



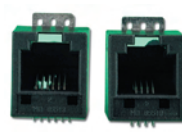
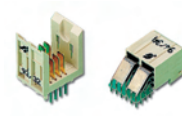
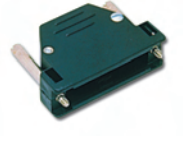
Contents

	Page
2.0mm Backpanel Systems	543
Card Edge Connectors	553
Centronics/IEEE 488 Style	527
Commercial 'D' Range	503
Connector Savers	514
'D' Accessories	526
Digital Visual Interface (DVI)	549
DIN41612 Class 1, 2 and 3	537
DIN41612 Performance Levels	537
Economy D Range	502
EMI/RFI Shielded 'D' Connectors	509
EMI/RFI Shielded 'D' Shells	521
FCC-68 Modular Connectors	530
Filtered 'D'	515
Gds A Series DIN41612 Class 2	539
Gds A Series DIN41612 Class 3	538
Gender Changers	514
HDMI	548
High Density 'D' Tin & Dimple	516
IEEE 1394 Connectors	546
Industrial 'D' Range	506
Memory Card Connectors	551
Micro Miniature 'D' Connectors	517
Plastic 'D'	517
RJ45 Ethernet Connector System	535
Serial ATA Storage Interface	548
SCSI Connectors	528
Signal & Data Tools	536
Smart Card Connectors	550
Standard 'D' Shells	519
Universal Serial Bus	544
USB Connector System	545



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you are looking for?

Economy D Range  SEE THIS PAGE	Gender Changers  SEE PAGE 514	EMI/RFI Shielding D  SEE PAGE 522	FCC-68 modular cntrs  SEE PAGE 530	VHDCI  SEE WEBSITE
Commercial D Range  SEE PAGE 503	Filtered D  SEE PAGE 516	D Accessories  SEE PAGE 526	Tooling  SEE WEBSITE	DVI  SEE PAGE 549
Industrial D Range  SEE PAGE 506	High Density D  SEE PAGE 516	D Range Plates and Panels  SEE WEBSITE	RJ45 Ethernet  SEE PAGE 535	Smart Card Connectors  SEE PAGE 550
EMI/RFI Shielding D  SEE PAGE 510	Plastic D  SEE PAGE 517	Centronics/IEEE 488 style  SEE PAGE 527	DIN41612  SEE PAGE 537	Memory Card Connectors  SEE PAGE 551
Rewireable "D"  SEE WEBSITE	Micro Miniature D  SEE PAGE 518	SCS1  SEE PAGE 528	2mm Backpanel Systems  SEE PAGE 543	Card Edge Connectors  SEE PAGE 553
Connector Savers  SEE PAGE 514	Standard D shells  SEE PAGE 519	Adaptors  SEE PAGE 529	Universal Serial BUS  SEE PAGE 544	Fire wire  SEE WEBSITE

Economy D Range

Economy D-Sub
Solder Bucket

Current Rating
Contact Resistance
Temperature range
Insulation Resistance

3A
30mΩ Max at DC 100mA
-55°C/105°C to +
1000MΩ Min

DWV
Contacts
Insulator
Housing

1000V AC for 1 Min
Brass/Gold plated
PBT and glass fibre UL94V-0
Steel - Nickel plated

240392

multicomp

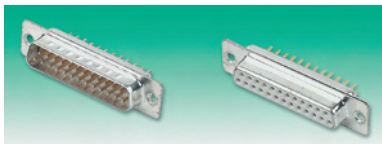
No. of Ways	Order Code	10+	100+	500+	1K+
Plugs					
9	415-5221▲‡	0.53	0.50	0.47	0.44
9	108-4672●	0.53	0.50	0.47	0.44
15	415-5233▲‡	0.72	0.69	0.66	0.59
15	108-4673●	0.72	0.69	0.66	0.59
25	415-5245▲‡	0.81	0.78	0.75	0.72
25	108-4674●	0.81	0.78	0.75	0.72
37	415-5257▲‡	1.23	1.11	1.05	1.02
37	108-4675●	1.23	1.11	1.05	1.02
50	415-5269▲‡	1.71	1.62	1.56	1.50
50	108-4676●	1.71	1.62	1.56	1.50
Sockets					
9	415-5270▲‡	0.53	0.50	0.47	0.44
9	108-4678●	0.53	0.50	0.47	0.44
15	415-5282▲‡	0.72	0.69	0.66	0.59
15	108-4679●	0.72	0.69	0.66	0.59

