308-8420‡	4.38	3.87	3.72	3.30	--

No. of Ways	Mftrs. List No.	Order Code	1+	25+	50+	100+	+
<b>Straight Double Row - with detent window - A plating</b>							
2x6	5-103168-4	105-6059●	5.02	4.77	4.48	3.99	--
2x8	103168-6..	308-8431‡	4.98	4.44	4.20	3.77	--
2x8	5-103168-6	105-6060●	5.73	5.45	5.12	4.56	--
<b>Straight Double Row - with detent window - B plating</b>							
2x3	102618-1..	973-208‡	3.66	3.27	3.12	2.77	--
2x3	5-102618-1	105-6435●	4.22	4.01	3.77	3.36	--
2x4	102618-2..	973-210‡	3.99	3.54	3.39	3.02	--
2x4	5-102618-2	105-6436●	4.60	4.37	4.10	3.66	--
2x5	102618-3..	973-221‡	4.17	3.72	3.57	3.17	--
2x5	5-102618-3	105-6437●	4.81	4.57	4.29	3.82	--
2x6	102618-4..	182-1556‡	4.50	3.99	3.81	3.39	--
2x6	5-102618-4	105-6021●	5.15	4.89	4.59	4.09	--
<b>90° Double Row - with detent window - A plating</b>							
2x3	103166-1..	308-8443‡	4.15	3.95	3.71	3.30	--
2x3	5-103166-1	105-6061●	4.15	3.95	3.71	3.30	--
2x4	103166-2..	308-8455‡	3.96	3.48	3.33	2.88	--
2x4	5-103166-2	105-6063●	3.61	3.43	3.22	2.87	--
2x5	103166-3..	308-8467‡	4.11	3.66	3.48	3.11	--
2x5	5-103166-3	105-6064●	4.73	4.49	4.22	3.76	--
2x6	103166-4..	308-8479‡	4.38	3.87	3.42	3.30	--
2x6	5-103166-4	105-6065●	5.02	4.77	4.48	3.99	--
<b>90° Double Row - with detent window - B plating</b>							
2x3	102617-1..	217-1491‡	3.66	3.27	3.12	2.74	--
2x3	5-102617-1	105-6033●	4.16	3.95	3.71	3.31	--
2x5	102617-3..	973-233‡	4.65	4.11	3.96	3.53	--
2x5	5-102617-3	105-6439●	5.36	5.09	4.78	4.26	--
2x6	102617-4..	973-245‡	4.98	4.44	4.23	3.80	--
2x6	5-102617-4	105-6441●	5.78	5.49	5.15	4.59	--

Crimp Housings



- Non-polarised for use with unshrouded headers

219778

No. of Ways	Mftrs. List No.	Order Code	1+	50+	100+	500+	+
<b>Single Row - non-polarised</b>							
2	87499-3	183-3200●	1.62	1.44	1.38	1.23	--
3	87499-5	183-3212●	1.68	1.44	1.38	1.24	--
4	87499-7	183-3224●	1.77	1.59	1.50	1.33	--
6	1-87499-1	183-3248●	2.09	1.83	1.77	1.56	--
8	1-87499-3	183-3250●	2.85	2.52	2.43	2.14	--
10	1-87499-7	182-2500●	3.03	2.67	2.58	2.25	--
12	2-87499-1	182-2512●	3.27	2.88	2.79	2.41	--
<b>Double Row - non-polarised</b>							
2 x 2	5-87456-0	973-257●	1.74	1.59	1.50	1.33	--
2 x 3	87456-2	182-0023●	1.89	1.68	1.62	1.41	--
2 x 4	87456-4	973-269●	2.25	2.01	1.92	1.65	--
2 x 5	87456-6	182-0047●	2.84	2.52	2.43	2.10	--
2 x 6	87456-8	973-270●	3.56	3.18	3.06	2.64	--
2 x 8	1-87456-2	973-282●	4.15	3.72	3.54	3.09	--
<b>Single Row - centre polarised/detent</b>							
3	102241-1	182-2573●	1.00	0.90	0.87	0.75	--
4	102241-2	182-2585●	1.08	0.96	0.93	0.84	--
6	102241-4	182-2380●	1.13	1.02	0.99	0.87	--
8	102241-6	182-2408●	1.34	1.14	1.11	0.99	--
10	102241-8	182-2421●	1.44	1.29	1.26	1.07	--
12	1-102241-0	182-2433●	1.89	1.79	1.69	1.50	--
<b>Double Row - end polarised/detent</b>							
2 x 3	87631-2	182-1246●	1.62	1.44	1.38	1.23	--
2 x 4	87631-4	182-1258●	1.98	1.74	1.68	1.49	--
2 x 5	87631-6	182-1260●	2.03	1.98	1.86	1.65	--
2 x 6	87631-8	182-1179●	3.09	2.76	2.64	2.37	--
2 x 8	1-87631-2	182-1192●	3.28	2.94	2.79	2.43	--

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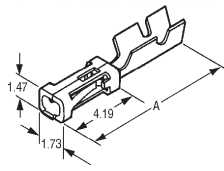
9  
Connectors - PCB

Compliant  
 Non-compliant  
 Limited stock - RoHS replacement available  
**RoHS**

Crimp Terminals for 'MODU'



182-5446



Tin and gold versions

Wire Size (AWG)	Wire Size (mm <sup>2</sup> )	Dimension 'A' (mm)	Mftrs. List No.	Order Code
26-22	0.12-0.4	11.3	87756-7	182-3218
26-22	0.12-0.4	11.3	87667-5	973-294
24-20	0.2-0.6	11.94	87523-6	182-5446
24-20	0.2-0.6	11.94	86016-5	973-300
26-22	0.12-0.4	11.3	102128-2	308-8480
26-22	0.12-0.4	11.3	102128-1	308-8492
24-20	0.2-0.6	11.3	1-87309-3	308-8509
26-22	0.12-0.4	11.3	102128-1	105-6066
24-20	0.2-0.6	11.3	1-87309-4	308-8510

219780

STD Pressure	Order Code	Price Each				
		10+	50+	1K+	5K+	+
Tin plated	182-3218	0.280	0.250	0.250	0.220	--
Selective Gold	973-294	0.664	0.635	0.596	0.562	--
Tin plated	182-5446	0.340	0.310	0.280	0.270	--
Selective Gold	973-300	0.660	0.590	0.560	0.490	--
<b>High Pressure</b>						
Tin plated	308-8480	0.560	0.440	0.410	0.340	--
Selective Gold	308-8492	1.260	0.960	0.930	0.780	--
Selective Gold	105-6066	1.140	1.090	1.020	0.960	--
Tin plated	308-8509	0.690	0.560	0.530	0.440	--
Selective Gold	308-8510	1.320	1.020	0.990	0.810	--

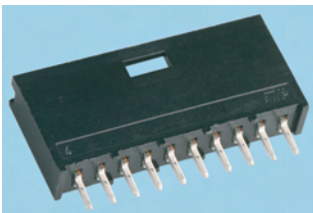
Tooling for 'MODU'



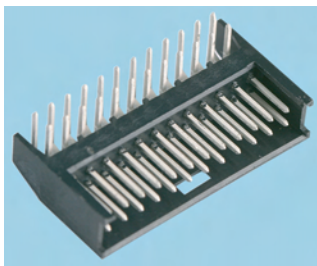
209474

Wire Size AWG	Mftrs. List No.	Order Code	Price Each
			1+
22-26	91517-1	427-6310	707.14
20-24	91516-1	427-6322	707.14
Extraction Tool	166645-1	NEW 962-9688	165.96

Shrouded Headers - MODU II  
Straight and 90°



Straight Header (817-9611)



90° Header (817-9832)

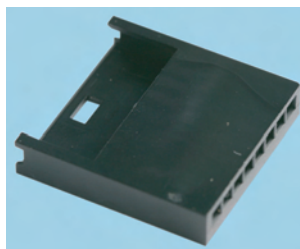
- Single or double row configuration
- Positive click for latching
- Housings are black thermoplastic, flame retardant 94V-0 rated
- Tin or gold plated contacts
- Pins 0.63 x 0.63 mm, 2.54mm pitch

373497

No. of Ways	Mftrs. List No	Order Code	Price Each			
			1+	10+	50+	100+
<b>Headers with Tin Plated Contacts</b>						
<b>Single Row - Straight</b>						
2	280370-1	817-9573	0.65	0.59	0.52	0.46
4	280371-1	817-9581	1.24	1.07	0.94	0.88
4	280371-1	120-6769	1.33	1.17	1.04	0.98
6	280372-1	817-9590	1.63	1.40	1.27	1.11
6	280372-1	120-6770	1.76	1.53	1.40	1.24

No. of Ways	Mftrs. List No	Order Code	Price Each			
			1+	10+	50+	100+
<b>Headers with Tin Plated Contacts</b>						
<b>Single Row - Straight</b>						
8	280373-1	817-9603	2.18	1.92	1.69	1.53
8	280373-1	120-6772	2.34	2.12	1.89	1.69
10	280374-1	817-9611	2.64	2.31	2.05	1.86
12	280520-1	NEW 968-8722	2.90	2.60	2.38	2.12
15	280375-1	NEW 968-8749	3.58	3.26	3.03	2.83
<b>Single Row - 90°</b>						
2	280377-1	817-9751	0.65	0.59	0.52	0.46
4	280378-1	817-9760	1.14	1.01	0.88	0.81
6	280379-1	817-9778	1.73	1.50	1.33	1.17
8	280380-1	817-9786	2.25	1.99	1.76	1.59
10	280381-1	817-9794	2.38	2.08	1.86	1.66
12	280523-1	NEW 968-8773	2.90	2.64	2.41	2.18
15	280382-1	NEW 968-8790	3.91	3.65	3.42	3.19
<b>Double Row - Straight</b>						
4x2	280384-1	817-9620	1.79	1.56	1.40	1.27
4x2	280384-1	120-6773	1.95	1.69	1.56	1.40
8x2	280385-1	817-9638	4.26	3.71	3.32	2.99
9x2	280509-1	817-9646	3.58	3.16	2.77	2.51
12x2	280521-1	817-9654	4.92	4.30	3.84	3.45
15x2	280387-1	NEW 968-8757	5.60	4.95	4.52	4.10
<b>Double Row - 90°</b>						
4x2	280389-1	817-9808	2.08	1.82	1.63	1.46
8x2	280390-1	817-9816	2.73	2.41	2.15	1.92
9x2	280510-1	817-9824	3.68	3.22	2.86	2.57
9x2	280510-1	120-6785	4.00	3.55	3.16	2.86
15x2	280392-1	NEW 968-8811	5.76	5.40	4.95	4.59
<b>Headers with 0.4µm Gold Plated Contacts</b>						
<b>Single Row - Straight</b>						
2	280370-2	817-9662	0.75	0.65	0.59	0.52
2	280370-2	120-6774	0.81	0.72	0.65	0.59
4	280371-2	817-9670	1.50	1.33	1.17	1.04
4	280371-2	120-6775	1.63	1.43	1.30	1.17
6	280372-2	817-9689	1.63	1.40	1.27	1.11
6	280372-2	120-6776	1.76	1.53	1.40	1.24
8	280373-2	817-9697	3.03	2.64	2.34	2.12
8	280373-2	120-6777	3.29	2.90	2.64	2.34
10	280374-2	817-9700	3.03	2.64	2.34	2.12
10	280374-2	120-6778	3.29	2.90	2.64	2.34
12	0-0280520-2	NEW 968-8714	3.81	3.48	3.26	3.09
15	0-0280375-2	NEW 968-8730	3.84	3.52	3.29	3.12
<b>Single Row - 90°</b>						
2	280377-2	817-9840	0.85	0.75	0.65	0.59
2	280377-2	120-6787	0.91	0.81	0.75	0.65
4	280378-2	817-9859	1.40	1.27	1.11	1.01
4	280378-2	120-6788	1.53	1.37	1.24	1.14
6	280379-2	817-9867	1.89	1.66	1.46	1.33
8	280380-2	817-9875	2.47	2.15	1.92	1.73
8	280380-2	120-6789	2.70	2.34	2.12	1.92
10	280381-2	817-9883	2.93	2.57	2.28	2.05
12	280523-2	NEW 968-8781	4.00	3.68	3.42	3.06
15	280382-2	NEW 968-8803	4.23	3.91	3.58	3.26
<b>Double Row - Straight</b>						
4x2	280384-2	817-9719	2.08	1.82	1.63	1.46
4x2	280384-2	120-6779	2.25	2.02	1.82	1.63
8x2	280385-2	817-9727	2.93	2.57	2.28	2.05
8x2	280385-2	120-6780	3.16	2.83	2.57	2.28
9x2	280509-2	817-9735	5.66	4.98	4.39	3.97
9x2	280509-2	120-6781	6.15	5.47	4.88	4.39
12x2	280521-2	817-9743	6.12	5.37	4.78	4.30
12x2	280521-2	120-6782	6.64	5.89	5.31	4.78
15x2	280387-2	NEW 968-8765	8.66	8.01	7.36	7.00
<b>Double Row - 90°</b>						
4x2	280389-2	817-9891	2.38	2.08	1.86	1.66
4x2	280389-2	120-6790	2.60	2.28	2.05	1.86
8x2	280390-2	817-9905	3.48	3.06	2.70	2.44
8x2	280390-2	120-6791	3.78	3.35	2.99	2.73
9x2	280510-2	817-9913	4.13	3.65	3.22	2.93
12x2	280522-2	817-9921	5.01	4.36	3.91	3.52
12x2	280522-2	120-6792	5.44	4.78	4.33	3.91
15x2	280392-2	968-8820	6.35	5.79	5.21	4.98

Crimp Housings - MODU II  
Wire to Wire or Wire to Board



Pin Housing Single Row (818-0067)



Receptacle Housing, Double Row (818-0016)

Prices are in Singapore Dollars and exclusive of GST. Due to the volatile nature of certain products, prices are subject to change without notice.

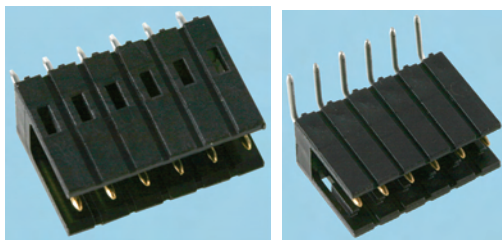
- Wire to wire (pin housing and Receptacle housing) or wire to board (pin housing and header) options
- Single or double row configuration
- Positive click for latching
- Housings are black thermoplastic, flame retardant 94V-0 rated
- Tin or gold plated contacts
- 0.63 x 0.63 mm, 2,54mm pitch

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
<b>Pin Housing, Single Row</b>						
2	280628	818-0032	1.24	1.07	0.94	0.88
4	280629	818-0040	1.24	1.07	0.94	0.88
6	280630	818-0059	1.50	1.33	1.17	1.04
8	280631	818-0067	1.79	1.56	1.40	1.27
10	280633	818-0075	1.99	1.73	1.56	1.40
<b>Pin Housing, Double Row</b>						
4x2	280637	818-0083	1.73	1.50	1.33	1.17
8x2	280638	818-0091	2.08	1.82	1.63	1.46
<b>Receptacle Housing, Single Row</b>						
2	280358	817-9930	0.29	0.26	0.23	0.20
4	280359	817-9948	0.39	0.36	0.29	0.26
6	280360	817-9956	0.49	0.42	0.36	0.36
8	280361	817-9964	0.65	0.59	0.52	0.46
10	280362	817-9972	0.75	0.65	0.59	0.52
12	280514-0	968-8684	0.88	0.78	0.72	0.65
15	0-0280363-0	968-8692	0.94	0.85	0.78	0.72
<b>Receptacle Housing, Double Row</b>						
4x2	280365	817-9980	1.14	0.98	0.91	0.81
8x2	280366	817-9999	1.04	0.91	0.81	0.72
9x2	280513	818-0008	1.14	1.01	0.88	0.81
12x2	280515	818-0016	1.24	1.07	0.94	0.88
15x2	0-0280368-0	968-8706	1.33	1.17	1.07	1.01

373508

Contacts		Mftrs. List No.	Order Code	10+	50+	100+	500+
<b>Contact, Tin Plated</b>							
Male	26-22	1-86561-0	818-0148	0.85	0.75	0.65	0.59
Female	26-22	182206-2	818-0121	1.63	1.40	1.27	1.11
<b>Contact, Gold Plated</b>							
Male	26-22	86561-6	818-0130	1.33	1.17	1.04	0.94
Female	26-22	181270-1	818-0113	0.75	0.65	0.59	0.52
Female	26-22	0-0181270-3	968-8838	0.68	0.58	0.53	0.49
Female	26-22	0-0181270-4	968-8846	0.78	0.68	0.63	0.56
<b>Tooling</b>							
Hand Tool with Die (AWG26-22) 58535-1 818-0156 857.73							
Extraction-Tool 91092-1 818-0199 15.40							

**SMT Compatible Shrouded Headers - MODU II** tyco / Electronics / AMP  
Straight and 90°



Straight Header (9688900)

90° Header (9689001)

- Mates with Black Modu IV Receptacle Housings
- Single or double row configuration
- Housings are black polyester for high operating temp. (PCT)
- Gold plated contacts
- Pins 0.63 x 0.63 mm, 2,54mm pitch

**NEW**

413715

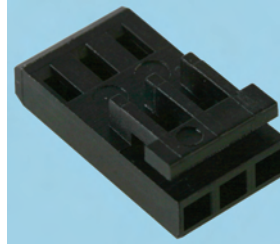
No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
<b>Single Row - Straight</b>						
3	0-0826467-3	968-8870	1.11	1.04	0.98	0.88
4	0-0826467-4	968-8889	1.27	1.17	1.11	1.01
5	0-0826467-5	968-8897	1.66	1.56	1.43	1.27
6	0-0826467-6	968-8900	3.16	2.96	2.77	2.54
8	0-0826467-8	968-8919	2.41	2.25	2.08	1.92
10	1-826467-0	124-8118	3.24	3.00	2.91	2.79
<b>Double Row - Straight</b>						
2x3	0-0826469-3	968-8927	2.05	1.92	1.82	1.66
2x4	0-0826469-4	968-8935	2.67	2.51	2.31	2.12
2x5	0-0826469-5	968-8943	3.12	2.96	2.77	2.54

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
<b>Double Row - Straight</b>						
2x6	0-0826469-6	968-8951	4.00	3.74	3.52	3.19
2x8	826469-8	968-8960	3.22	3.03	2.83	2.60
2x10	1-826469-0	124-8120	6.51	5.85	5.64	5.43
<b>Single Row - 90°</b>						
3	0-0826468-3	968-8978	0.94	0.88	0.81	0.75
4	0-0826468-4	968-8986	1.11	1.04	0.98	0.88
5	826468-5	968-8994	1.46	1.33	1.24	1.14
6	826468-6	968-9001	1.82	1.69	1.59	1.43
8	826468-8	968-9010	2.73	2.57	2.41	2.18
10	1-826468-0	124-8119	3.36	2.46	2.40	2.28
<b>Double Row - 90°</b>						
2x3	0-0826470-3	968-9028	2.12	2.02	1.89	1.73
2x4	0-0826470-4	968-9036	2.96	2.57	2.41	2.18
2x5	826470-5	968-9044	3.35	3.09	2.90	2.67
2x6	826470-6	968-9052	3.91	3.65	3.42	3.12
2x8	826470-8	968-9060	3.74	3.52	3.26	2.99
2x10	1-826470-0	124-8122	6.75	5.88	5.76	5.46

**Receptacle Housing - MODU IV**



Single and Double Row



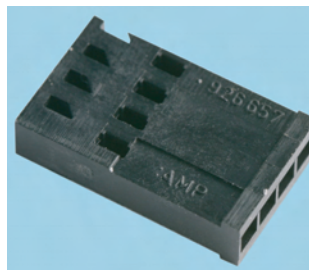
- Mates with Surface Mount compatible headers
- Single or double row configuration
- Housings are black polyester (PBT)
- Gold plated contacts
- 2,54mm pitch

**NEW**

413722

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+	100+
<b>Single Row</b>						
3	0-0926475-3	968-9079	0.78	0.72	0.68	0.62
4	0-0926475-4	968-9087	0.94	0.88	0.81	0.75
5	0-0926475-5	968-9095	1.11	1.04	0.98	0.88
6	0-0926475-6	968-9109	1.27	1.17	1.11	1.01
8	0-0926475-8	968-9117	1.82	1.69	1.59	1.43
<b>Double Row</b>						
2x3	0-0926476-3	968-9125	1.27	1.17	1.11	1.01
2x4	0-0926476-4	968-9133	1.89	1.79	1.66	1.50
2x5	0-0926476-5	968-9141	2.31	2.15	2.02	1.86
2x6	0-0926476-6	968-9150	2.67	2.51	2.31	2.12
2x8	0-0926476-8	968-9168	3.52	3.26	3.06	2.80
<b>Accessories</b>						
Retention fork						
- Black	0-0926478-1	968-9176	0.75	0.72	0.68	0.62
Retention fork						
- Red	926478-3	968-9184	0.78	0.72	0.68	0.62
Keying plug - Black						
0-0926498-1	968-9192	0.51	0.48	0.44	0.41	
Keying plug - Red						
0-0926498-3	968-9206	0.51	0.48	0.44	0.41	

**"Locking-Clip"**  
Housing and Contacts



Housing (818-0245)

- Self-retaining contacts provide permanent connection with quick connect and disconnect
- Fast, easy installation with no additional locking hardware required
- Single- and double-row configurations up to 10 positions
- Thermoplastic housing to UL94V-0
- 2,54mm pitch
- Mates with AMP MODU headers
- UL recognised, CSA Approved