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	Order Code	10+	100+	500+	1K+
Sockets					
25	415-5294▲‡	0.81	0.78	0.75	0.72
25	108-4681●	0.81	0.78	0.75	0.72
37	415-5300▲‡	1.24	1.12	1.06	1.03
37	108-4682●	1.24	1.12	1.06	1.03
50	415-5312▲‡	1.71	1.62	1.56	1.50
50	108-4683●	1.71	1.62	1.56	1.50

Economy D-Sub Straight PCB - Formed Pin

multicomp



Current Rating	5A	Insulation Resistance	1000MΩ Min
Contact Resistance	5MΩ Max at 1A	DWV	500V AC for 1 Min
Temperature range	-40°C100°C to +	Contacts	Brass Gold plated

240398

No. of Ways	Order Code	10+	100+	500+	1K+
Plugs					
9	415-5324▲‡	0.64	0.57	0.54	0.47
9	108-4684●	0.64	0.57	0.54	0.47
15	415-5336▲‡	0.90	0.81	0.78	0.75
15	108-4686●	0.90	0.81	0.78	0.75
25	415-5348▲‡	1.14	1.08	1.02	0.99
25	108-4687●	1.14	1.08	1.02	0.99
37	415-5350▲‡	1.55	1.45	1.36	1.30
37	108-4688●	1.55	1.45	1.36	1.30
50	415-5361▲‡	3.09	2.79	2.49	2.25
50	108-4691●	3.09	2.79	2.49	2.25
Sockets					
9	415-5373▲‡	0.64	0.57	0.54	0.47
9	108-4692●	0.64	0.57	0.54	0.47
15	415-5385▲‡	0.90	0.81	0.78	0.75
15	108-4693●	0.90	0.81	0.78	0.75
25	415-5397▲‡	1.14	1.08	1.02	0.99
25	108-4694●	1.14	1.08	1.02	0.99
37	415-5403▲‡	1.55	1.45	1.36	1.30
37	108-4695●	1.55	1.45	1.36	1.30
50	415-5415▲‡	3.09	2.79	2.49	2.25
50	108-4696●	3.09	2.79	2.49	2.25

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

multicomp



Current Rating	5A	Insulation Resistance	1000MΩ Min
Contact Resistance	30MΩ Max at 1A	DWV	1000V AC for 1 Min
Temperature range	-55°C105°C to +	Contacts	Brass selective gold plated

240399

No. of Ways	Order Code	10+	100+	500+	1K+
Plugs					
9	415-5427▲‡	1.03	0.97	0.91	0.85
9	108-4697●	1.03	0.97	0.91	0.85
15	415-5439▲‡	1.26	1.20	1.11	1.05
15	108-4698●	1.26	1.20	1.11	1.05
25	415-5440▲‡	1.53	1.44	1.29	1.14
25	108-4699●	1.53	1.44	1.29	1.14
37	415-5452▲‡	2.01	1.80	1.62	1.44
37	108-4700●	2.01	1.80	1.62	1.44
Sockets					
9	415-5464▲‡	1.02	0.96	0.90	0.84
9	108-4701●	1.02	0.96	0.90	0.84
15	415-5476▲‡	1.26	1.20	1.11	1.05
15	108-4702●	1.26	1.20	1.11	1.05
25	415-5488▲‡	1.53	1.44	1.29	1.14
25	108-4703●	1.53	1.44	1.29	1.14
37	415-5490▲‡	2.01	1.80	1.62	1.44
37	108-4704●	2.01	1.80	1.62	1.44

Economy D-Sub - Formed Pin 90° PCB with Boardlocks and Screw Lock

multicomp



Current Rating	5A	Insulation Resistance	1000MΩ Min
Contact Resistance	30MΩ Max at 1A	DWV	1000V AC for 1 Min
Temperature range	-55°C105°C to +	Contacts	Brass selective gold plated