9  
Connectors - PCB

Compliant  
Non-compliant  
RoHS  
Limited stock - RoHS replacement available

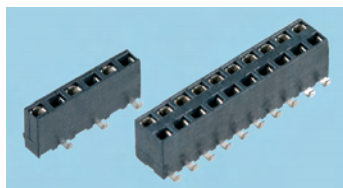


Contact\*Locking Clip\* (139-5300) Extraction Tool (818-0202) 373525

No of Ways	Mfrs List No	Order Code	1+	10+	50+	100+
<b>Housing, Single Row</b>						
1	926010-1	818-0210	1.50	1.33	1.17	1.04
2	926657-2	818-0229	1.33	1.17	1.04	0.94
3	926657-3	818-0237	1.33	1.17	1.04	0.94
4	926657-4	818-0245	1.50	1.33	1.17	1.04
5	926657-5	869-2980	1.86	1.66	1.53	1.30
<b>Housing, Double Row</b>						
2x2	926209-2	818-0253	2.08	1.82	1.63	1.46
3x2	926209-3	818-0261	2.25	1.99	1.76	1.59
4x2	926209-4	869-2998	2.70	2.47	2.21	1.92
5x2	926209-5	818-0270	2.64	2.31	2.05	1.86
<b>Polarising Key</b>						
-	926329-1	818-0288	0.29	0.26	0.23	0.20

AWG	Mfrs List No	Order Code	10+	50+	100+	500+
<b>Contacts, Tin Plated</b>						
Female	30-28 87191-2	818-0164	1.04	0.91	0.81	0.72
Female	26-22 87165-2	139-5300	2.05	1.86	1.63	1.40
<b>Contacts, Gold Plated</b>						
Female	30-28 87191-1	151-5585	1.76	1.53	1.40	1.24
Female	26-22 87165-1	818-0172	2.18	1.92	1.69	1.53
<b>Tooling</b>						
Handtool with Die (AWG30-28; 26-22)656075-1			818-0180	983.89		
Extraction Tool 91084-1			818-0202	112.46		

**HV-100 - Surface Mount Receptacles** tyco / Electronics / AMP  
Single and Double row



- Female connector strip, single and double row
- 2.54 mm grid
- Supplied with pick and place adaptor
- Vertical PCB mount
- Top or bottom entry
- End stackable

**NEW**

Housing: Liquid crystal polymer (LCP), Black, UL94V-0  
Contact material: Phosphor bronze  
Contact surface: Selectively gold plated; contact zone 0.8 µm Au on Ni, Solder face 2.5 µm Sn on Ni

413758

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
<b>Single Row</b>						
3	1241152-3	968-9648	1.99	1.79	1.66	1.59
4	1241152-4	968-9656	2.41	2.15	2.02	1.92
5	1241152-5	968-9664	2.67	2.38	2.21	2.12
6	1241152-6	968-9672	2.99	2.67	2.51	2.41
7	1241152-7	968-9680	3.58	3.19	2.99	2.86
8	1241152-8	968-9699	3.84	3.42	3.19	3.06
10	1-1241152-0	968-9702	4.36	3.87	3.65	3.48
12	1-1241152-2	968-9710	5.14	4.56	4.23	4.07
<b>Double Row</b>						
2X2	969973-2	968-9729	2.31	2.05	1.95	1.86
2X3	969973-3	968-9737	2.67	2.38	2.21	2.12
2X4	969973-4	968-9745	3.16	2.83	2.67	2.54
2X5	969973-5	968-9753	3.22	2.90	2.73	2.60
2X6	969973-6	968-9761	4.23	3.81	3.58	3.42
2X7	969973-7	968-9770	4.52	4.00	3.78	3.61
2X8	969973-8	968-9788	4.85	4.33	4.04	3.87
2X10	1-969973-0	968-9796	5.50	4.85	4.56	4.36
2X12	1-969973-2	968-9800	6.84	6.09	5.73	5.50

**CST-100 Crimp Housing** tyco / Electronics / AMP



- Single row wire-to-board interconnections
- Able to mate with MTA headers

Spacing: 2.54mm  
Material: Natural, Nylon UL94V-0  
Insulation resistance: 1000 MΩ min  
Temperature range: -55°C to +105°C

219777

No. of ways	Mfrs. List No.	Order Code	5+	50+	500+	1K+
2	770602-2	749-941	0.38	0.28	0.22	0.19
3	770602-3	749-953	0.38	0.31	0.25	0.19
4	770602-4	749-965	0.41	0.34	0.25	0.22
5	770602-5	749-977	0.44	0.38	0.25	0.22
6	770602-6	749-989	0.47	0.41	0.28	0.22
7	770602-7	749-990	0.53	0.44	0.31	0.25
8	770602-8	750-001	0.56	0.47	0.31	0.25
10	1-770602-0	750-025	0.63	0.56	0.38	0.29
12	1-770602-2	750-037	0.72	0.63	0.41	0.34
15	1-770602-5	750-049	0.87	0.75	0.53	0.41

**CST-100 Crimp Terminal**

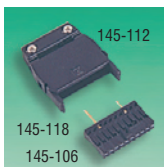


- Tin crimp terminal CST-100 housing

209465

AWG	Mfrs. List No.	Order Code	100+	500+	1K+	5K+
22-26 Tin	770666-1	750-050	0.16	0.14	0.13	0.09

**Bump Polarised (not IDC)**



- Female socket connectors with removable crimp contacts
- Single or twisted pair cable application
- Bump polarised, mates with 0.1" pitch male, with or without latch ejectors

Contact rating: 3A dc  
Voltage rating: 250Vac  
Contact resistance: 20mΩ max.  
Wire Size: 24 - 32 AWG

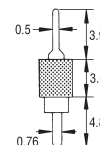
Housing: Nylon UL94V-1  
Cover: Nylon 6, UL94V-2  
Contacts: Copper alloy  
Gold over Palladium

Mfrs. List No. Connectors = FCN723B0xx2, Crimp tool = FCN723TT007H, Covers = FCN720C0xx25 where xx = No of ways, Contacts = FCN723J-AUG

209411

No. of ways	Order Code	1+	25+	100+	250+	+	+
<b>Receptacle Connectors (Bump Polarised)</b>							
20	145-106	2.23	1.85	1.62	1.36	--	--
26	145-107	2.54	--	--	--	--	--
34	145-108	3.00	2.49	2.27	1.82	--	--
40	145-109	3.50	2.99	2.66	2.15	--	--
50	152-280	3.88	3.24	2.89	2.34	--	--
<b>Receptacle Covers</b>							
20	145-112	8.50	7.04	6.23	--	--	--
26	145-113	9.08	7.52	6.68	--	--	--
34	152-281	10.27	8.53	7.55	--	--	--
<b>1+</b>							
<b>Crimp Tool</b>	145-131	1,850.56					
<b>Price Per Pack</b>							
<b>Crimp Contacts</b>		1+	100+	500+	1K+	+	
100 per pack	145-118	51.94	43.33	38.49	37.20	--	

**Single Row Through Header - Turned Pin Contacts**



L=50.80 (20 way), 81.28 (32 way)  
W=2.54, H=11.7 (overall), PCB hole dia=1.0

- SIL headers with precision turned brass pins
- Easy snap-off design for required length
- Ideal as through-connector headers or used with SIL sockets, Order Codes 103-963 and 170-715

Pin spacing: 2.54 mm  
Temperature range: -55°C to +150°C  
Housing: Black Glass Filled Polyester UL94V-0  
Contacts: Tin/Lead finish

Mfr. List No. D01-992xx-01, where xx=No. of ways

209415

	Order Code	1+	25+	100+	500+
20 way	176-370▲‡	3.85	3.37	2.89	2.40
20 way	102-2217●	3.85	3.37	2.89	2.40
32 way	176-371▲‡	5.75	5.07	4.27	3.60
32 way	102-2218●	5.75	5.07	4.27	3.60

0.1" Pitch Jumper Sockets



L=6.5, W=5.0, D=2.54

Current rating	3A @ 50°C	Insertion/Withdrawal force	13N/3N
Contact resistance	20mΩ max.	Housing	Glass Filled Polyester UL94V-0
Temperature range	-40°C to +105°C	Contacts	Phosphor Bronze, Gold
		Mating cycles	300

- Gold plated
- End and side stackable
- High pressure contact
- Tapered entry for pin insertion
- Open top for test probes



Colour	Mfrs. List No.	Order Code	10+	20+	100+	250+	+	+
Blue	M7571-05	148-029●	0.67	0.50	0.44	0.30	--	--
Black	M7567-05	150-410●	0.74	0.57	0.47	0.30	--	--
Red	M7566-05	150-411●	0.74	0.57	0.47	0.30	--	--
Light Grey	M7565-05	150-412●	0.74	0.57	0.47	0.30	--	--

Closed Top Jumper Sockets

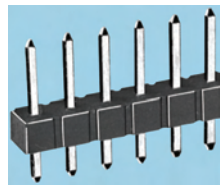


W=5.00, D=2.4

- End and side stackable
  - Sold in multiples of 10
  - 10mm or 14mm size
  - Tapered entry for pin insertion
  - Flexible handle for ease of location and withdrawal
- |                   |                 |                            |                       |
|-------------------|-----------------|----------------------------|-----------------------|
| Current rating    | 5A              | Contact Resistance         | 3mΩmax                |
| Temperature range | -40°C to +150°C | Insertion/Withdrawal force | 12.5N/5N              |
| Housing           | Polyester       | Contacts                   | Phosphor Bronze, Gold |
| Mating cycles     | 300             | Rated Voltage              | 250AC/DC              |

Type (mm)	Mfrs. List No.	Order Code	10+	20+	100+	250+
Red 14	M7681-05	321-8442●	0.71	0.54	0.47	0.33
Blk 14	M7682-05	321-8454●	0.71	0.54	0.47	0.33
Blue 14	M7683-05	321-8466●	0.71	0.54	0.47	0.33
Red 10	M7685-05	321-8478●	0.71	0.54	0.47	0.33
Blk 10	M7686-05	321-8480●	0.71	0.54	0.47	0.33
Blue 10	M7687-05	321-8491●	0.71	0.54	0.47	0.33

Pin Headers, Through Hole / SMT  
2.54 mm Grid, Snap-off



- Easy snap-off design for required length with 0.635 mm square pins
- 2.54 mm grid
- Straight and angled versions for solder or SMT mounting
- Single and Dual row versions can be supplied
- Reflow solder compatible



Dimensions: A = Overall Height, B = Board Pin length, C = Mating Pin length

Mfrs. list no.	No. of ways	Contact-plating	Dimensions (mm)			order code
THT/Solder-Versions						
Vertical, Single Row						
SL1.025.36Z	36	Tin	11,2	2,6	5,8	972-9038
SL11.124.36G	36	Gold	12,4	3,0	6,6	972-9062
SL11.139.36Z	36	Tin	13,9	3,0	8,1	972-9160
SLLP1.097/36 Z	36	Tin	9,7	3,0	5,0	972-9119
Vertical, Double Row						
SL2.025.72G	36+36	Gold	11,2	2,6	5,8	972-9070
SL22.124.72 G	36+36	Gold	12,4	3,0	6,6	972-9089
SL22.190.72Z	36+36	Tin	19,0	3,0	13,2	972-9097
SLLP2.112.72Z	36+36	Tin	11,2	3,0	6,5	972-9127
90°C, Single Row						

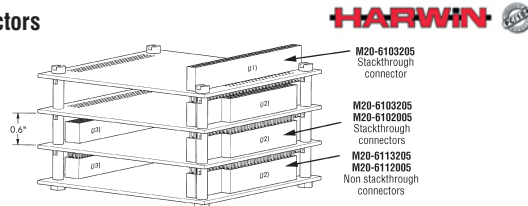
SL.3.25.36G	36	Gold	4,5	3,0	5,8	972-9100
SMT						
Vertical, Double Row						
SL11.SMD.062.40S	20+20	Gold	-	-	6,7	972-9046
SL11.SMD.062.40Z	20+20	Tin	-	-	6,7	972-9054

Rated Current:	3A	Working Temperature:	-40°C to +163°C (+260°C 1min.)
Rated Voltage:	250V AC	Material, Isolator:	PA 4.6, GF
Contact Resistance:	<5mΩ	Flammability:	UL94V-0
Test Voltage:	2000V	Material, Contacts:	CuSn
Isolation Resistance:	>10 <sup>12</sup> Ω	Contact Plating:	tin or 0.2µm gold

Mfrs. List No.	No. of Ways	Order Code	1+	10+	100+	250+
Vertical, Single Row						
SL1.025.36Z	36	972-9038●	2.57	2.25	2.05	1.86
SL11.124.36G	36	972-9062●	2.70	2.41	2.18	1.99
SL11.139.36Z	36	972-9160●	3.65	3.22	2.90	2.64
SLLP1.097/36 Z	36	972-9119●	3.42	3.03	2.73	2.51
Vertical, Double Row						
SL2.025.72G	36+36	972-9070●	7.19	6.38	5.76	5.24
SL22.124.72 G	36+36	972-9089●	7.29	6.51	5.86	5.34
SL22.190.72Z	36+36	972-9097●	5.79	5.14	4.59	4.20
SLLP2.112.72Z	36+36	972-9127●	7.03	6.25	5.63	5.14
90°, Single Row						
SL.3.25.36G	36	972-9100●	4.46	3.94	3.55	3.22
SMT						
Double Row						
SL11.SMD.062.40S	20+20	SMD 972-9046●	4.39	3.91	3.52	3.19
SL11.SMD.062.40Z	20+20	SMD 972-9054●	3.09	2.77	2.47	2.25

2.54mm Pitch PC/104 Connectors

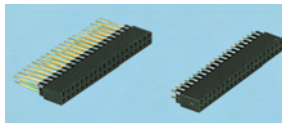
Bus Connectors



- PC/104 Plus is an industry standard for PC applications
- Embedded systems designers can reduce costs risks and lead times
- Dedicated and embedded PC architecture is an accepted platform for:
  - Vending Machines
  - Test equipment
  - Medical equipment
  - Communication devices
  - Laboratory instruments

PC/104 and the PC/104 logo are trademarks of the PC/104 consortium.

Bus Connectors



- 32+32 way supports an 8-bit system
- 20+20 way combined with a 32+32 way supports a 16-bit system
- 4 x 30, 120 way available, 2.00mm pitch

- Press-Fit versions eliminate costly hand soldering and allow board rework

Current rating	1A	Housings	Glass Filled Polyester UL94V-0
Voltage proof	1000V ac	Contacts	Phosphor Bronze
Contact Resistance	10mΩ max	Finish	Gold Flash Over Nickel
Insulation resistance	5000 MΩ min.	Average insertion force	103.2g (1N) per contact
Temperature range	-55°C to +105°C	Average withdrawal force	71.5g (0.7N) per contact

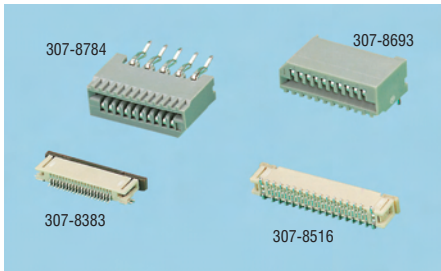
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No. of Ways	Mfrs. List No.	Order Code	1+	10+	100+
Stackthrough					
40	M20F6102005	359-907●	6.47	5.78	5.23
64	M20F6103205	359-956●	9.45	8.38	7.61
Stackthrough Press-Fit					
40	M20-6152005	486-1401●	23.89	21.52	19.56
64	M20-6153205	486-1413●	26.07	23.47	21.32
120	M22-6053005	486-1449●	67.93	61.13	55.56
Non-Stackthrough					
40	M20F6112005	359-970●	6.14	5.46	4.94
64	M20F6113205	359-993●	8.01	7.16	6.48
Non-Stackthrough Press-Fit					
40	M20-6162005	486-1425●	14.06	12.63	11.49

Flat Flexible Cable and Flexible Printed Circuit Connectors

FFC/FPC Connectors

0.5mm/1.0mm/1.25mm/ Pitch



- Top and bottom contact options
- Accommodates 0.3mm to 0.1mm FFC/FPC
- ZIF versions with secondary actuator
- Gas tight contact interface to the circuit

Contacts Phosor Bronze Contact resistance 20mΩ max  
 Plating Tin Temperature range -30°C to ++85°C

209501

Pack Quantity = 1						
No. of Mftrs.	Order Code	1+	10+	50+	100+	+
<b>0.5mm ZIF R/A top contact SMT</b>						
10	52745-1090	307-8309▲‡	3.49	3.09	2.82	2.34
10	527451096	978-6287●	4.18	3.52	2.28	1.71
14	527451496	978-6295●	5.09	4.28	2.77	2.08
16	52745-1690	307-8322▲‡	4.65	4.11	3.72	3.09
16	527451696	978-6309●	5.54	4.67	3.02	2.27
20	52745-2090	307-8334▲‡	5.40	4.80	4.32	3.60
20	527452096	978-6317●	6.22	5.23	3.39	2.54
30	52435-3091	307-8346▲‡	8.55	7.62	6.84	5.70
30	524353072	978-6180●	9.77	8.23	5.32	3.99
<b>0.5mm ZIF R/A bottom contact SMT</b>						
10	52746-1090	307-8358▲‡	3.49	3.09	2.82	2.34
10	527461070	978-6325●	4.18	3.52	2.28	1.71
14	527461470	978-6333●	5.09	4.28	2.77	2.08
16	52746-1690	307-8371▲‡	4.65	4.11	3.72	3.09
16	527461670	978-6341●	5.54	4.67	3.02	2.27
20	52746-2090	307-8383▲‡	5.40	4.80	4.32	3.60
20	527462070	978-6350●	6.22	5.23	3.39	2.54
30	52437-3091	307-8395▲‡	8.99	7.98	7.20	6.00
30	524373072	978-6198●	10.73	9.03	5.85	4.39
<b>0.5mm ZIF straight SMT</b>						
10	525591072	978-6201●	4.27	3.60	2.33	1.75
20	52559-2090	307-8413▲‡	5.80	5.16	4.62	3.87
20	525592072	978-6210●	6.93	5.83	3.77	2.83
30	52559-3092	307-8425▲‡	8.02	7.14	6.42	5.37
30	525593072	978-6228●	3.35	2.82	1.82	1.37
<b>1.0mm ZIF R/A bottom contact SMT</b>						
6	522710679	NEW 107-9950●	1.73	1.66	1.53	1.46
8	522710879	NEW 107-9951●	2.28	2.21	2.15	2.05
10	52271-1090	307-8437▲‡	2.06	1.80	1.62	1.38
10	522711079	978-6120●	2.44	2.06	1.33	1.00
12	522711279	NEW 107-9952●	2.99	2.90	2.80	2.67
14	52271-1490	307-8449▲‡	2.43	2.16	1.92	1.62
14	522711479	978-6139●	2.91	2.45	1.59	1.19
16	52271-1690	307-8450▲‡	2.62	2.31	2.10	1.74
16	522711679	978-6147●	3.06	2.58	1.67	1.25
18	52271-1890	392-8135▲‡	2.76	2.52	2.25	1.86
20	52271-2090	307-8462▲‡	3.00	2.64	2.40	2.01
20	522712079	978-6163●	3.59	3.02	1.95	1.47
22	522712279	NEW 107-9953●	3.19	3.03	2.93	2.86
24	522712479	NEW 107-9954●	3.29	3.16	3.06	2.99
26	52271-2690	307-8474▲‡	3.59	3.18	2.88	2.37
26	522712679	978-6171●	4.00	3.37	2.18	1.63
28	522712879	NEW 107-9956●	3.61	3.52	3.42	3.29
30	522713079	NEW 107-9957●	4.56	4.36	4.30	4.10
<b>1.0mm ZIF R/A top contact SMT</b>						
6	522070685	NEW 107-9936●	1.86	1.69	1.59	1.56
8	522070885	NEW 107-9937●	1.95	1.79	1.73	1.66
10	522071085	NEW 107-9938●	2.34	2.15	2.08	1.99
12	522071285	NEW 107-9939●	2.51	2.34	2.28	2.21
14	522071485	NEW 107-9940●	2.67	2.54	2.47	2.41
16	522071685	NEW 107-9941●	2.96	2.83	2.67	2.60
18	522071885	NEW 107-9942●	3.19	3.03	2.93	2.86
20	522072085	NEW 107-9944●	3.32	3.22	3.12	3.03
22	522072285	NEW 107-9945●	3.55	3.42	3.32	3.22
22	522072485	NEW 107-9946●	3.81	3.68	3.61	3.48
22	522072685	NEW 107-9947●	4.04	3.91	3.74	3.65
22	522072885	NEW 107-9948●	4.62	4.49	4.36	4.23
22	522073085	NEW 107-9949●	4.88	4.72	4.59	4.43
<b>1.0mm ZIF straight SMT</b>						
6	526100671	NEW 107-9958●	2.67	2.54	2.47	2.38
8	526100871	NEW 107-9959●	3.09	3.03	2.93	2.86
10	52610-1090	307-8486▲‡	3.65	3.24	2.94	2.43
10	526101071	978-6236●	4.09	3.44	2.23	1.67

Pack Quantity = 1						
No. of Mftrs.	Order Code	1+	10+	50+	100+	+
<b>1.0mm ZIF straight SMT</b>						
12	526101271	NEW 107-9960●	4.04	3.91	3.78	3.68
14	526101471	NEW 107-9961●	4.36	4.23	4.04	3.97
16	526101671	NEW 107-9962●	4.72	4.69	4.36	4.20
18	52610-1890	392-8160▲‡	4.80	4.26	3.84	3.18
20	52610-2090	307-8498▲‡	5.93	5.28	4.74	3.93
20	526102071	978-6252●	6.80	5.72	3.70	2.78
22	526102271	NEW 107-9963●	6.15	5.99	5.83	5.63
24	526102471	NEW 107-9964●	6.54	6.44	6.25	6.05
26	52610-2690	307-8504▲‡	7.27	6.45	5.79	4.83
26	526102671	978-6260●	8.40	7.07	4.58	3.43
28	526102871	NEW 107-9965●	7.42	7.36	7.03	6.84
30	52610-3090	307-8516▲‡	11.48	10.20	9.21	7.65
30	526103071	978-6279●	9.49	7.99	5.17	3.88
<b>1.25mm ZIF R/A through hole</b>						
4	39532044	978-5957●	1.14	0.96	0.82	0.57
6	39532064	978-5973●	1.50	1.28	1.09	0.77
8	39-51-3083	307-8541▲‡	1.59	1.41	1.29	1.05
8	39532084	978-5990●	1.90	1.60	1.34	0.96
10	39-51-3103	307-8553▲‡	1.81	1.62	1.47	1.23
10	39532104	978-6015●	2.18	1.83	1.53	1.10
14	39-51-3143	307-8565▲‡	2.31	2.07	1.83	1.53
14	39532144	978-6031●	2.77	2.33	1.95	1.40
16	39532164	978-6058●	3.44	2.89	2.42	1.73
20	39-51-3203	307-8589▲‡	3.06	2.70	2.46	2.04
20	39532204	978-6074●	3.67	3.09	2.58	1.85
30	39532304	978-6082●	5.21	4.38	3.67	2.63
<b>1.25mm ZIF straight through hole</b>						
4	39532045	978-5965●	1.00	0.84	0.72	0.51
6	39532065	978-5981●	1.31	1.10	0.94	0.66
8	39532085	978-6007●	1.61	1.35	1.13	0.81
10	39532105	978-6023●	1.92	1.62	1.35	0.97
14	39532145	978-6040●	2.51	2.12	1.77	1.27
16	39-51-3164	307-8656▲‡	2.37	2.10	1.86	1.56
16	39532165	978-6066●	2.83	2.38	1.99	1.42
<b>1.25mm Non-ZIF R/A through hole</b>						
4	52044-0445	307-8668‡	0.81	0.72	0.66	0.53
4	52044-0445	101-2177●	0.96	0.81	0.53	0.39
6	52044-0645	307-8670‡	0.97	0.84	0.78	0.66
8	52044-0845	307-8681‡	1.10	0.99	0.87	0.75
8	52044-0845	101-2178●	1.33	1.12	0.74	0.54
10	52044-1045	307-8693	1.26	1.11	0.99	0.84
14	52044-1445	307-8700‡	1.56	1.41	1.26	1.02
14	52044-1445	101-2179●	1.87	1.58	1.04	0.77
16	52044-1645	307-8711‡	1.72	1.53	1.38	1.14
16	52044-1645	101-2180●	2.05	1.73	1.12	0.84
20	52044-2045	101-2181●	2.43	2.04	1.32	0.99
<b>1.25mm Non-ZIF straight</b>						
4	52045-0445	307-8759‡	0.75	0.66	0.59	0.50
6	52045-0645	307-8760‡	0.75	0.66	0.59	0.50
6	52045-0645	101-2182●	0.89	0.75	0.49	0.36
14	52045-1445	307-8796‡	0.84	0.75	0.69	0.56
14	52045-1445	101-2183●	1.01	0.85	0.56	0.41
16	52045-1645	307-8802‡	1.56	1.41	1.26	1.02
16	52045-1645	101-2184●	1.87	1.58	1.04	0.77
30	52045-3045	307-8826‡	2.06	1.83	1.65	1.38
30	52045-3045	101-2185●	2.47	2.08	1.35	1.01
40	52045-4045	307-8838	2.62	2.34	2.10	1.74

Primo-Flex™ Jumper



1mm Pitch for FFC/FPC Connectors



- Allows a light and small planar structure to accommodate a high density wiring solution
- Single connector interface eliminates crimping of connector on ends of cable
- Primo-Flex™ can be folded and will retain shape providing flexibility and reliability
- Replaces flat cable and wire harnesses saving space and cost
- FFC products allow a high temperature environment up to 105 degree C to meet Industry Standard requirements.
- Type A, contacts on the same side

**NEW**

Length 152mm / 6" Operating temperature -40°C to +105°C  
 Current Rating 1.2 Max. Voltage 60V

418125

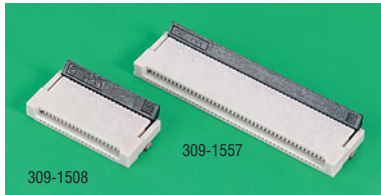
No. of Ways	Mftrs. List No.	Order Code	1+	50+	+
6	982670211	107-9966●	2.18000	2.10924	--
8	982670233	107-9968●	2.34000	2.17620	--
10	982670255	107-9969●	2.68000	2.47752	--
12	982670277	107-9970●	2.75000	2.54448	--
14	982670299	107-9971●	2.95000	2.71188	--
16	982670321	107-9972●	3.11000	2.87928	--
18	982670343	107-9973●	3.31000	3.11364	--

Prices are in Singapore Dollars and exclusive of GST. Due to the volatile nature of certain products, prices are subject to change without notice.



No. of Ways	Mfrs. List No.	Order Code	1+	50+	+
20	982670365	107-9974	3.38000	3.14712	--
22	982670387	107-9975	3.48000	3.18060	--
24	982670409	107-9976	4.32000	4.05108	--
26	982670431	107-9977	4.62000	4.25196	--
28	982670453	107-9978	4.69000	4.28544	--
30	982670475	107-9981	4.75000	4.41936	--

**FPC Connectors**  
0.5mm ZIF, Rotary lock type



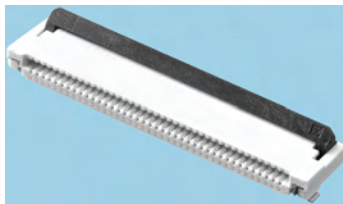
- Unique rotary lock improves efficiency during FPC mounting
- Double sided contacts maintain stable contact force
- Eliminates the need for upper and lower contact discrimination

Contact rating	0.5A	Housing	Polyamide plastic
Voltage rating	50V dc	Slider	Polyamide plastic
Contact Resistance	30mΩ(max)	Contacts	Copper/nickel alloy
Insulation resistance	100MΩ (min)		

227349

No. of Ways	Mfrs. List No.	Order Code	5+	25+	50+	100+	+
10	XF2H-1015-1	309-1491	1.64	1.51	1.38	1.16	--
20	XF2H-2015-1	309-1508	2.07	1.86	1.67	1.44	--
24	XF2H-2415-1	309-1510	2.44	2.21	1.99	1.67	--
30	XF2H-3015-1	309-1521	2.84	2.54	2.31	1.96	--
35	XF2H-3515-1	309-1533	3.04	2.73	2.50	2.15	--
40	XF2H-4015-1	309-1545	3.27	2.99	2.66	2.28	--
45	XF2H-4515-1	309-1557	3.67	3.31	3.02	2.54	--
50	XF2H-5015-1	309-1569	3.78	3.43	3.15	2.63	--

**FPC Connectors - XF2M Series**  
0.5mm ZIF, Rotary Backlock type



- Unique rear locking improves efficiency during FPC mounting
- Double sided contact structure for reduced component size
- Ideal for space-sensitive applications
- Applicable FPC thickness is 0.3mm

**NEW**

Contact rating	0.5A	Housing	LCP Resin, Natural
Voltage rating	50V dc	Slider	LCP Resin, Black
Contact Resistance	40mΩ(max)	Contacts	Gold Plated
Insulation resistance	100MR (at 250V DC)		

422870

No. of Ways	Mfrs. List No.	Order Code	5+	25+	50+	100+	+
10	XF2M10151A	111-2555	1.64	1.51	1.38	1.16	--
20	XF2M20151A	111-2558	2.07	1.86	1.67	1.44	--
24	XF2M24151A	111-2559	2.44	2.21	1.99	1.67	--
30	XF2M30151A	111-2560	2.84	2.54	2.31	1.96	--
35	XF2M35151A	111-2561	3.04	2.73	2.50	2.15	--
40	XF2M40151A	111-2562	3.27	2.99	2.66	2.28	--
45	XF2M45151A	111-2563	3.67	3.31	3.02	2.54	--
50	XF2M50151A	111-2564	3.78	3.43	3.15	2.63	--

**Flat Flexible Cable**  
0.5mm, 1.0mm and 1.25mm Pitch



- Flat flexible cable for use with FFC/ FCP range of connectors
- Reinforcing tape bonded to underside for cable to ensure easy and accurate insertion into the connector
- Overall length 210mm

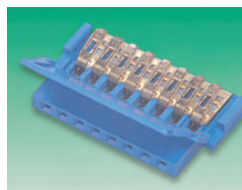
Insulation Material	Polyester (Flame Resistant)	Max operating temperature	80°C
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209525

No. of Ways	Order Code	1+	25+	+	+	+
<b>0.5mm Pitch</b>						
10	329-5000	4.04	3.64	--	--	--
14	329-5011	3.58	3.19	--	--	--
16	329-5023	4.08	3.80	--	--	--
20	329-5035	4.62	4.13	--	--	--
24	335-2640	5.14	4.63	--	--	--
30	329-5047	5.70	5.23	--	--	--
35	335-2651	6.21	5.75	--	--	--
40	335-2663	7.06	6.16	--	--	--
45	335-2675	7.24	6.32	--	--	--
50	335-2687	7.42	6.46	--	--	--
<b>1mm Pitch</b>						
10	329-5059	1.82	1.66	--	--	--
14	329-5060	2.07	1.89	--	--	--
16	329-5072	2.31	2.13	--	--	--
20	329-5084	2.68	2.51	--	--	--
26	329-5096	3.28	3.11	--	--	--
30	329-5102	4.27	4.09	--	--	--
<b>1.25mm Pitch</b>						
4	329-5114	1.28	--	--	--	--
6	329-5126	1.38	1.33	--	--	--
8	329-5138	1.37	1.30	--	--	--
10	329-5140	1.62	1.49	--	--	--
14	329-5151	1.83	1.63	--	--	--
16	329-5163	1.99	1.79	--	--	--
20	329-5175	3.23	2.97	--	--	--
30	329-5187	4.14	3.72	--	--	--
40	329-5709	6.23	5.69	--	--	--

**Flexible Circuitry Systems "Clincher"**

**Connector Male and Female 2.54mm**



- Terminates flat conductor flat cable or flexible circuitry without cable stripping
- Dual-metal PV contacts
- Clinching portion of the contact forms a gastight crimp to prevent contamination of contact
- Mates with 0.64mm square or round pins on 2.54mm centres
- Latch for flying connection

H=15.49, W=2.54

Contact rating	2 A max	Contact resistance	15 mΩ max
Temperature range	-65 °C to +105 °C	Housing	Polypropylene UL94V-0 Colour Blue

209450

No. of Ways	Mfrs. List No.	Order Code	5+	50+	100+	250+	+
<b>Tin/Lead Plating-Female</b>							
2	65801-002	149-949	0.84	0.75	0.66	0.56	--
4	65801-004	528-341	1.81	1.59	1.44	1.20	--
5	65801-005	528-547	2.28	2.04	1.83	1.53	--
6	65801-006	528-353	2.65	2.37	2.13	1.77	--
7	65801-007	528-572	3.03	2.76	2.43	2.04	--
8	65801-008	528-365	3.28	3.12	2.82	2.34	--
9	65801-009	528-377	3.90	3.48	3.12	2.58	--
10	65801-010	528-389	3.99	3.78	3.39	2.85	--
11	65801-011	528-626	4.74	4.23	3.78	3.15	--
12	65801-012	528-390	5.30	4.71	4.23	3.57	--
<b>Gold Plating</b>							
2	65801-002LF	110-3901	0.90	0.80	0.71	0.62	--
4	65801-004LF	110-3976	1.94	1.70	1.54	1.28	--
5	65801-005LF	110-3983	2.44	2.18	1.96	1.64	--
6	65801-006LF	110-3977	2.84	2.54	2.28	1.89	--
7	65801-007LF	110-3984	3.24	2.95	2.60	2.18	--
8	65801-008LF	110-3978	3.51	3.34	3.02	2.50	--
9	65801-009LF	110-3979	4.17	3.72	3.34	2.76	--
10	65801-010LF	110-3980	4.27	4.04	3.63	3.05	--
12	65801-012LF	110-3981	5.67	5.04	4.53	3.82	--
<b>Order Multiple=1</b>			<b>1+</b>	<b>50+</b>	<b>100+</b>	<b>250+</b>	<b>+</b>
13	65801-013	149-950	5.37	4.77	4.26	3.60	--
14	65801-014	149-986	6.68	5.97	5.40	4.53	--
16	65801-016	150-009	7.61	6.84	6.18	5.19	--
17	65801-017	150-010	8.11	7.23	6.54	5.49	--
20	65801-020	150-083	9.55	8.52	7.71	6.45	--
2	65801-002LF	110-3901	0.90	0.80	0.71	0.62	--
13	65801-013LF	110-3902	5.75	5.10	4.56	3.85	--
14	65801-014LF	110-3903	7.15	6.39	5.78	4.85	--
16	65801-016LF	110-3904	8.14	7.32	6.61	5.55	--
17	65801-017LF	110-3905	8.68	7.74	7.00	5.87	--
20	65801-020LF	110-3906	10.22	9.12	8.25	6.90	--
<b>Order Multiple=10</b>			<b>Price Each</b>				
Latch	78242-001LF	121-1636			10+		
					2.51		

9

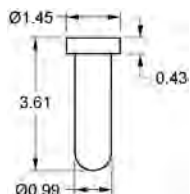
Connectors - PCB

Compliant  
Non-compliant  
+ Limited stock - RoHS replacement available

RoHS

**PCB Shorting Links**

**PCB Sockets  
0.5mm Pins**



A range of sub miniature PCB sockets for 0.5mm pins

- Tapered entry for IC leads
- Four Beryllium copper contact fingers
- Choice of gold or tin finish with nickel undercoat

Inner contact material Beryllium Copper  
 Outer shell 2A  
 Current rating @ 25°C 6N  
 Temperature range -55°C to 125°C  
 Max insertion force 0.5N  
 Min withdrawal force 0.5N  
 Mating Cycles 50500 Tin - Gold  
 Mounting Hole Size Ø 1.00mm - 1.10mm

238651

Order Multiple=25		Plating		Order Code		Price Each	
Mfrs. List No.		25+	100+	250+	1K+	+	
H3153-05	Gold	412-8448	0.33	0.30	0.27	0.20	--

**Insulated Shorting Plugs**



Pin Length = 4.5, Pin dia = 1.0

- 1.0mm diameter contact pins
- Available in three colours.

Housing Polyacetal  
 Contacts Brass Gold plated

Mfrs List No. 0.2"=D3086, 0.25"=D3087, 0.4"=D3088, 0.5"=D3089  
 All plus 98 for black, 99 for red and 97 for blue

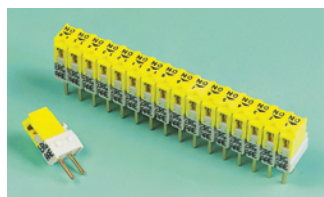
209530

Colour	Order Code	Price Each				
		10+	20+	100+	250+	+
<b>5.08 mm (0.2") Pitch</b>						
Black	149-306	0.80	0.74	0.71	0.60	--
Red	149-307	0.77	0.74	0.71	0.60	--
Blue	149-308	0.77	0.74	0.71	0.60	--
<b>6.35 mm (0.25") Pitch</b>						
Black	149-309	0.90	0.80	0.71	0.57	--
Red	149-310	0.90	0.80	0.71	0.57	--
<b>10.16 mm (0.4") Pitch</b>						
Black	149-312	0.74	0.67	0.63	0.57	--
Red	149-313	0.74	0.67	0.63	0.57	--
Blue	149-314	0.74	0.67	0.63	0.57	--
<b>12.7 mm (0.5") Pitch</b>						
Black	149-315	1.07	0.96	0.90	0.77	--
Red	149-316	1.07	0.96	0.90	0.77	--

**Subminiature, PCB Mounting - JS Series**



10VA @ 100V



- Switchable SPST jumper for switching PCB track signals with a positive tactile click
- Supplied in packs of 16 switches in one unit saving loading time on production
- Can be cut with a modelling knife to achieve any switch combination
- PCB pins are on 2.54mm (0.1") centres
- Hard gold plated wiping contacts

H=8.4, W=2.54, D=6.1

Contact rating 5A @ 100V ac (non switching)  
 1µ to 1A, 1mV to 100V (switching)  
 Initial contact resistance 10mΩ typical (@ 10VA, 10mA max)

Insulation resistance 1000MΩ @ 500V dc  
 Operating temp. -55°C to +85°C

209491

Mfrs. List No.		Order Code		Price Each		
1+	4+	10+	20+	+	+	
JSA4-16-GO	986-501	9.04	8.47	7.97	6.80	--

**Uninsulated Shorting Plugs**



Gold Plated Brass



H=9.0, Pin dia=1.0

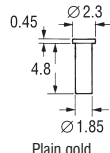
Mfrs. List No. D3082F05 = 175-318,  
 D3082F05 = 175-319,

209531

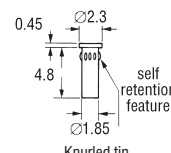
25 Per Pack		Order Code		Price Per Pack				
5.08mm (0.2")	10.16mm (0.4")	1+	25+	50+	100+	+	+	
		175-318	7.01	6.32	5.81	4.94	--	
		175-319	8.58	7.86	7.22	6.07	--	

**PCB Mounting Jack Sockets**

**PCB Sockets  
1.0mm Pins**



Plain gold



Knurled tin

- Three options available with gold plated four leaf inner contacts
- Gold or outer tin body plating with plain or knurled sleeve, for slide or press fit

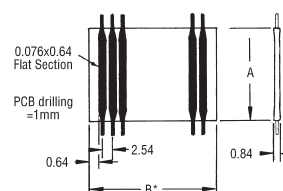
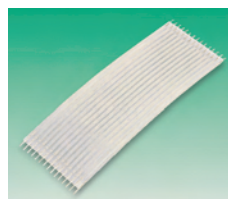
Mfrs. List No. H3161-01 = 149-318 H3161-05 = 149-319 H3183-05 = 150-501

209534

Mfrs. List No.	Order Code	Price Each				
		25+	100+	250+	1K+	+
Tin, knurled	149-318	0.42	0.39	0.32	0.22	--
Gold, knurled	149-319	0.55	0.48	0.45	0.32	--
Gold, plain	150-501	0.58	0.51	0.48	0.35	--

**2.54mm Flexstrip Jumper System**

**Cable-Teflon**



- Fast, low cost reliable interconnection between rigid PCBs
- Engineered for failure free flexing
- Can be hand or flow soldered, no stripping or cutting to length
- Flat conductors for flexibility, round pins for easy insertion
- 10 to 30 ways, can be cut into smaller numbers of ways

Resistance per 10mm 0.21mΩmax  
 Current rating 2A  
 Rated voltage 600V ac

Rated temperature 150°C  
 Conductor 1/24AWG  
 Rated temperature Teflon

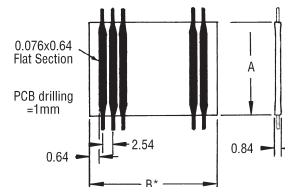
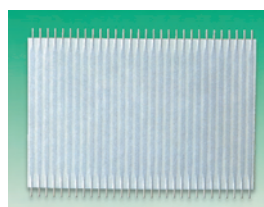
\*10 Way width 'B' = 24.1mm, 15 Way width 'B' = 36.8mm, 20 Way width 'B' = 49.5mm,  
 30 Way width 'B' = 74.9mm

Mfrs List No. FST2xAy, where x=length in inches, y=No. of ways

209375

Length (A)	mm	inches	Order Code	Price Each			
				1+	100+	+	+
<b>10 Way</b>							
25.4		1	315-060	10.24	9.34	--	--
50.8		2	315-072	5.90	5.46	--	--
76.2		3	315-084	7.84	7.23	--	--
101.6		4	151-957	10.13	9.34	--	--
<b>15 Way</b>							
25.4		1	151-958	6.13	5.64	--	--
50.8		2	112-2916	8.79	8.10	--	--
76.2		3	112-2918	11.30	10.37	--	--
101.6		4	151-961	14.57	13.52	--	--
<b>20 Way</b>							
25.4		1	151-962	7.96	7.42	--	--
50.8		2	151-963	11.40	10.56	--	--
76.2		3	112-2919	15.62	14.35	--	--
101.6		4	151-965	19.37	17.98	--	--
<b>30 Way</b>							
25.4		1	315-096	12.01	11.14	--	--
50.8		2	315-102	17.91	16.55	--	--
76.2		3	112-2943	22.84	20.94	--	--
101.6		4	151-966	31.20	28.32	--	--

**Cable - Low Cost Nomex**



30 Way, 2 inch=650-626

- Complements existing Flexstrip
- Alternative insulation material, Nomex
- Used in areas where Teflon temperature spec. is not required
- May be installed using conventional soldering techniques
- Stock sizes are 10 way to 30 way

Resistance per 10mm 2.1mΩmax Rated temperature +125°  
 Current rating 3A Conductor 1/24AWG  
 Rated voltage 300V ac Insulation material Nomex

10 Way width B=24.1mm, 15 Way width B=36.8mm, 20 Way width B=49.5mm,  
 30 Way width B=74.9mm,

Length (A) mm	Mfrs. ins List No.	Order Code	1+	100+	+	+
<b>10 Way</b>						
25.4	1	FSN21A10	650-493	3.65	3.40	---
50.8	2	FSN22A10	650-500	3.94	3.62	---
76.2	3	FSN23A10	650-511	4.49	4.09	---
101.6	4	FSN24A10	650-523	4.51	4.16	---
<b>15 Way</b>						
25.4	1	FSN21A15	650-535	5.46	5.06	---
50.8	2	FSN22A15	650-547	5.90	5.46	---
76.2	3	FSN23A15	650-559	6.62	6.10	---
101.6	4	FSN24A15	650-560	6.77	6.25	---
<b>20 Way</b>						
25.4	1	FSN21A20	650-572	7.45	6.73	---
50.8	2	FSN22A20	650-584	8.04	7.27	---
76.2	3	FSN23A20	650-596	8.83	8.13	---
101.6	4	FSN24A20	650-602	9.01	8.32	---
<b>30 Way</b>						
25.4	1	FSN21A30	650-614	10.96	10.09	---
50.8	2	FSN22A30	650-626	12.02	10.88	---
76.2	3	FSN23A30	650-638	12.98	11.76	---
101.6	4	FSN24A30	650-640	13.79	12.47	---

**2.54mm Pitch KK Connectors**

- End stackable (two only) crimp socket connectors
  - Mates with rigid pin headers assembled in a nylon carrier 'wafer' strip
  - Features friction lock, polarising wall and pegs, ensures correct assembly.
  - Crimp terminals utilise a double cantilever contact designed for high uniform contact pressure
  - Approvals, **CSA**
  - **UL** recognised
- Maximum voltage 250V ac Body material White nylon, **UL94V-0**  
 Maximum current 2.5A Terminals Tin plated  
 Contact resistance 20mΩ max. Engage force per circuit 199g max.  
 Dielectric strength 1.5kV rms for 60 secs Disengage force per circuit 57g min  
 Temperature range -40°C to +105°C

**Crimp Terminal for 2.50 and 2.54mm**



Wire Size mm<sup>2</sup> 0.055-0.336 Wire Size AWG 30-22 Insulation Diameter 0.062- Engineering No. 4809 Mfrs. List No. 08-50-0032

Pack Quantity	Order Code	1+	5+	10+
100	143-116‡	11.43	10.44	10.11
1000	143-201‡	100.09	94.05	89.88

**Crimp Terminal Housing (with Locking Ramp)**



Mfrs. List No. 22-01-2xx5 = Housing where xx = No of ways.  
 15-04-9209 = Polarising Pin  
 Engineering No. 6471 = Housing  
 4161-1 = Polarising Pin

No of Ways	Order Code	10+	100+	Price Each 500+	1K+	+
<b>Crimp Housing</b>						
2	143-126	0.36	0.24	0.19	---	---
3	143-127	0.38	0.24	0.19	---	---
4	143-128	0.41	0.27	0.22	---	---
5	146-256	0.47	0.31	0.25	---	---
6	143-129	0.53	0.35	0.28	---	---
7	473-080	0.57	0.38	0.31	---	---
8	143-130	0.63	0.42	0.34	---	---
9	231-897	0.58	0.38	0.31	---	---
10	143-131	0.72	0.48	0.39	---	---
11	231-666	0.98	0.65	0.52	---	---
12	257-345	0.79	0.52	0.42	---	---
13	231-678	0.87	0.69	0.63	0.47	---
14	231-680	0.93	0.62	0.50	---	---
15	269-232	0.98	0.65	0.52	---	---
16	473-091	1.03	0.68	0.55	---	---
17	231-691	1.23	0.81	0.65	---	---
18	231-708	1.50	0.99	0.80	---	---

No of Ways	Order Code	10+	100+	Price Each 500+	+	+
<b>Crimp Housing</b>						
19	473-108	1.59	1.05	0.85	---	---
20	473-110	1.43	0.94	0.76	---	---
21	473-121	1.71	1.13	0.91	---	---
Pack Quantity	Order Code	Price Per Pack				
		1+	+	+		
<b>Polarising Pin</b>						
100	143-117‡	20.31	---	---	---	---
100	101-3095	24.06	---	---	---	---
1000	143-202‡	130.50	---	---	---	---
1000	101-2165	143.82	---	---	---	---

**PCB Headers, low profile Top and Bottom Entry**



**NEW**

- New design enables almost a 50% reduction in height
  - Enables both top and bottom entry and retrofits into existing 2.54mm KK PCB layouts
- Mfrs. List No. 044-81-200xx where x=No. of ways

No. of Ways	Order Code	5+	50+	100+	500+	+	+
2	856-6666	1.17	1.07	1.04	1.01	---	---
3	856-6674	1.24	1.14	1.11	1.07	---	---
4	856-6682	1.30	1.20	1.17	1.14	---	---
5	856-6690	1.40	1.27	1.24	1.20	---	---
6	856-6704	1.50	1.33	1.30	1.27	---	---
7	856-6712	1.56	1.40	1.37	1.33	---	---
8	856-6720	1.63	1.46	1.43	1.40	---	---
9	856-6739	1.73	1.53	1.50	1.46	---	---
10	856-6747	1.79	1.59	1.56	1.53	---	---
11	856-6755	1.89	1.69	1.63	1.59	---	---
12	856-6763	1.95	1.76	1.73	1.69	---	---
13	856-6771	2.05	1.82	1.76	1.73	---	---
14	856-6780	2.21	1.95	1.89	1.86	---	---
15	856-6798	2.38	2.12	2.05	1.99	---	---
16	856-6801	2.54	2.28	2.21	2.15	---	---

**PCB Sockets**



Side entry Top entry Bottom entry (through PCB)

Mfrs. List No. 38-00-133x=Side Entry, 38-00-142x=Top Entry, 38-00-139x=Bottom Entry where x=No. of ways (except 10 way where x=0)

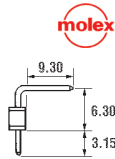
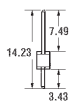
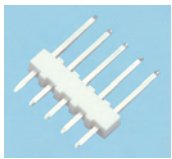
Engineering No. 4455C-NAAA=Side entry, 4455C-NCAA=Top entry, 4455C-NBAA=Bottom entry

No of Ways	Order Code	5+	100+	500+	+	+
<b>Side Entry</b>						
2	143-150‡	0.90	0.60	0.49	---	---
2	973-1253	1.07	0.68	0.55	---	---
3	143-151‡	1.03	0.68	0.55	---	---
3	973-1261	1.22	0.77	0.62	---	---
4	143-152‡	1.31	0.87	0.70	---	---
4	973-1270	1.56	0.98	0.80	---	---
5	143-153‡	1.38	0.91	0.74	---	---
5	973-1288	1.64	1.03	0.84	---	---
6	143-154‡	1.58	1.04	0.85	---	---
6	973-1296	1.87	1.18	0.96	---	---
8	143-155‡	2.05	1.35	1.10	---	---
8	973-1300	2.05	1.39	1.13	---	---
10	143-156‡	2.23	1.47	1.19	---	---
10	973-1318	2.23	1.52	1.23	---	---
12	257-357	2.77	1.83	1.48	---	---
15	269-244‡	3.60	2.38	1.93	---	---
10	973-1318	2.23	1.52	1.23	---	---
<b>Top Entry</b>						
2	151-902‡	0.99	0.66	0.53	---	---
2	973-2241	1.18	0.74	0.60	---	---
3	151-903‡	1.30	0.86	0.70	---	---
3	973-2250	1.55	0.98	0.79	---	---
4	151-904‡	1.50	0.99	0.80	---	---
4	973-2268	1.78	1.12	0.91	---	---
5	151-905‡	1.38	0.91	0.74	---	---
5	973-2276	1.64	1.03	0.84	---	---
6	151-906‡	1.58	1.04	0.85	---	---
6	973-2292	1.87	1.18	0.96	---	---
8	151-907‡	2.05	1.35	1.10	---	---
8	973-2306	2.05	1.39	1.13	---	---



No of Ways	Order Code	Price Each					
		5+	100+	500+	+	+	+
<b>Top Entry</b>							
10	151-908‡	2.82	1.86	1.51	--	--	--
10	973-2314●	2.82	1.92	1.56	--	--	--
12	257-369●	2.89	1.91	1.54	--	--	--
15	269-256‡	3.55	2.34	1.90	--	--	--
15	973-2691●	3.55	2.41	1.95	--	--	--
<b>Bottom Entry</b>							
2	151-909‡	1.39	0.92	0.74	--	--	--
2	973-2322●	1.65	1.04	0.84	--	--	--
4	151-911‡	1.96	1.29	1.05	--	--	--
4	973-2330●	2.32	1.47	1.17	--	--	--
5	151-912‡	1.79	1.18	0.96	--	--	--
5	973-2349●	2.12	1.34	1.08	--	--	--
6	151-913	2.59	1.71	1.38	--	--	--
8	151-914‡	2.59	1.71	1.38	--	--	--
8	973-2357●	2.59	1.76	1.42	--	--	--
10	151-915‡	2.78	1.83	1.48	--	--	--
10	973-2365●	2.78	1.89	1.53	--	--	--

**Square Pin Headers**



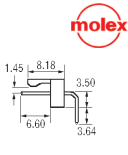
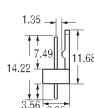
PCB hole dia. = 1.02 ± 0.05

Mftrs. List No. 22-03-2xx1 = Straight Header Engineering No. 4030 = Straight Header  
 22-05-2xx1 = 90° Header 4094 = 90°  
 where xx = No of ways

209394

No of Ways	Order Code	Price Each					
		10+	100+	200+	500+	+	+
<b>Straight Header</b>							
2	143-132‡	0.51	0.34	--	--	--	--
2	973-1075●	0.60	0.38	--	--	--	--
3	143-133‡	0.62	0.41	--	--	--	--
3	973-1083●	0.73	0.46	--	--	--	--
4	143-134‡	0.75	0.49	--	--	--	--
4	973-1091●	0.89	0.56	--	--	--	--
5	143-135‡	1.10	0.90	0.81	0.63	--	--
5	973-1105●	0.98	0.62	--	--	--	--
6	143-136‡	0.95	0.62	--	--	--	--
6	973-1113●	1.12	0.71	--	--	--	--
8	143-137‡	1.19	0.78	--	--	--	--
8	973-1121●	1.41	0.89	--	--	--	--
10	143-138‡	1.18	0.77	--	--	--	--
10	973-1130●	1.39	0.88	--	--	--	--
12	257-370‡	2.40	2.16	2.01	1.86	--	--
12	973-2543●	1.92	1.21	--	--	--	--
15	269-268‡	2.00	1.32	--	--	--	--
15	973-2705●	2.37	1.50	--	--	--	--
<b>90° Header</b>							
2	143-144‡	0.79	0.52	--	--	--	--
2	973-1199●	0.93	0.59	--	--	--	--
3	143-145‡	0.90	0.59	--	--	--	--
3	973-1202●	1.07	0.67	--	--	--	--
4	143-146‡	1.05	0.69	--	--	--	--
4	973-1210●	1.24	0.78	--	--	--	--
5	143-965‡	1.13	0.75	--	--	--	--
5	973-1598●	1.34	0.85	--	--	--	--
6	143-147‡	1.27	0.84	--	--	--	--
6	973-1229●	1.50	0.95	--	--	--	--
8	143-148‡	2.53	2.25	2.10	1.89	--	--
8	973-1237●	1.81	1.14	--	--	--	--
10	143-149‡	1.73	1.14	--	--	--	--
10	973-1245●	2.05	1.29	--	--	--	--
12	257-382‡	2.08	1.32	--	--	--	--
12	973-2551●	2.38	1.50	--	--	--	--
15	269-270‡	2.65	1.75	--	--	--	--
15	973-2713●	3.15	1.98	--	--	--	--

**Square Pin Header (with Friction Lock)**



PCB hole dia. = 1.02 ± 0.05

Mftrs. List No. 22-27-2xx1 = Straight Header  
 22-05-7xx8 = 90° Header  
 where xx = No of ways

Engineering No. 6410 = Straight Header  
 7395 = 90° Header

209395

No of Ways	Order Code	Price Each					
		10+	100+	500+	+	+	+
<b>Straight Header</b>							
2	143-139‡	0.75	0.50	0.40	--	--	--
2	973-1148●	0.75	0.51	0.41	--	--	--
3	143-140‡	0.91	0.60	0.48	--	--	--
3	973-1156●	0.91	0.62	0.50	--	--	--
4	143-141‡	1.00	0.66	0.53	--	--	--
4	973-1164●	1.00	0.68	0.55	--	--	--
5	146-698‡	1.09	0.72	0.58	--	--	--
5	973-1679●	1.09	0.74	0.60	--	--	--
6	143-142‡	1.34	0.88	0.71	--	--	--
6	973-1172●	1.34	0.91	0.73	--	--	--
8	143-143‡	1.62	1.07	0.86	--	--	--
8	973-1180●	1.62	1.10	0.89	--	--	--
10	143-523‡	1.81	1.20	0.97	--	--	--
10	973-1580●	1.81	1.23	1.00	--	--	--
12	257-394‡	2.35	1.57	1.27	--	--	--
12	973-2560●	2.35	1.62	1.31	--	--	--
15	269-281‡	2.52	1.66	1.35	--	--	--
15	973-2721●	2.52	1.71	1.39	--	--	--
<b>90° Header</b>							
2	146-691‡	0.86	0.57	0.46	--	--	--
2	973-1601●	1.02	0.65	0.52	--	--	--
3	146-692‡	1.10	0.73	0.59	--	--	--
3	973-1610●	1.31	0.83	0.67	--	--	--
4	146-693‡	1.35	0.89	0.72	--	--	--
4	973-1628●	1.60	1.01	0.82	--	--	--
5	146-694‡	1.38	0.91	0.74	--	--	--
5	973-1636●	1.64	1.03	0.84	--	--	--
6	146-695‡	1.64	1.08	0.88	--	--	--
6	973-1644●	1.94	1.23	0.99	--	--	--
8	146-696‡	2.14	1.41	1.15	--	--	--
8	973-1652●	2.54	1.60	1.27	--	--	--
10	146-697‡	2.45	1.62	1.31	--	--	--
10	973-1660●	2.91	1.83	1.46	--	--	--
12	257-400‡	2.91	1.92	1.56	--	--	--
12	973-2578●	3.45	2.18	1.73	--	--	--
15	269-293‡	3.66	2.42	1.96	--	--	--
15	973-2730●	3.66	2.49	2.01	--	--	--

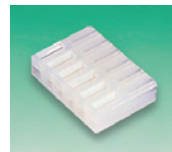
**3.96mm Pitch KK Connectors**

- Max 7A
- End stackable crimp socket connectors
- Mates with rigid pin headers assembled in a nylon carrier 'wafer' strip
- Features friction lock, polarising walls and pegs, ensures correct assembly
- Crimp terminals utilise a double cantilever contact design for high uniform contact pressure
- Approvals, CSA and UL recognised

Maximum voltage 250V ac Body material White nylon UL94V-2  
 Maximum Current 7A Black nylon UL94V-0  
 Contact resistance 20mΩ max. Engage force per circuit 680g max.  
 Dielectric strength 1.5kV rms for 60 secs Disengage force per circuit 113g min.  
 Temperature range -40°C +105°C

209440

**Crimp Terminal Housing (with Locking Ramp)**



Mftrs. List No. 09-91-xx00 where xx = No of ways  
 Engineering No. 3069

209441

No of Ways	Order Code	Price Each					
		10+	100+	250+	500+	+	+
2	143-157●	0.41	0.31	0.28	0.22	--	--
3	143-158●	0.47	0.38	0.34	0.25	--	--
4	143-159●	0.53	0.41	0.38	0.28	--	--
5	257-485●	0.53	0.44	0.38	0.34	--	--
6	143-160●	0.56	0.44	0.41	0.31	--	--
8	143-161●	0.63	0.50	0.44	0.34	--	--
10	143-522‡	0.78	0.63	0.56	0.48	--	--
12	257-497●	0.93	0.72	0.66	0.58	--	--
13	473-194●	0.96	0.75	0.69	0.60	--	--
14	473-200●	0.99	0.78	0.72	0.61	--	--

**0.156" and 0.2" Crimp Terminal**  
(Wire Size 0.336 to 0.933mm<sup>2</sup>)

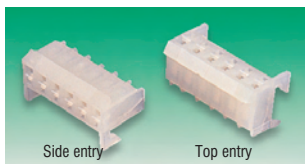


Wire Size mm <sup>2</sup>	AWG	Insulation Dia. Max.	Mfrs. List No.	Pack Quantity	Order Code
0.124-0.22	28-22		08-50-0108..	100	143-194
0.124-0.22	28-22		08-50-0108.	100	143-199
0.124-0.22	28-22		08-50-0108	100	101-2164
0.336-0.933	24-18		08-50-0106..	100	143-193
0.336-0.933	24-18		08-50-0106.	100	143-198
0.336-0.933	24-18		08-50-0106	100	101-2163

209442

Pack Quantity	Order Code	1+	5+	10+
100	143-194‡	11.43	9.99	7.96
100	101-3098●	8.70	--	--
100	143-199‡	74.34	64.89	59.04
1000	101-2164●	61.86	--	--
100	143-193‡	11.43	9.99	7.96
100	101-3097●	10.18	--	--
100	143-198‡	74.34	64.89	59.36
1000	101-2163●	66.28	--	--

**PCB Sockets**



Mfrs. List No. 26-11-6xx4=Side entry 26-11-2xx3=Top entry where xx=No. of ways  
Engineering No. 3215-A=Side entry 3215-C=Top entry

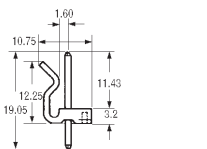
209462

No of Ways	Order Code	1+	10+	100+	500+	+	+
<b>Side Entry</b>							
3	151-916‡	1.65	1.32	1.20	1.01	--	--
3	973-2373●	1.83	1.54	1.02	0.75	--	--
4	151-917‡	2.03	1.59	1.44	1.08	--	--
4	973-2381●	2.03	1.71	1.11	0.83	--	--
5	257-503‡	2.28	1.80	1.62	1.39	--	--
5	973-2616●	2.88	2.42	1.57	1.18	--	--
6	151-918‡	2.78	2.19	2.01	1.50	--	--
6	973-2390●	3.05	2.56	1.66	1.25	--	--
8	151-919‡	3.07	2.40	2.19	1.65	--	--
8	973-2403●	3.38	2.85	1.84	1.38	--	--
10	151-920‡	3.40	2.67	2.43	1.83	--	--
10	973-2411●	3.74	3.15	2.04	1.53	--	--
<b>Top Entry</b>							
3	151-921‡	1.65	1.32	1.20	0.88	--	--
3	973-2420●	1.82	1.53	1.01	0.74	--	--
4	151-922‡	2.04	1.59	1.47	1.24	--	--
4	973-2438●	2.26	1.90	1.23	0.92	--	--
6	151-923‡	2.79	2.19	2.01	1.69	--	--
6	973-2446●	3.51	2.95	1.91	1.43	--	--
8	151-924‡	3.09	2.43	2.22	1.88	--	--
8	973-2454●	3.89	3.28	2.12	1.59	--	--
10	151-925‡	3.39	2.67	2.43	2.08	--	--
10	973-2462●	3.78	3.18	2.06	1.54	--	--
12	257-515‡	3.93	3.09	2.82	2.39	--	--
12	973-2624●	4.97	4.18	2.70	2.03	--	--

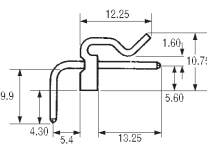
**Square Pin Headers (with Friction Lock)**



Straight header with friction lock



90° header with friction lock



Tin plated brass pins. Pin size = 1.14 x 1.14. PCB hole dia = 1.8

Mfrs. List No. 39-26-3xx0= Straight header  
39-28-0xx8=90° header, where xx=No of ways.  
Engineering No. 5417= Straight header  
5180=90° header

209413

No of Ways	Order Code	10+	100+	250+	500+	+	+
<b>Straight Header</b>							
2	112-5178●	0.90	0.71	0.63	0.50	--	--
3	112-5144●	1.01	0.64	0.52	--	--	--
4	112-5145●	1.59	1.00	0.81	--	--	--

Ways	Order Code	10+	100+	250+	500+	+	+
<b>Straight Header</b>							
5	112-5146●	1.75	1.10	0.90	--	--	--
6	112-5147●	1.92	1.21	0.98	--	--	--
8	112-5148●	2.25	1.42	1.13	--	--	--
10	112-5150●	2.64	1.67	1.33	--	--	--
		5+	100+	500+	+	+	+
<b>90° Header</b>							
3	112-5153●	2.04	1.34	1.09	--	--	--
4	112-5158●	2.34	1.54	1.25	--	--	--
5	112-5161●	3.23	2.13	1.72	--	--	--
6	112-5164●	3.18	2.10	1.70	--	--	--
8	112-5165●	3.62	2.39	1.93	--	--	--
10	112-5166●	4.70	3.10	2.51	--	--	--

**3.96mm Pitch Pin Headers and Sockets**

**VH Connector Series**

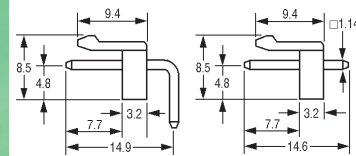
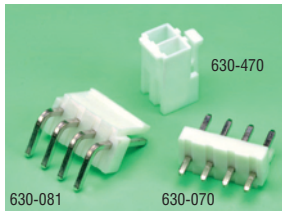


- Compact pcb connector with a large current carrying capacity
- Anti-vibration lock mechanism
- End stackable without loss of circuits
- Approvals: **CSA** and **UL** recognised

Current rating: 7A ac/dcA  
Voltage rating: 250V ac/dcV  
Withstand voltage: 1500Vac/1minute  
Insulation resistance: ≥1000MΩ ac/dc  
Temperature range: -25°C to +85°C  
Housing: Nylon 6 UL94V-0

209478

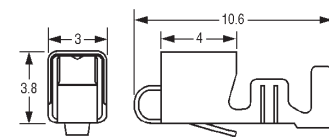
**Pin Headers and Sockets**



209480

No of Ways	Mfrs. List No.	Order Code	5+	10+	50+	100+	+	+
<b>Header - Top Entry</b>								
2	B2P-VH	630-019▲‡	0.49	0.43	0.36	0.31	--	--
3	B3P-VH	630-020▲‡	0.61	0.54	0.45	0.39	--	--
4	B4P-VH	630-070▲‡	0.77	0.67	0.58	0.48	--	--
<b>Header - Side Entry</b>								
2	B2PS-VH	630-081▲‡	0.59	0.51	0.44	0.36	--	--
3	B3PS-VH	630-457▲‡	0.73	0.64	0.57	0.47	--	--
4	B4PS-VH	630-469▲‡	0.95	0.83	0.71	0.54	--	--
<b>Housing</b>								
2	VHR-2N	630-470●	0.25	0.21	0.18	0.15	--	--
3	VHR-3N	630-482●	0.27	0.24	0.20	0.17	--	--
4	VHR-4N	630-494●	0.32	0.28	0.24	0.17	--	--

**Crimp Terminal**

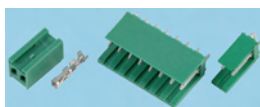


Wire Size mm<sup>2</sup> 0.33-0.83  
AWG 22-18  
Insulation Dia. O.D. 1.7-  
Mfrs. List No. SVH-21T-P1.1  
Order Code 630-500

209481

Order Code	10+	100+	250+	500+
630-500●	0.24	0.19	0.16	0.14

**Crimp Housings, Headers and Contacts**



- Rugged connector system featuring 0.79 x 1.57mm posts with mating receptacles
- 5 Amp current rating
- Contacts available in tin and gold plating
- Flame retardant thermoplastic housings to UL

**NEW**

9

Connectors - PCB

Compliant  
Non-compliant  
Limited stock - RoHS replacement available  
**RoHS**

94V-1  
 ● Shrouded pin headers are polarised and detented

386441

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			10+	50+	100+	500+
<b>Order Multiple = 10</b>						
<b>Receptacle Housings</b>						
2	280590	869-3005	0.40	0.37	0.35	0.28
4	280591	869-3013	0.88	0.81	0.75	0.62
6	280592	869-3021	1.17	1.04	0.98	0.85
8	280593	869-3030	1.46	1.30	1.20	1.04
10	280594	869-3048	1.76	1.59	1.43	1.24
12	280595	869-3056	3.48	3.16	2.83	2.51
Polarising Pin	87116-2	869-3099	0.88	0.81	0.75	0.62
<b>Pin Headers - Straight Tin Plated</b>						
2	280609-1	869-3102	0.61	0.55	0.48	0.41
4	280610-1	869-3129	1.27	1.14	1.04	0.91
6	280611-1	869-3145	1.66	1.50	1.33	1.17
8	280612-1	869-3170	1.95	1.79	1.59	1.37
10	280613-1	869-3196	2.31	2.12	1.89	1.66
12	280614-1	869-3218	2.70	2.47	2.21	1.92
<b>Pin Headers - 90° Tin Plated</b>						
2	280615-1	869-3234	0.68	0.62	0.55	0.48
4	280616-1	869-3250	1.27	1.14	1.04	0.91
6	280617-1	869-3277	1.76	1.59	1.43	1.24
8	280618-1	869-3293	2.12	1.95	1.73	1.53
10	280619-1	869-3315	2.54	2.28	2.08	1.79
12	280620-1	869-3331	2.90	2.64	2.41	2.08
<b>Order Multiple = 1</b>			<b>1+</b>	<b>10+</b>	<b>50+</b>	<b>100+</b>
<b>Pin Headers - Straight Gold Plated</b>						
2	280609-2	869-3110	1.27	1.14	1.04	0.91
4	280610-2	869-3137	2.54	2.28	2.08	1.79
6	280611-2	869-3153	3.87	3.52	3.12	2.77
8	280612-2	869-3188	4.04	3.68	3.29	2.90
10	280613-2	869-3200	4.82	4.39	3.94	3.48
12	280614-2	869-3226	8.72	7.88	7.10	6.28
<b>Pin Headers - 90° Gold Plated</b>						
2	280615-2	869-3242	1.46	1.30	1.20	1.04
4	280616-2	869-3269	2.90	2.64	2.41	2.08
6	280617-2	869-3285	3.58	3.22	2.93	2.57
8	280618-2	869-3307	4.46	4.00	3.65	3.16
10	280619-2	869-3323	5.37	4.82	4.33	3.81
12	280620-2	869-3340	9.57	8.69	7.81	6.87
<b>Contacts - 18 - 22 AWG</b>						
Tin, High	181299-1	869-3072	0.30	0.27	0.24	0.21
Contact Pressure	182198-1	869-3080	0.30	0.27	0.24	0.21
Gold Plate	181299-2	869-3064	1.33	1.20	1.11	0.98
<b>Tooling</b>						
Pro Crimper Hand Tool + Die	1285002-1	869-3358	662.25	--	--	--
Extraction Tool	58654-1	869-3366	1,356.41	--	--	--
	843473-1	348-3897	35.37	28.92	27.21	25.53

**5.08mm Pitch KK Connectors**

- Max 7A
- Same specification as the 0.156" connectors
- For 3.96mm pitch SEE PAGE 420

Maximum voltage	250V ac	Engaged force per circuit	680g max.
Maximum current	7A	Disengage force per circuit	113g min.
Temperature range	-40°C to +105°C	Wire conductor diameter	0.336 - 0.933mm <sup>2</sup>
Contact resistance	20mΩ max.		0.124 - 0.22mm <sup>2</sup>
Dielectric strength	1.5kV rms for 60 secs		
Body	Clear Nylon UL94V-2	Insulation diameter (max)	2.79mm
			1.65mm

**Crimp Terminal Housings**

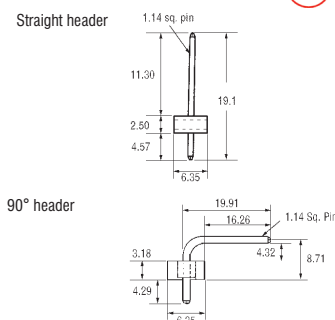
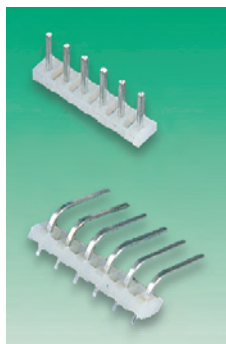


Mfrs. List No. 10-01-1xx4 where xx=No of ways  
 Engineering No. 3001

219786

No of Ways	Order Code	Price Each					
		10+	100+	250+	500+	+	+
2	143-181	0.50	0.41	0.36	0.31	--	--
3	143-182	0.56	0.44	0.41	0.38	--	--
4	143-183	0.63	0.50	0.47	0.41	--	--
5	257-539	0.75	0.59	0.53	0.41	--	--
6	143-184	0.78	0.59	0.56	0.41	--	--
8	143-185	0.97	0.75	0.69	0.53	--	--
10	143-186	1.03	0.81	0.75	0.69	--	--
10	973-1385	1.21	0.76	0.62	--	--	--
12	257-540	1.50	1.20	1.05	0.81	--	--

**Square Pin Headers**



PCB hole dia.= 1.57 0.00 -0.13

Mfrs. List No. 10-16-1xx1= Straight Header, 10-06-1xx5=90° Header, where xx=No of ways  
 Engineering No. 3008= Straight Header, 3061=90° Header

209511

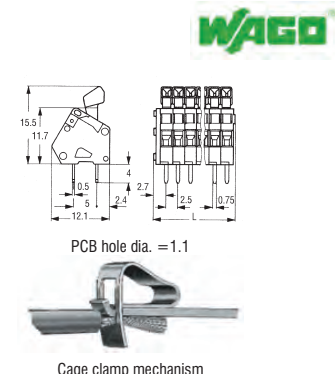
No of Ways	Order Code	Price Each					
		10+	100+	250+	500+	+	+
<b>Straight Header</b>							
2	143-187	0.63	0.50	0.44	0.34	--	--
2	973-1393	0.75	0.47	0.38	--	--	--
3	143-188	0.75	0.59	0.56	0.50	--	--
3	973-1407	0.88	0.56	0.45	--	--	--
4	143-189	0.90	0.72	0.66	0.59	--	--
4	973-1415	1.05	0.67	0.54	--	--	--
5	257-564	1.10	0.90	0.81	0.75	--	--
5	973-2640	1.31	0.83	0.67	--	--	--
6	143-190	1.31	1.02	0.93	0.72	--	--
6	973-1423	1.54	0.97	0.79	--	--	--
8	143-191	1.72	1.38	1.29	1.14	--	--
8	973-1431	2.01	1.27	1.03	--	--	--
10	143-192	2.12	1.68	1.56	1.41	--	--
10	973-1440	2.46	1.55	1.23	--	--	--
12	257-576	2.50	1.98	1.83	1.65	--	--
12	973-2659	3.03	1.91	1.52	--	--	--
<b>90° Header</b>							
2	151-926	2.06	1.62	1.50	1.38	--	--
2	973-2470	2.38	1.50	1.20	--	--	--
3	151-927	2.78	2.19	2.04	1.83	--	--
3	973-2489	3.35	2.11	1.68	--	--	--
		<b>1+</b>	<b>10+</b>	<b>100+</b>	<b>500+</b>	<b>+</b>	<b>+</b>
4	151-928	3.31	2.58	2.43	2.22	--	--
4	973-2497	3.99	3.36	2.17	1.63	--	--
6	151-929	4.37	3.42	3.12	2.37	--	--
6	973-2500	5.29	4.45	2.88	2.16	--	--
8	151-930	5.46	4.26	4.02	3.66	--	--
8	973-2519	6.58	5.54	3.58	2.69	--	--
10	151-931	6.52	5.13	4.80	4.38	--	--
10	973-2527	7.52	6.33	4.10	3.07	--	--

**PCB Mounting Terminal Blocks**

**Cage Clamp 6A  
 2.5mm Pitch**



L=(No. of polesx 2.5) + 2.3



PCB hole dia. = 1.1

Cage clamp mechanism



- Vibration proof spring cage for fast reliable operation
- Lever action operation, accommodates wire strip length 5-6mm

Maximum voltage 250V ac (Group A)  
125V ac (Group B)  
Current rating 6A  
Maximum temperature 105°C

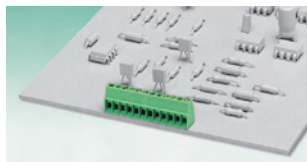
- End stackable by removing one end plate
- Approvals **CSA** (4A @ 150V) and **BV**.
- **UL** (4A @ 125V).

Cage clamp spring Chrome nickel spring steel  
Contact Copper, tin/lead plated  
Housing Nylon 6.6  
Colour Light Grey  
Wire size 0.08-0.5mm<sup>2</sup>

Mfrs. List Nos: 233202=268-859, 233206=268-884, 233203=268-860, 233208=268-896, 233204=268-872, 233212=268-902

No of Ways	Order Code	1+	50+	100+	500+	+
2	<b>268-859</b> ▲	1.67	1.54	1.35	1.16	--
3	<b>268-860</b> ▲	2.33	2.18	1.96	1.64	--
4	<b>268-872</b> ▲	3.14	2.95	2.63	2.21	--
6	<b>268-884</b> ▲	4.41	4.08	3.66	3.15	--
8	<b>268-896</b> ▲	5.97	5.52	4.94	4.24	--
12	<b>268-902</b> ▲	8.91	8.28	7.45	6.32	--

**MPT Series 6A**  
2.54mm Pitch



- Multi position micro printed circuit termination block
- Pitch 2.54mm
- Screw termination
- Use in miniature modules or in terminal equipment

Wire Size 0.14mm<sup>2</sup> to 0.5mm<sup>2</sup> Suitable Screwdriver 0.4 x 2.0mm blade  
Current Rating 6A

No. of Mfrs. Ways	Type No.	Mfrs. List No.	Order Code	1+	25+	100+	250+
2	MPT0.5/2-2.54	1725656	<b>304-1359</b> ●	1.09	1.00	0.96	0.83
3	MPT0.5/3-2.54	1725669	<b>304-1360</b> ●	1.66	1.53	1.45	1.29
4	MPT0.5/4-2.54	1725672	<b>304-1414</b> ●	2.21	1.99	1.89	1.67
6	MPT0.5/6-2.54	1725698	<b>304-1426</b> ●	3.30	3.05	2.89	2.52
8	MPT0.5/8-2.54	1725711	<b>304-1438</b> ●	4.41	4.05	3.86	3.37

**LM Series. PCB Terminal Blocks**  
3.5mm pitch

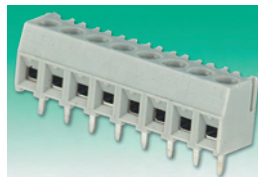


- A range of terminals in 3.5mm pitch
- Rising clamp technology for cable size up to 1.5mm<sup>2</sup>
- Modular stacking for double level or high density requirements
- End to end stacking without loss of Pitch
- **CSA** and **VDE** approved, **UL** recognised

Maximum Voltage 300V  
Current Rating 10A  
Flammability Class Material UL94V-2 PA66

No of Ways	Mfrs. List No.	Order Code	5+	25+	100+	250+	+
<b>Low Level Terminals</b>							
2	LM3.5/02/90 3.2	<b>501-5613</b>	1.07	1.04	1.01	0.98	--
2	LM3.5/02/90 3.2	<b>113-1857</b> ●	1.07	1.04	1.01	0.98	--
3	LM3.5/03/90 3.2	<b>501-5625</b>	1.56	1.46	1.40	1.40	--
3	LM3.5/03/90 3.2	<b>113-1858</b> ●	1.56	1.46	1.40	1.40	--
<b>Medium Level Terminals</b>							
2	LM1N 3.5/2 3.2	<b>501-5637</b>	1.92	1.76	1.69	1.63	--
2	LM1N 3.5/2 3.2	<b>113-1859</b> ●	1.92	1.76	1.69	1.63	--
3	LM1N 3.5/3 3.2	<b>501-5649</b>	2.80	2.67	2.57	2.51	--
3	LM1N 3.5/3 3.2	<b>113-1860</b> ●	2.80	2.67	2.57	2.51	--
<b>Double Level Terminals</b>							
4	LM 2N 3.5/4	<b>501-5650</b>	3.22	3.09	2.96	2.93	--
4	LM 2N 3.5/4	<b>113-1861</b> ●	3.22	3.09	2.96	2.93	--
6	LM 2N 3.5/6	<b>501-5662</b>	4.92	4.78	4.49	4.39	--
6	LM 2N 3.5/6	<b>113-1863</b> ●	4.92	4.78	4.49	4.39	--
8	LM 2N 3.5/8	<b>501-5674</b>	6.51	6.38	5.99	5.89	--
8	LM 2N 3.5/8	<b>113-1865</b> ●	6.51	6.38	5.99	5.89	--
10	LM 2N 3.5/10	<b>501-5686</b>	6.25	6.12	6.09	--	--
10	LM 2N 3.5/10	<b>113-1866</b> ●	6.25	6.12	6.09	--	--
12	LM 2N 3.5/12	<b>501-5698</b>	9.60	9.31	8.92	8.76	--
12	LM 2N 3.5/12	<b>113-1867</b> ●	9.60	9.31	8.92	8.76	--
16	LM 2N 3.5/16	<b>501-5704</b>	12.99	12.43	11.95	11.72	--
16	LM 2N 3.5/16	<b>113-1868</b> ●	12.99	12.43	11.95	11.72	--

**Rising Clamp Type PCB Terminal**  
3.5mm Pitch, Interlocking



- 3.5mm Pitch for high density applications
- Miniature design ideal where space is limited
- Rising clamp for enhanced cable retention
- Integral test probe socket

Pitch 3.5mm Temperature range -40°C To 125°C  
Max cable size 1mm<sup>2</sup> Clamp Nickel Plated Brass  
Max voltage 160V ac Clamp screw Galvanised Steel  
Max current 10A Material Light grey polyamide. UL94V-0

Order Multiple = 5		Price Each				
No. of Mfrs. Ways	List No	Order Code	5+	50+	100+	500+
2	25.195.0253.0	<b>114-2156</b> ●	1.11	1.07	1.04	1.04
3	25.195.0353.0	<b>114-2157</b> ●	1.66	1.59	1.56	1.56
4	25.195.0453.0	<b>114-2158</b> ●	2.21	2.12	2.05	2.05
5	25.195.0553.0	<b>114-2159</b> ●	2.77	2.64	2.54	2.54
5	25.195.0553.0	<b>121-8760</b> ●	2.83	2.73	2.64	2.57
6	25.195.0653.0	<b>121-8763</b> ●	3.06	2.96	2.83	2.77
8	25.195.0853.0..	<b>439-7496</b>	4.43	4.20	4.00	3.97
8	25.195.0853.0	<b>117-2823</b> ●	4.43	4.20	4.00	3.97
10	25.195.1053.0	<b>439-7502</b>	5.53	5.27	5.01	4.95
10	25.195.1053.0	<b>117-2824</b> ●	5.53	5.27	5.01	4.95
12	25.195.1253.0	<b>439-7514</b>	6.61	6.35	6.12	5.86
12	25.195.1253.0	<b>117-2825</b> ●	6.61	6.35	6.12	5.86

**MKDS1 Series 10A**  
3.81mm Pitch



- Multi position printed circuit termination blocks
- Pitch 3.81mm
- Insulating Material Group 1

Wire Size 0.14mm<sup>2</sup> to 1.5mm<sup>2</sup>  
Current Rating 10A  
Surge Voltage Category III III II  
Contamination Class 3 2 2  
Rated Voltage 160 160 320  
Rated Surge Voltage 2.5 2.5

No. of Ways	Mfrs. Type No.	Mfrs. List No.	Order Code	1+	25+	100+	250+
2	MKDS1/2-3.81	1727010	<b>370-4579</b> ●	1.41	1.25	1.16	0.87
3	MKDS1/3-3.81	1727023	<b>370-4580</b> ●	2.18	1.89	1.77	1.32
4	MKDS1/4-3.81	1727036	<b>370-4592</b> ●	2.89	2.54	2.34	1.73
5	MKDS1/5-3.81	1727049	<b>370-4609</b> ●	3.60	3.18	2.92	2.21
6	MKDS1/6-3.81	1727052	<b>370-4610</b> ●	4.30	3.79	3.47	2.60
7	MKDS1/7-3.81	1727065	<b>370-4622</b> ●	5.01	4.43	4.04	3.05
8	MKDS1/8-3.81	1727078	<b>370-4634</b> ●	5.71	5.07	4.65	3.50
9	MKDS1/9-3.81	1727081	<b>370-4646</b> ●	6.45	5.71	5.23	3.95
10	MKDS1/10-3.81	1727094	<b>370-4658</b> ●	7.19	6.32	5.81	4.90
11	MKDS1/11-3.81	1727104	<b>370-4660</b> ●	7.86	6.93	6.39	4.78
12	MKDS1/12-3.81	1727117	<b>370-4671</b> ●	8.63	7.61	6.93	5.23

**Interlocking 10A**  
3.5mm/3.81mm/5.0mm/5.08mm Pitch



- PCB mount straight side entry wire connectors
- Screw termination
- With interlock
- Funnel wire entry
- Open bottom construction: Solder fumes and dirt cannot lay down inside the housing
- Fully washable and IR solderable
- **UL** and **CSA** recognised

Material Housing Blue Nylon NY-FR15, **UL94V-0**  
Material Screw Steel  
Contact Plating Tin  
Contact Rating 10A  
Voltage Rating 200V AC  
Wire Size 14 - 22AWG  
Pin 0.9mm  
Pin Length 4.20mm

232141

No. of Ways	Mftrs. List No.	Order Code	1+	100+	500+	1K+
<b>Straight Version, 3.5mm Pitch</b>						
2	796414-2	378-4836▲‡	1.00	0.87	0.80	0.74
2	1776275-2	109-8611●	1.00	0.87	0.80	0.74
4	796414-4	378-5026▲‡	1.99	1.70	1.57	1.44
4	1776275-4	109-8617●	1.99	1.70	1.57	1.44
<b>Straight Version, 5.0mm Pitch</b>						
2	796416-2	378-4850▲‡	1.12	0.96	0.90	0.83
2	1776491-2	109-8612●	1.12	0.96	0.90	0.83
4	796416-4	378-5040▲‡	2.28	1.93	1.80	1.64
4	1776491-4	109-8619●	2.28	1.93	1.80	1.64
<b>45° Version, 5.0mm Pitch</b>						
3	796422-3	378-4915▲‡	1.19	1.03	0.96	0.87
3	1776252-3	109-8613●	1.19	1.03	0.96	0.87
<b>45° Version, 5.08mm Pitch</b>						
5	796423-5	385-6409▲‡	1.99	1.70	1.54	1.41
5	1776258-5	109-8636●	1.99	1.70	1.54	1.41

**Plug and Header 10A**  
5.0mm Pitch



- Plug, flush mount, interlockable
- Screw termination
- UL, CSA recognised

Colour Blue  
Current Rating 10A @ 300V  
Wire Size 14 - 22AWG  
Insulator Polyester, UL94V-0

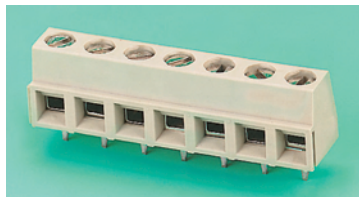
Colour Blue  
Pin Length PCB side Pin Ø = 1.30mm, Pin Length = 3.50mm  
Pin Length Mating side Pin Ø = 1.38mm, Pin Length = 7.00mm

232140

No. of Ways	Mftrs. List No.	Order Code	1+	100+	500+	1K+
<b>Plug</b>						
2	796605-2	378-5105▲‡	0.54	0.47	0.44	0.41
2	1776263-2	109-8622●	0.54	0.47	0.44	0.41
4	796605-4	378-5282	1.06	0.93	0.83	0.77
<b>Header</b>						
2	796606-2	378-5117▲‡	0.20	0.17	0.16	0.15
2	1776489-2	109-8623●	0.20	0.17	0.16	0.15
4	796606-4	378-5312▲‡	0.41	0.36	0.33	0.24
4	1776489-4	109-8625●	0.41	0.36	0.33	0.24
5	796606-5	385-6501▲	0.50	0.44	0.41	0.28

**13.5A**

5.00mm Pitch



- Rising clamp design
- Supplied with open screw to save assembly time
- All metal parts are non-magnetic
- Test probe access built-in
- Can be used in corrosive environments
- UL and CSA listed
- For 1.5mm solid wire
- With interlock
- Side wire entry

Housing Polyamide  
Male Contacts Brass, Tin plated  
Female Contacts Brass, nickel plated  
Operating Voltage 250Vac

209510

No of Ways	Mftrs. List No.	Order Code	1+	25+	100+	250+	+
2	282836-2	308-9034●	0.78	0.72	0.66	0.56	--
3	282836-3	308-9046●	1.13	1.02	0.96	0.84	--
4	282836-4	308-9058●	1.53	1.38	1.29	1.15	--
5	282836-5	308-9060●	1.65	1.53	1.41	1.23	--
6	282836-6	308-9071●	1.80	1.65	1.53	1.37	--
7	282836-7	308-9083●	2.40	2.19	2.01	1.81	--
8	282836-8	308-9095●	2.58	2.34	2.16	1.95	--
9	282836-9	308-9101●	2.79	2.52	2.34	2.11	--
10	1-282836-0	308-9113●	3.03	2.76	2.52	2.28	--
12	1-282836-2	308-9125●	4.38	3.96	3.66	3.30	--

**Low Profile Screw Terminal Blocks**



**5mm Pitch**



1.5mm<sup>2</sup> cable entry

- 2 & 3 pole interlocking
  - 4 -12 pole end stackable
  - 1mm test probe facility and cable protectors
  - Approval UL recognised
- H=10, W=7.5, Pitch=5,  
Pin dia=1.0, PCB hole dia=1.1

Maximum voltage 250V ac  
Current rating 16A  
Temperature range -120°C to +110°C  
Bush clamp 1.5mm<sup>2</sup>  
Maximum wire size 1.5mm<sup>2</sup>  
Clamping screw M2.5 steel zinc passivated  
Cable protector Bronze nickel plated  
Housing Lexan, UL94V-0  
Colour Light Grey

209397

No of Ways	Length mm	Order Code	5+	10+	50+	100+	+
2	10	151-789●	0.96	0.87	0.83	0.71	--
3	15	151-790●	1.43	1.32	1.22	1.03	--
4	20	151-791●	1.90	1.77	1.70	1.35	--
6	30	151-792●	2.47	1.99	1.89	1.51	--
			1+	10+	50+	100+	+
12	60	151-793●	4.84	3.88	3.21	2.38	--

**Interlocking 15A**



**5mm Pitch**



2.5mm<sup>2</sup> cable entry

- 2 through to 8 way interlocking terminal blocks
- Screw terminal
- CSA approved, UL recognised

H=10, W=7.5, Pitch=5, Pin dia=1.0

Maximum voltage 250V ac  
Current rating 15A  
Temperature range -25°C to +100°C  
Bush clamp Brass nickel and tin plated  
Maximum wire size 2.5mm<sup>2</sup>  
Clamping screw M3 Galvanised Steel  
Cable protector Bronze  
Housing Polyamide, UL94V-0  
Colour Light Grey

Mftrs. List No. KRM2=151-785, KRM3=151-786, KRM4=151-787, KRM8=151-788

209400

No of Ways	Length mm	Order Code	5+	10+	50+	100+	+	+
2	10	151-785	1.01	0.90	0.87	0.71	--	--
2	10	117-7875●	1.01	0.90	0.87	0.71	--	--
3	15	151-786	1.67	1.54	1.48	1.28	--	--
3	15	117-7876●	1.67	1.54	1.48	1.28	--	--
4	20	151-787	2.00	1.83	1.77	1.51	--	--
4	20	117-7877●	2.00	1.83	1.77	1.51	--	--
8	20	151-788	2.64	2.02	1.73	1.43	--	--
8	20	117-7878●	3.47	2.66	2.28	1.67	--	--
6	20	871-278	1.99	1.61	1.32	1.00	--	--
6	20	117-7890●	1.99	1.61	1.32	1.00	--	--
7	20	871-280	2.34	1.80	1.54	1.16	--	--
7	20	117-7891●	2.34	1.80	1.54	1.16	--	--

**Cage Clamp 16A**

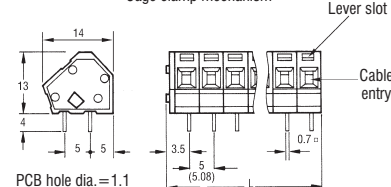
5/5.08mm Pitch



L=(No. of poles x5) +2.3



Cage clamp mechanism



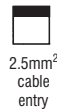
- Vibration proof spring cage clamp, for fast, reliable operation
- Lever action operation by use of a screwdriver or operating tool 258-120 in the adjacent slot
- Accommodates wire strip length 5-6mm
- End stackable, by removal of one end plate
- Approvals, CSA (15A @ 300V) SEV, KEMA-KEUR, OVE, SEMKO and UL Recognised (10A @ 300V), NEMKO, DEMKO and BV.

Maximum voltage 380V ac (Group B)  
250V ac (Group C)  
Current rating 16A  
Maximum temperature 105°C

Cage clamp spring Contact	Chrome nickel spring steel Copper, tin/lead plated	Housing Colour	Nylon 6.6 Light Grey
Mfrs. List No.	236402=258-064, 236403=258-076, 236408=258-106, 236412=258-118, 2366332=258-120,	Wire size	0.08-2.5mm <sup>2</sup>

No of Ways	Order code	5+	50+	100+	500+	+
2	258-064▲	1.01	0.93	0.90	0.77	--
3	258-076▲	1.43	1.38	1.28	1.09	--
4	258-088▲	1.94	1.80	1.70	1.41	--
6	258-090▲	2.63	2.47	2.31	1.96	--
8	258-106▲	3.54	3.34	3.15	2.70	--
12	258-118▲	5.24	5.01	4.69	3.98	--
Operating tool	258-120	1+ 1.02	50+ 0.93	100+ 0.84	500+ --	+

**Rising Clamp Interlocking 16A**  
5mm Pitch



- Interlocking PCB terminal block with rising cable clamp design
- Features good cable retention and repetitive operation
- 1mm test probe facility

H=16, W=9.5, Pitch=5, Pin dia=1.1

Maximum voltage	250V ac	Clamping screw	M3 steel zinc plated
Current rating	16A	Housing	Polyamide UL94V-0
Temperature range	-40°C to +125°C	Colour	Light Grey
Rising cable clamp	Steel zinc plated	Maximum wire size	2.5mm <sup>2</sup>

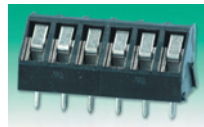
Mfrs. List No. 819/x, where x= No. of ways

209423

**Order Multiple=10**

No of Ways	Length mm	Order Code	5+	50+	100+	500+	+
2	10	151-794	1.21	1.00	0.83	0.67	--
2	10	117-2817●	1.21	1.00	0.83	0.67	--
3	15	151-795	1.77	1.51	1.28	1.00	--
3	15	117-2818●	1.77	1.51	1.28	1.00	--
4	20.5	114-2153●	2.21	1.92	1.59	1.37	--
6	30.5	114-2154●	3.50	3.02	2.74	--	--
8	40.9	114-2163●	5.01	4.24	3.56	2.70	--
10	50.9	469-877	6.28	5.36	4.49	3.40	--
10	50.9	117-2831●	6.28	5.36	4.49	3.40	--
12	61.5	114-2155●	7.01	5.91	4.91	3.79	--

**Angled 300 Series 15A**  
5.0mm Pitch



- Modular interlocking construction
- Standard 45° Block
- Rising cage clamp mechanism
- CSA & VDE approved UL recognised

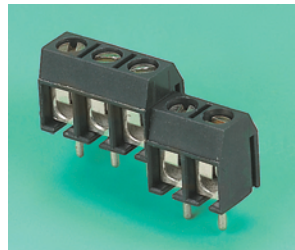
Rated Voltage	300V	Solid wire entry	2.5mm <sup>2</sup>
Current Rating	15A	Screw size	M2.6
Temperature Range	-30°C to +105°C	Colour	Grey
Flammability Class	UL94V-0	Torque rating	0.5Nm

Height 12.5mm Pitch 5.0mm Width 12.5mm Pin diameter 0.8mm

248821

No. of Ways	Mfrs. List No	Order Code	5+	50+	100+	500+
2	20.300/2	431-5881‡	1.19	1.09	0.96	0.83
3	20.300/3	431-5893‡	1.80	1.61	1.44	1.28
4	20.300/4	431-5900‡	2.44	2.18	1.93	1.70

**Low Profile 17.5A**  
5mm Pitch



- Low profile 10mm board height
- Wire guard protection
- Solid black construction

H=10, W=7.5, Pitch=5, Pin Dia=1

Rated Voltage	415V	Solid wire entry	1.5sq mm
Current Rating	17.5A	Screw size	M2.6
Temperature Range	-40°C to +105°C	Torque rating	0.4Nm
Flammability Class	UL94V-0	Colour	Dark Grey

411955

No of Mfrs. Ways List No.	Order Code	1+	25+	100+	250+	+
2 20.501M/2	963-2972●	0.54	0.44	0.41	0.37	--
3 20.501M/3	963-2980●	0.74	0.67	0.54	0.51	--
4 20.501M/4	963-2999●	1.06	0.96	0.87	0.74	--
6 20.501M/6	963-3006●	1.62	1.45	1.33	1.21	--
8 20.501M/8	963-3014●	2.15	1.93	1.73	1.49	--
10 20.501M/10	963-3022●	2.66	2.41	2.18	1.86	--

**700 Series 20A**  
5.0mm Pitch



- Modular interlocking construction
- Standard profile 5mm pitch
- Rising cage clamp mechanism
- UL / IEC recognised

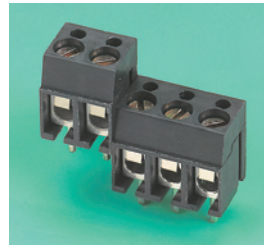
Height 19mm Pitch 5mm Width 10.5mm Pin diameter 0.9mm

Rated Voltage	300V	Flammability Class	UL94V-0
Current Rating	20A	Solid wire entry	4mm <sup>2</sup>
Temperature Range	-40°C to +105°C	Colour	Green

411974

No. of Ways	Mfrs. List No	Order Code	5+	50+	100+	500+
2	20.700M/2	963-3324●	1.35	1.19	1.18	--
3	20.700M/3	963-3332●	1.99	1.80	1.60	1.41
4	20.700M/4	963-3340●	2.66	2.41	2.15	1.86

**Standard Profile 24A**  
5mm Pitch



- Integral test probe holes
- Wire guard protection
- UL / IEC recognised



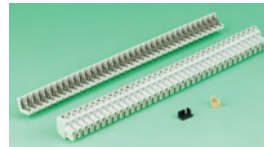
Rated Voltage	300V	Flammability Class	UL94V-0
Current Rating	24A	Solid wire entry	2.5mm <sup>2</sup>
Temperature Range	-40°C to +105°C	Screw size	M3
Torque rating	0.5Nm	Colour	Dark Grey

H = 12.5, W = 9, Pitch = 5, Pin Dia = 1

411951

No. of Ways	Mfrs. List No.	Order Code	5+	50+	100+	500+	+
2	20.101M/2SB	963-2670●	0.54	0.44	0.41	0.37	--
3	20.101M/3SB	963-2689●	0.75	0.72	0.58	0.56	--
4	20.101M/4SB	963-2697●	1.06	0.96	0.87	0.74	--
6	20.101M/6SB	963-2700●	1.60	1.44	1.32	1.12	--
8	20.101M/8SB	963-2719●	2.15	1.93	1.73	1.49	--
10	20.101M/10SB	963-2727●	2.66	2.41	2.18	1.86	--

**36 Way Plug-In Terminal Block 13.5A**  
5.0mm Pitch



- 36 way strip easily cut to required number of ways
- Rising clamp terminals
- Horizontal or vertical mounting
- Approvals: CE approved, UL recognised
- Optional polarising clips (in pairs)

Maximum Voltage	380V	Maximum Wire Size	4.0mm <sup>2</sup>
Current Rating	17.5A	Clamping Screw	M2.5 Zinc plated Steel 0.4Nm
Temperature Range	-20°C to 125°C	Housing	Lexan UL94V-0
Rising Clamp	Zinc plated Steel	Colour	Grey

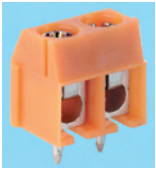
232094

	Mfrs. List No.	Order Code	1+	10+	50+	100+
Vertical Mount	CTB7300/36M	388-1829●	5.06	4.44	4.05	3.70
90° Mount	CTB7300/36F	388-1830●	12.81	11.12	9.43	8.49
Clips (pair)	CTB7300/C	388-1842●	0.41	0.33	0.30	0.27

Compliant  
Non-compliant  
RoHS  
Limited stock - RoHS replacement available



**PM Series. PCB Terminal Blocks**  
5.08mm Pitch, Leaf spring



- Cost effective direct wire to PCB terminals
- Leaf spring technology for cable size up to 1.5mm<sup>2</sup>
- End to end stacking without loss of Pitch
- CSA and VDE approved, UL recognised

Maximum Voltage 250V  
Current Rating 12.0A  
Temperature Range -20°C to 120°C  
Rising Clamp Tinned Phosphor Bronze  
Maximum Wire Size 1.3mm<sup>2</sup>  
Clamping Screw Zinc plated Steel  
Housing PA66 UL94V-0  
Colour Grey

232104

Maximum Voltage 250V  
Current Rating 12.0A  
Temperature Range -20°C to 120°C  
Rising Clamp Tinned Phosphor Bronze  
Maximum Wire Size 1.3mm<sup>2</sup>  
Clamping Screw Zinc plated Steel  
Housing PA66 UL94V-0  
Colour Grey

Mftrs. List No.	Order Code	1+	100+	500+	1K+
2 way CSTB/2	<b>388-2690</b>	0.67	0.47	0.44	0.41
3 way CSTB/3	<b>388-2706</b>	1.00	0.71	0.67	0.60
4 way CSTB/4	<b>388-2718</b>	1.35	0.96	0.87	0.83
5 way CSTB/5	<b>388-2720</b>	1.67	1.19	1.06	1.03
6 way CSTB/6	<b>388-2731</b>	1.99	1.44	1.28	1.22
7 way CSTB/7	<b>388-2743</b>	2.34	1.67	1.51	1.44

No of Ways	Mftrs. List No.	Order Code	5+	25+	100+	250+	+
<b>Orange Terminal Blocks</b>							
2	PM5.08/2/90.	<b>501-5571</b>	0.39	0.36	0.31	0.29	--
2	PM5.08/2/90	<b>113-1853</b>	0.39	0.36	0.31	0.29	--
3	PM5.08/3/90.	<b>501-5583</b>	0.59	0.49	0.47	0.43	--
3	PM5.08/3/90	<b>113-1854</b>	0.59	0.49	0.47	0.43	--
<b>Black Terminal Blocks</b>							
2	PM5.08/2/90 BLK.	<b>501-5595</b>	0.39	0.36	0.31	0.29	--
2	PM5.08/2/90 BLK	<b>113-1855</b>	0.39	0.36	0.31	0.29	--
3	PM5.08/3/90 BLK.	<b>501-5601</b>	0.59	0.49	0.46	0.43	--
3	PM5.08/3/90 BLK	<b>113-1856</b>	0.59	0.49	0.46	0.43	--

**20A Interlocking Terminal Blocks**  
7.5mm Pitch



- 2 & 3 way ultra low profile terminal blocks
- Easily assembled for required number of ways
- Double interlocking for increased strength
- Rising clamp terminals
- Guided pin alignment
- Approvals: VDE & CE, UL recognised

H = 13.8, W = 9.8, Pitch = 7.5,  
PCB hole dia. = 1.3

Maximum Voltage 750V  
Current Rating 20.0A  
Temperature Range -20°C to 125°C  
Rising Clamp Nickel plated Brass

Maximum Wire Size 2.5mm<sup>2</sup>  
Clamping Screw M3 Zinc plated Steel 0.5Nm  
Housing PA66 UL94V-0  
Colour Green

232097

Mftrs. List No.	Order Code	1+	100+	500+	1K+
2 way CTB0110/2	<b>388-2573</b>	0.87	0.71	0.63	0.57
3 way CTB0110/3	<b>388-2585</b>	1.28	1.03	0.96	0.87

**LP Series. PCB Terminal Blocks**  
5.08mm Pitch Stackable



- A range of 5.08mm PCB terminals
- Rising clamp Technology
- Cable size up to 4.00mm<sup>2</sup>
- Cable entry angles, Top, Side, or 90°
- End to end stacking without loss of pitch
- CSA and VDE approved, UL recognised

Flammability Class UL94V-2  
Material PA66

339272

No of Ways	Mftrs. List No.	Order Code	5+	25+	100+	250+	+
<b>Free Plug - Side Entry</b>							
2Single Height	LP5.08/2/90.	<b>501-5390</b>	1.17	1.11	1.01	1.01	--
2Single Height	LP5.08/2/90	<b>113-1832</b>	1.17	1.11	1.01	1.01	--
2Double Height	LP1N5.08/2/90.	<b>501-5420</b>	1.95	1.86	1.66	1.63	--
2Double Height	LP1N5.08/2/90	<b>113-1835</b>	1.95	1.86	1.66	1.63	--
2Triple Height	LP1H5.08/2/90.	<b>501-5431</b>	2.02	1.92	1.73	1.69	--
2Triple Height	LP1H5.08/2/90	<b>113-1836</b>	2.02	1.92	1.73	1.69	--
3Single Height	LP5.08/3/90.	<b>501-5443</b>	1.79	1.69	1.53	1.53	--
3Single Height	LP5.08/3/90	<b>113-1838</b>	1.79	1.69	1.53	1.53	--
3Double Height	LP1N5.08/3/90.	<b>501-5479</b>	2.93	2.80	2.51	2.51	--
3Double Height	LP1N5.08/3/90	<b>113-1841</b>	2.93	2.80	2.51	2.51	--
3Triple Height	LP1H5.08/3/90.	<b>501-5480</b>	2.99	2.86	2.54	2.54	--
3Triple Height	LP1H5.08/3/90	<b>113-1842</b>	2.99	2.86	2.54	2.54	--
<b>Top Entry</b>							
2Single Height	LP5.08/2/180.	<b>501-5406</b>	1.17	1.11	1.01	1.01	--
2Single Height	LP5.08/2/180	<b>113-1833</b>	1.17	1.11	1.01	1.01	--
3Single Height	LP5.08/3/180.	<b>501-5455</b>	1.76	1.66	1.50	1.50	--
3Single Height	LP5.08/3/180	<b>113-1839</b>	1.76	1.66	1.50	1.50	--
<b>135°</b>							
2Single Height	LP5.08/2/135.	<b>501-5418</b>	1.17	1.11	1.01	1.01	--
2Single Height	LP5.08/2/135	<b>113-1834</b>	1.17	1.11	1.01	1.01	--
3Single Height	LP5.08/3/135.	<b>501-5467</b>	1.76	1.66	1.50	1.50	--
3Single Height	LP5.08/3/135	<b>113-1840</b>	1.76	1.66	1.50	1.50	--

**10A**

**10mm Pitch**



- 2.5mm<sup>2</sup> cable entry
- Pressure plate wire entry assists conductor clamping

2.5mm<sup>2</sup> cable entry

H = 13, W = 8, Pitch = 10, Pin dia = 1.1

Maximum Voltage 380V ac  
Current Rating 10A  
Maximum Temperature 120°C

Housing Noryl SE.1  
Colour Light Grey  
Maximum wire size 2.5mm<sup>2</sup>

Warning: Not suitable for use with Arkclone cleaners

209403

No of Ways	Length mm	Order Code	5+	50+	100+	500+	+
2	15	<b>117-8392</b>	1.11	1.00	0.80	0.63	--
3	25	<b>117-8393</b>	1.60	1.44	1.28	0.96	--
4	35	<b>117-8394</b>	2.14	1.86	1.64	1.28	--

**Screwless Terminal Blocks 12A**  
5.08mm Pitch



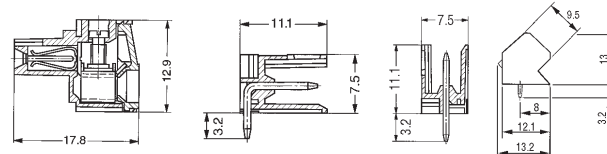
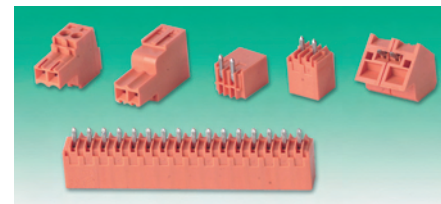
H = 13.0, W = 16.2, Pitch = 5.08, PCB hole dia. = 1.3

- 2 & 7 way strip screwless terminal blocks
- No tools required for termination
- Guided pin alignment/anti wicking
- Protection to IP00
- Approvals: VDE approved UL recognised

**Plug In PCB Mounting Terminal Blocks**



**Plug-in 10A 3.5mm Pitch**



Voltage rating (VDE)	125V ac (Group C) 250V ac (Group B)	Contact pin Housing	Copper alloy, tin plated PBT
Current Rating	10A	Colour	Orange
Temperature Range	-20°C to +100°C	Wire size	0.5-1.5mm <sup>2</sup>
Screw clamp	Steel, zinc plated		
Mfrs. List No.	BL3.5/x SL3.5/x/90G BLZ3.5/x SL3.5/x/180G SL3.5/x/135		
Where x = No of ways			

209532

No. of Ways	Order Code	1+	25+	100+	250+	+
<b>Free Plug - BL</b>						
2	617-350	2.10	1.98	1.85	1.72	--
2	113-1800	2.10	1.98	1.85	1.72	--
3	617-362	2.60	--	--	--	--
3	113-1802	2.60	--	--	--	--
4	617-374	4.19	3.92	3.79	3.40	--
4	113-1803	4.19	3.92	3.79	3.40	--
5	617-386	6.33	6.22	5.90	5.19	--
5	113-1804	6.33	6.22	5.90	5.19	--
6	617-398	6.24	5.84	5.68	5.10	--
6	113-1805	6.24	5.84	5.68	5.10	--
8	617-404	8.46	7.98	7.69	7.00	--
8	113-1806	8.46	7.98	7.69	7.00	--
10	617-416	10.41	9.67	9.43	8.52	--
10	113-1807	10.41	9.67	9.43	8.52	--
12	617-428	12.39	11.68	11.20	10.37	--
12	113-1808	12.39	11.68	11.20	10.37	--
14	617-430	14.60	13.85	13.23	11.77	--
14	113-1809	14.60	13.85	13.23	11.77	--
16	617-441	21.17	19.97	18.81	16.53	--
16	113-1810	21.17	19.97	18.81	16.53	--
<b>Free Plug - BLZF Series</b>						
2	155-354	3.85	3.54	3.37	2.98	--
2	117-9250	2.83	2.70	2.60	2.47	--
3	155-366	5.84	5.38	5.12	4.47	--
3	117-9252	3.97	3.74	3.61	3.45	--
4	155-378	7.67	7.13	6.74	6.73	--
4	117-9253	7.67	7.13	6.79	--	--
5	155-380	9.64	8.95	8.49	7.45	--
5	117-9254	6.54	6.22	5.99	5.70	--
6	155-391	11.56	10.74	10.18	8.95	--
6	117-9255	7.84	7.42	7.19	6.84	--
8	155-408	15.32	14.19	13.51	11.81	--
8	117-9256	10.48	9.93	9.60	9.15	--
10	155-410	19.32	17.87	17.02	14.92	--
10	117-9248	13.05	12.40	11.98	11.39	--
12	155-421	23.24	21.52	20.46	17.90	--
12	117-9249	15.72	14.91	14.39	13.70	--
16	155-445	30.99	28.66	27.30	23.87	--
16	112-1767	30.99	28.66	27.30	23.87	--
<b>Side Entry PCB Header-Closed End</b>						
2	617-453	0.83	0.80	0.77	0.71	--
2	112-1786	0.83	0.80	0.77	0.71	--
3	617-465	1.21	1.16	1.09	1.00	--
3	112-1791	1.21	1.16	1.09	1.00	--
4	617-477	1.67	1.64	1.54	1.38	--
4	112-1793	1.67	1.64	1.54	1.38	--
		<b>5+</b>	<b>25+</b>	<b>100+</b>	<b>250+</b>	<b>+</b>
5	617-489	2.35	2.23	2.07	1.85	--
5	112-1795	2.35	2.23	2.07	1.85	--
6	617-490	2.52	2.46	2.30	2.14	--
6	112-1798	2.52	2.46	2.30	2.14	--
8	617-507	3.37	3.34	3.08	2.76	--
8	112-1801	3.37	3.34	3.08	2.76	--
10	617-519	4.08	4.04	3.69	3.34	--
10	112-1778	4.08	4.04	3.69	3.34	--
12	617-520	5.04	4.98	4.53	4.17	--
12	112-1780	5.04	4.98	4.53	4.17	--
14	112-1782	5.90	5.54	5.31	4.90	--
16	617-544	7.52	7.07	6.68	5.87	--
16	112-1784	7.52	7.07	6.68	5.87	--
<b>Top Entry PCB Header-Closed End</b>						
2	617-556	0.83	0.80	0.77	0.71	--
2	112-1785	0.83	0.80	0.77	0.71	--
3	617-568	0.91	--	--	--	--
3	112-1788	0.91	--	--	--	--
4	617-570	1.19	1.18	--	--	--
4	112-1792	1.19	1.18	--	--	--
5	617-581	1.80	1.71	1.62	1.54	--
5	112-1794	1.80	1.71	1.62	1.54	--
6	617-593	2.52	2.46	2.27	2.07	--
6	112-1797	2.52	2.46	2.27	2.07	--
8	617-600	3.34	3.31	3.05	2.79	--
8	112-1800	3.34	3.31	3.05	2.79	--
10	617-611	4.12	4.08	3.73	3.37	--
10	112-1776	4.12	4.08	3.73	3.37	--
12	617-623	5.04	4.98	4.53	4.14	--
12	112-1779	5.04	4.98	4.53	4.14	--
14	617-635	5.90	5.54	5.28	4.87	--
14	112-1781	5.90	5.54	5.28	4.87	--
16	617-647	6.30	5.99	5.69	5.40	--
16	112-1783	6.30	5.99	5.69	5.40	--

		Price Each				
<b>135° PCB Header - with fixing flange</b>						
3	617-660	1.50	1.41	1.35	1.16	--
3	112-1787	1.50	1.41	1.35	1.16	--
6	617-696	3.04	2.85	2.69	2.40	--
6	112-1796	3.04	2.85	2.69	2.40	--
8	617-702	4.00	3.79	3.53	3.15	--
8	112-1799	4.00	3.79	3.53	3.15	--
10	617-714	5.03	4.77	4.47	3.96	--
10	112-1775	5.03	4.77	4.47	3.96	--

**MC1.5 Series, Plug-in 8A**  
3.81mm Pitch



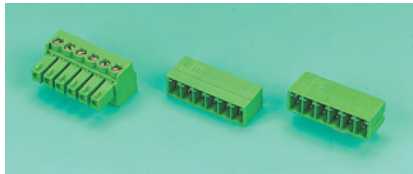
- Headers plug in direction parallel to the conductor axis
- Pitch 3.81mm

Current Rating 8A  
Wire Size 0.14mm<sup>2</sup> to 1.5mm<sup>2</sup>

230300

No. of Mfrs. Ways	Type No.	Mfrs. List No.	Order Code	1+	25+	100+	250+
2	MC1.5/2-ST-3.81	1803578	370-4907	2.79	2.47	2.25	1.70
3	MC1.5/3-ST-3.81	1803581	370-4919	4.14	3.66	3.34	2.54
4	MC1.5/4-ST-3.81	1803594	370-4920	5.55	4.88	4.46	3.37
5	MC1.5/5-ST-3.81	1803604	370-4932	6.97	6.16	5.68	4.24
6	MC1.5/6-ST-3.81	1803617	370-4944	8.31	7.32	6.74	5.04
8	MC1.5/8-ST-3.81	1803633	370-4956	11.11	9.79	8.96	6.71
9	MC1.5/9-ST-3.81	1803646	370-4968	12.49	10.98	10.08	7.58
10	MC1.5/10-ST-3.81	1803659	370-4970	13.84	12.20	11.17	8.38
12	MC1.5/12-ST-3.81	1803675	370-4981	16.60	14.64	13.45	10.08

**Plug-in 8A**  
3.81mm Pitch



- Rising clamp terminals for wire protection
- Horizontal and vertical PCB Headers
- UL94V-0 flammability rating
- UL / IEC recognised

Rated Voltage 300V  
Current Rating 8A  
Temperature Range -40°C to +105°C  
Flammability Class UL94V-0

Solid wire entry  
Screw size M2  
Torque rating 0.25Nm  
Colour Green

411954

No of Mfrs. Ways	List No.	Order Code	1+	25+	100+	250+	+
<b>Free Plug</b>							
2	21.1550M/2	963-2735	2.00	1.89	1.80	1.60	--
3	21.1550M/3	963-2743	3.01	2.86	2.70	2.41	--
4	21.1550M/4	963-2751	4.00	3.82	3.60	3.21	--
5	21.1550M/5	963-2760	5.01	4.78	4.49	4.01	--
6	21.1550M/6	963-2778	6.01	5.71	5.39	4.82	--
8	21.1550M/8	963-2786	8.01	7.61	7.22	6.42	--
10	21.1550M/10	963-2794	10.02	9.50	9.02	8.02	--
12	21.1550M/12	963-2808	12.02	11.43	10.85	9.63	--
<b>Top Entry Header, Closed End</b>							
2	21.155MH/2	963-2816	0.71	0.67	0.63	0.54	--
3	21.155MH/3	963-2824	1.04	0.96	0.93	0.80	--
4	21.155MH/4	963-2832	1.35	1.28	1.19	1.06	--
5	21.155MH/5	963-2840	1.64	1.57	1.48	1.35	--
6	21.155MH/6	963-2859	2.07	1.96	1.86	1.60	--
8	21.155MH/8	963-2867	2.77	2.63	2.50	2.15	--
10	21.155MH/10	963-2875	3.47	3.31	3.15	2.66	--
12	21.155MH/12	963-2883	4.17	3.95	3.72	3.21	--
<b>Side Entry Header, Closed End</b>							
2	21.155MH/2	963-2891	0.71	0.67	0.63	0.54	--
3	21.155MH/3	963-2905	1.04	0.96	0.93	0.80	--
4	21.155MH/4	963-2913	1.35	1.28	1.19	1.06	--
5	21.155MH/5	963-2921	1.64	1.57	1.48	1.35	--
6	21.155MH/6	963-2930	2.07	1.96	1.86	1.60	--
8	21.155MH/8	963-2948	2.77	2.63	2.50	2.15	--
10	21.155MH/10	963-2956	3.47	3.31	3.15	2.66	--
12	21.155MH/12	963-2964	4.17	3.95	3.72	3.21	--

Compliant  
 Non-compliant  
 Limited stock - RoHS replacement available  
**RoHS**

**Plug-in 10A**  
5.0mm Pitch



- High reliability dual beam female contact
- Very low profile, only 18mm high when mated
- Plug and header positive latching system prevents plug movement, freeing hands for easy termination
- Polarising feature eliminates potential mis-mating and

facilitates blind mating

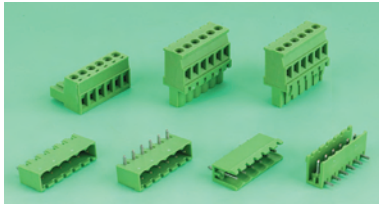
- Pressure clamp termination
- Secure retention resists vibration and wire loads

Rated Voltage 300V Flammability Class UL94V-0  
Temperature Range 140°C Colour Black

386474

No. of Ways	Mftrs. List No	Order Code	Price Each		
			1+	25+	100+
<b>Free Plug</b>					
2	0399900302	876-7912	2.21	1.99	1.63
3	0399900303	876-7947	3.29	2.96	2.51
4	0399900304	876-7955	5.57	5.01	4.20
5	0399900305	876-7963	5.47	4.92	4.10
6	0399900306	876-7971	8.07	7.26	6.02
8	0399900308	876-7980	9.99	8.95	7.49
10	0399900310	876-7998	10.94	9.83	8.20
12	0399900312	876-8005	13.09	11.78	9.83
<b>Top Entry PCB Header</b>					
2	0399900402	876-8013	1.14	1.01	0.85
3	0399900403	876-8021	1.63	1.46	1.24
4	0399900404	876-8030	1.69	1.50	1.27
5	0399900405	876-8048	2.73	2.47	2.05
6	0399900406	876-8056	2.47	2.21	1.82
8	0399900408	876-8064	3.22	2.90	2.44
10	0399900410	876-8072	5.47	4.92	4.10
12	0399900412	876-8080	6.54	5.89	4.92

**12A Plug-In Terminal Blocks**  
5.0mm Pitch



- 2 to 24 way solid terminal block
- Open and closed headers R/A and vertical
- Vertical cable entry female standard and reverse polarisation
- Rising clamp terminals
- Approvals: IMQ, VDE & CE, UL recognised

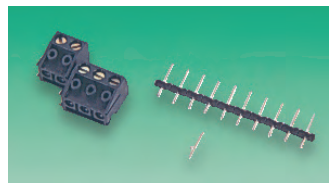
Maximum Voltage 380V Maximum Wire Size 2.5mm<sup>2</sup>  
Current Rating 12.0A Clamping Screw M3 Zinc plated Steel 0.5Nm  
Temperature Range -20°C to 125°C Housing PA66 UL94V-0  
Rising Clamp Brass Copper flash/Nickel Colour Green

232095

Mftrs. List No.	Order Code	Price Each				
		1+	25+	100+	250+	
<b>Female -Vertical Cable Entry</b>						
2 way	CTB9200/2A	388-1854	1.16	1.00	0.90	0.80
3 way	CTB9200/3A	388-1866	1.80	1.48	1.35	1.19
4 way	CTB9200/4A	388-1878	2.34	1.96	1.77	1.57
6 way	CTB9200/6A	388-1880	3.50	2.95	2.66	2.41
8 way	CTB9200/8A	388-1891	4.69	3.95	3.56	3.18
12 way	CTB9200/12A	388-1908	7.00	5.84	5.30	4.78
<b>Female - R/A Cable Entry, Standard Polarisation</b>						
2 way	CTB9600/2A	388-1910	1.28	1.16	1.00	0.93
3 way	CTB9600/3A	388-1921	1.93	1.67	1.54	1.41
4 way	CTB9600/4A	388-1933	2.57	2.21	2.02	1.86
6 way	CTB9600/6A	388-1945	3.85	3.31	3.08	2.79
8 way	CTB9600/8A	388-1957	5.17	4.40	4.08	3.72
12 way	CTB9600/12A	388-1969	7.67	6.61	6.10	5.55
<b>Female - R/A Cable Entry, Reverse Polarisation</b>						
2 way	CTB92VG/2R	388-1970	1.28	1.16	1.00	0.93
3 way	CTB92VG/3R	388-1982	1.93	1.67	1.54	1.41
4 way	CTB92VG/4R	388-1994	2.57	2.21	2.02	1.86
6 way	CTB92VG/6R	388-2007	3.85	3.31	3.08	2.79
8 way	CTB92VG/8R	388-2019	5.22	4.44	4.12	3.76
12 way	CTB92VG/12R	388-2020	7.67	6.61	6.10	5.55
<b>Male - PCB Header Vertical (Closed End)</b>						
2 way	CTB9300/2A	388-2032	0.30	0.24	0.20	0.17
3 way	CTB9300/3A	388-2044	0.41	0.33	0.27	0.24
4 way	CTB9300/4A	388-2056	0.54	0.44	0.36	0.33
6 way	CTB9300/6A	388-2068	0.77	0.63	0.57	0.50
8 way	CTB9300/8A	388-2070	1.00	0.83	0.74	0.67
12 way	CTB9300/12A	388-2081	1.51	1.22	1.09	0.96
<b>Male - PCB Header R/A (Closed End)</b>						
2 way	CTB9350/2A	388-2093	0.36	0.27	0.24	0.20
3 way	CTB9350/3A	388-2100	0.47	0.41	0.33	0.30
4 way	CTB9350/4A	388-2111	0.63	0.50	0.44	0.41

Mftrs. List No.	Order Code	Price Each				
		1+	25+	100+	250+	
<b>Male - PCB Header R/A (Closed End)</b>						
6 way	CTB9350/6A	388-2123	0.90	0.74	0.67	0.60
8 way	CTB9350/8A	388-2135	1.19	0.96	0.90	0.80
12 way	CTB9350/12A	388-2147	1.83	1.48	1.35	1.19
<b>Male - PCB Header Vertical (Open End)</b>						
3 way	CTB9300/3AO	388-2160	0.41	0.33	0.27	0.24
4 way	CTB9300/4AO	388-2172	0.54	0.44	0.36	0.33
6 way	CTB9300/6AO	388-2184	0.77	0.63	0.57	0.50
8 way	CTB9300/8AO	388-2196	1.00	0.83	0.74	0.67
12 way	CTB9300/12AO	388-2202	1.51	1.22	1.09	0.96
<b>Male - PCB Header R/A (Open End)</b>						
2 way	CTB9350/2AO	388-2214	0.36	0.27	0.24	0.20
3 way	CTB9350/3AO	388-2226	0.47	0.41	0.33	0.30
4 way	CTB9350/4AO	388-2238	0.63	0.50	0.44	0.41
6 way	CTB9350/6AO	388-2240	0.91	0.75	0.68	0.61
8 way	CTB9350/8AO	388-2251	1.19	0.96	0.90	0.80
12 way	CTB9350/12AO	388-2263	1.83	1.48	1.35	1.19

**Interlocking and Plug-in 10A**  
5mm Pitch



2.5mm<sup>2</sup>  
cable  
entry



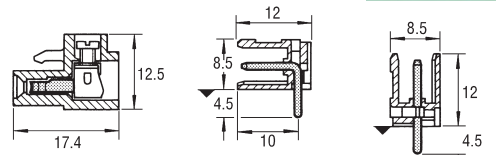
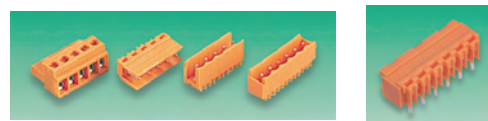
- Horizontal or vertical cable entry
- Pins supplied loose or on a plastic 24 way pinstrip
- Dove tail stacking system for number of ways permutation
- Captive M2.6 x 5mm screws, suitable for automatic screwdriver operation

Rated Voltage 380V ac Temperature Range -30°C to +140°C  
Current Rating 6A Material Glass Filled Polyamide 6  
Clamping screw Steel Zinc & Passivated Colour Grey  
Pin & housing Brass with Copper, nickel Max wire size 2.5mm<sup>2</sup>  
Max insertions 30 Contact resistance <10mΩ initially

411950

No of Ways	Mftrs. List No.	Order Code	Price Each			
			2+	100+	500+	1K+
2	20.130M/2	963-2581	1.04	0.90	0.87	0.83
3	20.130M/3	963-2590	1.50	1.35	1.28	1.16
4	20.130M/2	963-2638	1.97	1.77	1.67	1.57
5	20.130M/4	963-2646	2.44	2.18	2.05	1.93
6	20.130M/5	963-2603	3.27	2.89	2.54	2.21
			1+	100+	500+	1K+
12	20.130M/12	963-2611	6.47	5.75	4.94	4.40
<b>PCB Pins</b>			1+	5+	10+	25+
Loose (1000 Per Pack)	20.130M/P	963-2654	34.66	32.32	29.66	26.55
Strip (24 Way Strip)	20.130M/PS	963-2620	2.44	2.18	2.05	1.93

**Plug-in 10A**  
5.08mm Pitch



Free plug Side entry PCB header Top entry PCB headers  
PCB pins = 1.0 x 1.0  
PCB hole dia = 1.4

Length = No. of ways x 5.08, except closed end version which is 2mm longer

- Low cost, two part connector for PCB's to wiring harness
- Screw terminal plug with cable protectors, captive screws and friction locks
- End stackable PCB headers, side or top entry
- Conforming to VDE, UL, CSA and SEV approved

Voltage Rating 250V ac (Group C)  
380V ac (Group B)  
Current Rating 10A  
Temperature Range -50°C to +100°C (Polyamide)  
-20°C to +100°C (PBTP)  
Mating cycles ≤100  
Pitch 5.08mm  
Bush clamp & screw Stainless Steel, zinc plated  
Contacts Copper alloy, Tin plated  
Cable protector Stainless Steel

Prices are in Singapore Dollars and exclusive of GST. Due to the volatile nature of certain products, prices are subject to change without notice.





Top Entry PCB - Open End



403380

No. of Ways	Mfrs. List No.	Order Code	5+	25+	100+	250+	+
<b>Top Entry PCB Header - Open End</b>							
2	SL 5.08/2/180.	889-763	0.83	0.74	0.71	0.60	--
2	SL 5.08/2/180	112-1826	0.83	0.74	0.71	0.60	--
3	SL 5.08/3/180.	889-775	1.01	0.96	0.90	0.74	--
3	SL 5.08/3/180	112-1830	1.01	0.96	0.90	0.74	--
4	SL 5.08/4/180.	889-787	1.22	--	--	--	--
4	SL 5.08/4/180	112-1835	1.22	--	--	--	--
5	SL 5.08/5/180.	889-799	1.42	1.35	1.28	1.22	--
5	SL 5.08/5/180	112-1840	1.42	1.35	1.28	1.22	--
6	SL 5.08/6/180.	889-805	1.60	1.53	1.44	1.35	--
6	SL 5.08/6/180	112-1845	1.60	1.53	1.44	1.35	--
7	SL 5.08/7/180	501-2946	2.15	1.89	1.76	1.69	--
8	SL 5.08/8/180.	889-817	2.18	2.07	1.97	1.88	--
8	SL 5.08/8/180	112-1849	2.18	2.07	1.97	1.88	--
9	SL 5.08/9/180	501-2958	3.52	2.96	2.77	2.64	--
10	SL 5.08/10/180.	889-829	3.19	3.03	2.88	2.54	--
11	SL 5.08/11/180	501-2960	3.32	3.06	2.93	2.80	--
10	SL 5.08/10/180	112-1802	3.19	3.03	2.88	2.54	--
12	SL 5.08/12/180.	889-830	3.40	3.05	2.89	2.63	--
12	SL 5.08/12/180	112-1806	3.40	3.05	2.89	2.63	--
13	SL 5.08/13/180	501-2971	3.42	3.19	3.12	3.12	--
14	SL 5.08/14/180.	616-096	3.87	3.43	3.27	2.99	--
14	SL 5.08/14/180	112-1811	3.87	3.43	3.27	2.99	--
15	SL 5.08/15/180.	616-102	3.67	3.24	3.08	2.79	--
15	SL 5.08/15/180	112-1815	3.67	3.24	3.08	2.79	--
16	SL 5.08/16/180.	615-444	3.96	3.73	3.57	3.24	--
16	SL 5.08/16/180	112-1821	3.96	3.73	3.57	3.24	--

Top Entry PCB - Closed End



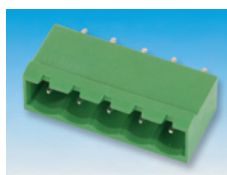
403381

Mfrs. List No.	Order Code	5+	25+	100+	250+	+
<b>Top Entry PCB Header - Closed End</b>						
2	615-651	0.83	0.77	0.71	0.60	--
2	112-1827	0.83	0.77	0.71	0.60	--
3	615-663	1.07	0.96	0.90	0.80	--
3	112-1831	1.07	0.96	0.90	0.80	--
4	889-842	1.40	1.28	1.16	1.03	--
4	112-1836	1.40	1.28	1.16	1.03	--
5	889-854	1.90	1.70	1.54	1.22	--
5	112-1841	1.90	1.70	1.54	1.22	--
6	889-866	1.73	1.65	1.56	1.42	--
6	112-1846	1.73	1.65	1.56	1.42	--
8	889-878	2.74	2.44	2.21	1.93	--
8	112-1850	2.74	2.44	2.21	1.93	--
9	501-2983	3.52	2.96	2.77	2.64	--
10	889-880	3.68	3.27	2.92	2.40	--
10	112-1803	3.68	3.27	2.92	2.40	--
11	501-2995	3.32	3.06	2.93	2.80	--
12	889-891	3.22	2.97	2.74	2.70	--
12	112-1808	3.22	2.97	2.74	2.70	--
13	501-3008	3.42	3.19	3.12	3.12	--
14	616-230	3.58	3.30	3.21	2.92	--
14	112-1812	3.58	3.30	3.21	2.92	--
15	616-758	3.71	3.27	3.11	2.82	--
15	112-1816	3.71	3.27	3.11	2.82	--
16	392-6187	4.01	3.53	3.37	3.19	--
16	112-1823	4.01	3.53	3.37	3.19	--

**Product Watch**  
 • FREE to all account holders  
 • Notification of obsolete, end of line and end of stock items  
 • Replacement or upgrade recommendations

**Advanced warning of obsolete components**

MSTBVA2.5 Series 12A  
5.08mm Pitch



- Headers with side panels
- Plug in direction parallel to the conductor axis
- Pitch 5.08mm

Current Rating 12A

230303

No. of Ways	Mfrs. Type No.	Mfrs. List No.	Order Code	1+	25+	100+	250+
2	MSTBVA2.5/2-G5.08	1755736	370-5262	0.96	0.83	0.77	0.57
3	MSTBVA2.5/3-G5.08	1755749	370-5274	1.41	1.25	1.12	0.87
4	MSTBVA2.5/4-G5.08	1755752	370-5286	1.89	1.67	1.51	1.12
5	MSTBVA2.5/5-G5.08	1755765	370-5298	2.34	2.05	1.89	1.44
6	MSTBVA2.5/6-G5.08	1755778	370-5304	2.79	2.47	2.25	1.70
8	MSTBVA2.5/8-G5.08	1755794	370-5316	3.72	3.27	3.05	2.28
9	MSTBVA2.5/9-G5.08	1755804	370-5328	4.17	3.66	3.40	2.54
10	MSTBVA2.5/10-G5.08	1755817	370-5330	4.69	4.11	3.79	2.82
12	MSTBVA2.5/12-G5.08	1755833	370-5341	5.62	4.91	4.49	3.40

MSTB2.5 Series, Plug-in 12A  
5.08mm Pitch



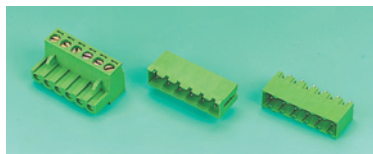
- MSTB plug, plugs-in direction parallel to the conductor axis
- Pitch 5.08mm
- Insulating Material Group 1

Wire Size 0.2 - 2.5mm<sup>2</sup>  
 Current Rating 12A  
 Voltage Rating 250V

230412

No. of Ways	Mfrs. Type No.	Mfrs. List No.	Order Code	1+	25+	100+	250+
2	MSTB2.5/2-ST-5.08	1757019	370-5353	2.60	2.31	2.12	1.57
3	MSTB2.5/3-ST-5.08	1757022	370-5365	3.88	3.43	3.15	2.38
4	MSTB2.5/4-ST-5.08	1757035	370-5377	5.20	4.53	4.21	3.15
5	MSTB2.5/5-ST-5.08	1757048	370-5389	6.52	5.71	5.26	3.95
6	MSTB2.5/6-ST-5.08	1757051	370-5390	7.77	6.87	6.29	4.72
8	MSTB2.5/8-ST-5.08	1757077	370-5407	10.34	9.15	8.38	6.29
9	MSTB2.5/9-ST-5.08	1757080	370-5419	11.62	10.24	9.41	7.06
10	MSTB2.5/10-ST-5.08	1757093	370-5420	12.97	11.40	10.50	7.83
12	MSTB2.5/12-ST-5.08	1757116	370-5432	15.57	13.67	12.58	9.41

Plug-in 12A  
5.08mm Pitch



- Low profile only 11.1mm height
- Rising clamp terminals for wire protection
- Horizontal and vertical PCB headers
- UL94V-0 flammability
- CSA & VDE approved UL recognised

Maximum Voltage 300V UL, CSA ; 250V VDE  
 Current Rating 12A  
 Temperature Range -30°C to +105°C  
 Flammability Class UL94V-0  
 Solid wire entry 2.5mm<sup>2</sup>  
 Screw size M3  
 Torque rating 0.5Nm  
 Colour Green

227352

No. of Ways	Mfrs. List No.	Order Code	1+	25+	100+	250+	+
<b>Free Plug</b>							
3	21.950/3	304-4956	2.03	1.80	1.73	1.60	--
4	21.950/4	304-4968	2.71	2.44	2.31	2.15	--
5	21.950/5	304-4970	3.37	3.05	2.86	2.66	--
6	21.950/6	304-4981	4.04	3.63	3.43	3.21	--
8	21.950/8	304-4993	5.40	4.85	4.62	4.27	--
10	21.950/10	304-5006	6.74	6.07	5.78	5.33	--
12	21.950/12	304-5018	8.11	7.29	6.90	6.42	--
<b>Top Entry Header, Closed End</b>							
2	21.95V/2	304-5020	0.60	0.57	0.54	0.47	--
3	21.95V/3	304-5031	0.90	0.80	0.77	0.67	--
4	21.95V/4	304-5043	1.18	1.06	1.00	0.87	--
5	21.95V/5	304-5055	1.50	1.35	1.28	1.09	--
6	21.95V/6	304-5067	1.80	1.64	1.54	1.35	--
8	21.95V/8	304-5079	2.41	2.15	2.02	1.77	--
10	21.95V/10	304-5080	2.97	2.66	2.54	2.21	--
12	21.95V/12	304-5092	3.57	3.21	3.05	2.66	--
<b>Side Entry Header, Closed End</b>							
2	21.95H/2	304-5109	0.60	0.57	0.54	0.47	--
3	21.95H/3	304-5110	0.90	0.80	0.77	0.67	--
4	21.95H/4	304-5122	1.18	1.06	1.00	0.87	--

No of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	25+	100+	250+
<b>Side Entry Header, Closed End</b>						
5	21.95H/5	304-5134†	1.50	1.35	1.28	1.09
6	21.95H/6	304-5146†	1.80	1.64	1.54	1.35
8	21.95H/8	304-5158†	2.41	2.15	2.02	1.77
10	21.95H/10	304-5160†	2.97	2.66	2.54	2.21
12	21.95H/12	304-5171†	3.57	3.21	3.05	2.66

**12A Plug-In Terminal Blocks**  
7.5mm Pitch



- 2 to 12 way solid terminal block
- Open and closed headers R/A and vertical
- Vertical cable entry female plug-in
- Rising clamp terminals
- Approvals: **IMQ, VDE & CE, UL** recognised

Maximum Voltage	750V	Maximum Wire Size	2.5mm <sup>2</sup>
Current Rating	12.0A	Clamping Screw	M3 Zinc plated Steel 0.5Nm
Temperature Range	-20°C to 125°C	Housing	PA66 UL94V-0
Rising Clamp	Brass Copper flash/Nickel	Colour	Green

232096

Mfrs. List No.	Order Code	Price Each				
		1+	25+	100+	250+	
<b>Female - Vertical Cable Entry</b>						
2 way	CTB9400/2	388-2275 ●	1.57	1.19	1.00	0.90
3 way	CTB9400/3	388-2287 ●	2.38	1.80	1.51	1.35
4 way	CTB9400/4	388-2299 ●	3.15	2.41	1.99	1.77
6 way	CTB9400/6	388-2305 ●	4.72	3.60	3.02	2.66
8 way	CTB9400/8	388-2317 ●	6.29	4.82	3.98	3.53
12 way	CTB9400/12	388-2329 ●	9.41	7.22	5.97	5.33
<b>Male - PCB Header Vertical (Closed End)</b>						
2 way	CTB9500/2	388-2330 ●	0.41	0.30	0.27	0.24
3 way	CTB9500/3	388-2342 ●	0.60	0.47	0.41	0.36
4 way	CTB9500/4	388-2354 ●	0.80	0.60	0.54	0.47
6 way	CTB9500/6	388-2366 ●	1.19	0.90	0.77	0.71
8 way	CTB9500/8	388-2378 ●	1.60	1.22	1.03	0.90
12 way	CTB9500/12	388-2380 ●	2.41	1.83	1.54	1.38
<b>Male - PCB Header R/A (Closed End)</b>						
2 way	CTB9550/2	388-2391 ●	0.44	0.33	0.27	0.24
3 way	CTB9550/3	388-2408 ●	0.63	0.50	0.41	0.36
4 way	CTB9550/4	388-2410 ●	0.83	0.63	0.54	0.50
6 way	CTB9550/6	388-2421 ●	1.28	0.96	0.80	0.74
8 way	CTB9550/8	388-2433 ●	1.70	1.32	1.06	0.96
12 way	CTB9550/12	388-2445 ●	2.54	1.93	1.60	1.44
<b>Male - PCB Header Vertical (Open End)</b>						
2 way	CTB9500/2A0	388-2457 ●	0.41	0.30	0.27	0.24
3 way	CTB9500/3A0	388-2469 ●	0.60	0.47	0.41	0.36
4 way	CTB9500/4A0	388-2470 ●	0.80	0.60	0.54	0.47
6 way	CTB9500/6A0	388-2482 ●	1.19	0.90	0.77	0.71
8 way	CTB9500/8A0	388-2494 ●	1.60	1.22	1.03	0.90
12 way	CTB9500/12A0	388-2500 ●	2.41	1.83	1.54	1.38
<b>Male - PCB Header R/A (Open End)</b>						
2 way	CTB9550/2A0	388-2512 ●	0.44	0.33	0.27	0.24
3 way	CTB9550/3A0	388-2524 ●	0.63	0.50	0.41	0.36
4 way	CTB9550/4A0	388-2536 ●	0.83	0.63	0.54	0.50
6 way	CTB9550/6A0	388-2548 ●	1.28	0.96	0.80	0.74
8 way	CTB9550/8A0	388-2550 ●	1.70	1.32	1.06	0.96
12 way	CTB9550/12A0	388-2561 ●	2.54	1.93	1.60	1.44

**Powermate Series**  
7.62mm Pitch Free Plugs



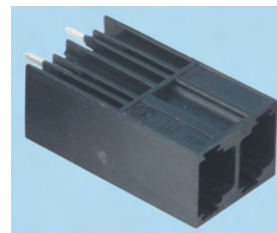
- Rising clamp technology
- Available with or without Locking Mechanism
- Top entry
- High Current load
- Small Dimensions
- Max cable size of 6mm<sup>2</sup>
- multi-functional locking mechanism
- Proof against incorrect mating

Maximum Voltage	300V	Flammability Class	UL94V-0
Current Rating	39A	Solid wire entry	6mm <sup>2</sup>
Temperature Range	-55°C to +100°C	Colour	Black

339232

No of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	25+	100+	250+
<b>Free Plug</b>						
2	BVZ 7.62/02/180	501-3677	4.13	3.94	3.55	3.42
3	BVZ 7.62/03/180	501-3689	6.22	5.92	5.34	5.14
4	BVZ 7.62/04/180	501-3690	7.68	7.49	6.74	6.48
5	BVZ 7.62/05/180	501-3707	9.60	9.34	8.40	8.07
6	BVZ 7.62/06/180	501-3719	12.47	11.88	10.71	10.29
7	BVZ 7.62/07/180	501-3720	14.55	13.87	12.47	12.01
8	BVZ 7.62/08/180	501-3732	15.40	14.97	13.44	12.95
9	BVZ 7.62/09/180	501-3744	18.72	17.84	16.05	15.46
10	BVZ 7.62/10/180	501-3756	19.24	18.72	16.86	16.28
11	BVZ 7.62/11/180	501-3768	17.67	17.16	--	--
12	BVZ 7.62/12/180	501-3770	23.11	22.46	20.21	19.46
<b>Free Plug With Locking Mechanism</b>						
2	BVZ 7.62/02/180SF	501-5236	6.22	5.92	5.34	5.14
3	BVZ 7.62/03/180SF	501-5248	7.68	7.49	6.74	6.48
4	BVZ 7.62/04/180SF	501-5250	9.60	9.34	8.40	8.07
5	BVZ 7.62/05/180SF	501-5261	11.56	11.20	10.12	9.70
6	BVZ 7.62/06/180SF	501-5273	13.44	13.09	11.78	11.29
7	BVZ 7.62/07/180SF	501-5285	15.40	14.97	13.44	12.95
8	BVZ 7.62/08/180SF	501-5297	18.72	17.84	16.05	15.46
9	BVZ 7.62/09/180SF	501-5303	16.05	15.59	15.58	--
10	BVZ 7.62/10/180SF	501-5315	21.22	20.57	18.52	17.87
11	BVZ 7.62/11/180SF	501-5327	19.27	18.72	18.69	--
12	BVZ 7.62/12/180SF	501-5339	25.26	24.48	22.04	21.26

**Powermate Series**  
7.62mm Pitch PCB Headers



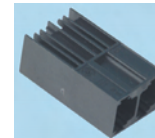
- High Current load
- Small Dimensions
- Max cable size of 6mm<sup>2</sup>
- Multi-functional locking mechanism
- Proof against incorrect mating

Maximum Voltage	300V
Current Rating	39A
Temperature Range	-55°C to +100°C
Flammability Class	UL94V-0
Solid wire entry	6mm <sup>2</sup>
Colour	Black

339221

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	25+	100+	250+
<b>Header Top Entry</b>						
2	SV 7.62/02/180G	501-3562 ●	2.54	2.41	2.18	2.08
3	SV 7.62/03/180G	501-3574 ●	3.81	3.61	3.26	3.12
4	SV 7.62/04/180G	501-3586 ●	5.05	4.82	4.33	4.20
5	SV 7.62/05/180G	501-3598 ●	6.31	6.02	5.44	5.21
6	SV 7.62/06/180G	501-3604 ●	7.58	7.23	6.51	6.28
7	SV 7.62/07/180G	501-3616 ●	8.85	8.43	7.58	7.29
8	SV 7.62/08/180G	501-3628 ●	10.12	9.63	8.66	8.37
9	SV 7.62/09/180G	501-3630 ●	11.39	10.84	9.76	9.41
10	SV 7.62/10/180G	501-3641 ●	12.66	12.04	10.84	10.45
11	SV 7.62/11/180G	501-3653 ●	13.90	13.25	11.91	11.49
12	SV 7.62/12/180G	501-3665 ●	15.23	14.52	13.05	12.60
<b>Header Top Entry With Locking Mechanism</b>						
2	SV 7.62/02/180SF	501-5121	3.52	3.39	3.09	2.96
3	SV 7.62/03/180SF	501-5133	5.05	4.82	4.33	4.20
4	SV 7.62/04/180SF	501-5145	6.31	6.02	5.44	5.21
5	SV 7.62/05/180SF	501-5157	7.58	7.23	6.51	6.28
6	SV 7.62/06/180SF	501-5169	8.85	8.43	7.58	7.29
7	SV 7.62/07/180SF	501-5170	10.12	9.63	8.66	8.37
8	SV 7.62/08/180SF	501-5182	11.39	10.84	9.76	9.41
9	SV 7.62/09/180SF	501-5194	12.66	12.04	10.84	10.45
10	SV 7.62/10/180SF	501-5200	13.90	13.25	11.91	11.49
11	SV 7.62/11/180SF	501-5212	15.23	14.52	13.05	12.60
12	SV 7.62/12/180SF	501-5224	16.56	15.81	14.46	14.01

**Powermate Series**  
7.62mm Pitch PCB Headers



- High Current load
- Small Dimensions
- Max cable size of 6mm<sup>2</sup>
- Available with or without multi-functional locking mechanism
- Proof against incorrect mating

Maximum Voltage	300V	Flammability Class	UL94V-0
Current Rating	39A	Solid wire entry	6mm <sup>2</sup>
Temperature Range	-55°C to +100°C	Colour	Black

339195

No. of Ways	Mfrs. List No.	Order Code	Price Each			
			1+	25+	100+	250+
<b>Header Side Entry</b>						
2	SV 7.62/02/90G	501-3458 ●	2.54	2.41	2.18	2.08
3	SV 7.62/03/90G	501-3460 ●	3.81	3.61	3.26	3.12
4	SV 7.62/04/90G	501-3471 ●	5.05	4.82	4.33	4.20
5	SV 7.62/05/90G	501-3483 ●	6.31	6.02	5.44	5.21
6	SV 7.62/06/90G	501-3495 ●	7.58	7.23	6.51	6.28

9

Connectors - PCB

Compliant  
Non-compliant  
RoHS  
Limited stock - RoHS replacement available



No. of Ways	Mfrs. List No.	Order Code	Price Each				
			1+	25+	100+	250+	+
<b>Header Side Entry</b>							
7	SV 7.62/07/90G	501-3501	8.85	8.43	7.58	7.29	--
8	SV 7.62/08/90G	501-3513	10.12	9.63	8.66	8.37	--
9	SV 7.62/09/90G	501-3525	11.39	10.84	9.76	9.41	--
10	SV 7.62/10/90G	501-3537	12.66	12.04	10.84	10.45	--
11	SV 7.62/11/90G	501-3549	13.90	13.25	11.91	11.49	--
12	SV 7.62/12/90G	501-3550	15.23	14.52	13.05	12.60	--
<b>Header Side Entry With Locking Mechanism</b>							
2	SV 7.62/02/90SF	501-5017	3.81	3.61	3.26	3.12	--
3	SV 7.62/03/90SF	501-5029	4.69	4.56	4.07	3.97	--
4	SV 7.62/04/90SF	501-5030	5.86	5.73	5.14	4.92	--
5	SV 7.62/05/90SF	501-5042	5.86	5.70	5.67	--	--
6	SV 7.62/06/90SF	501-5054	8.20	7.97	7.19	6.90	--
7	SV 7.62/07/90SF	501-5066	9.37	9.11	8.17	7.91	--
8	SV 7.62/08/90SF	501-5078	10.55	10.25	9.24	8.89	--
9	SV 7.62/09/90SF	501-5080	9.76	9.49	--	--	--
10	SV 7.62/10/90SF	501-5091	10.71	10.42	10.42	--	--
11	SV 7.62/11/90SF	501-5108	11.75	11.39	11.39	--	--
12	SV 7.62/12/90SF	501-5110	15.40	14.97	13.44	12.95	--



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