240403

No. of Ways	Order Code	10+	100+	500+	1K+
Plugs					
9	415-5506▲‡	1.20	1.11	1.05	0.99
9	108-4705●	1.20	1.11	1.05	0.99
15	415-5518▲‡	1.41	1.35	1.29	1.23
15	108-4706●	1.41	1.35	1.29	1.23
25	415-5520▲‡	1.68	1.59	1.44	1.32
25	108-4708●	1.68	1.59	1.44	1.32
37	415-5531▲‡	2.22	2.01	1.77	1.62
37	108-4709●	2.22	2.01	1.77	1.62
Sockets					
9	415-5543▲‡	1.20	1.11	1.05	0.99
9	108-4710●	1.20	1.11	1.05	0.99
15	415-5555▲‡	1.41	1.35	1.29	1.23
15	108-4711●	1.41	1.35	1.29	1.23
25	415-5567▲‡	1.68	1.59	1.44	1.32
25	108-4712●	1.68	1.59	1.44	1.32
37	415-5579▲‡	2.22	2.01	1.77	1.62
37	108-4713●	2.22	2.01	1.77	1.62

Commercial 'D' Range

Commercial 'D' (Formed Pin)

ITW McMurdo
Connectors

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

Contact rating	5A @70 °C	Housing	Steel, yellow passive over Zinc plating
Contact resistance	15mΩmax	Insulator	White or Black two piece polyester
Working voltage	500V dc/ac peak		UL94V-0
Temperature range	-55°C to +105°C	Contacts	Formed copper alloy, gold over nickel plating
Mating cycles	100	Terminations	Solder bucket - tinned PCB - gold plated

209912

Solder Bucket

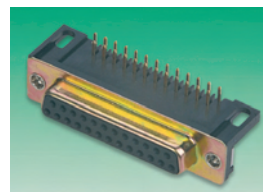
ITW McMurdo
Connectors

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

No of Ways	Order Code	5+	25+	100+	250+	+	+
Plugs							
9	150-808●	1.28	1.19	1.03	0.83	--	--
15	150-809●	1.73	1.67	1.54	1.19	--	--
25	150-810●	2.20	2.02	1.77	1.38	--	--
37	150-811●	3.51	3.27	2.95	2.60	--	--
Sockets							
9	150-812●	1.84	1.70	1.44	0.90	--	--
15	150-813●	2.20	2.02	1.77	1.38	--	--
25	150-814●	2.88	2.47	2.02	1.51	--	--
37	150-815●	5.10	4.88	4.46	3.50	--	--

90° PCB

ITW McMurdo
Connectors

Compliant
Non-compliant
+ Limited stock - RoHS replacement available

RoHS

Mfrs. List No. SDE9PN=150-816, SDA15PN=150-817, SDB25PN=150-818, SDC37PN=150-819
SDE9SN=150-820, SDA15SN=150-821, SDB25SN=150-822, SDC37SN=150-823

209934

No of Ways	Order Code	1+	25+	100+	250+	+	+
Plugs							
9	150-816†	3.78	3.56	3.31	2.76	--	--
9	107-5281●	3.78	3.56	3.31	2.76	--	--
15	150-817†	4.98	4.69	4.30	3.63	--	--
15	107-5282●	4.98	4.69	4.30	3.63	--	--
25	150-818†	5.84	5.55	5.20	4.33	--	--
25	107-5283●	5.84	5.55	5.20	4.33	--	--
37	150-819†	8.58	8.38	7.80	6.48	--	--
37	107-5284●	8.58	8.38	7.80	6.48	--	--
Sockets							
9	150-820†	4.14	4.01	3.69	2.76	--	--
9	107-5285●	4.14	4.01	3.69	2.76	--	--
15	150-821†	5.37	5.14	4.75	3.85	--	--
15	107-5286●	5.37	5.14	4.75	3.85	--	--
25	150-822†	6.81	6.58	5.97	4.91	--	--
25	107-5288●	6.81	6.58	5.97	4.91	--	--
37	150-823†	11.78	11.17	10.05	8.41	--	--
37	107-5289●	11.78	11.17	10.05	8.41	--	--

90° PCB with Screwlocks

ITW McMurdo Connectors



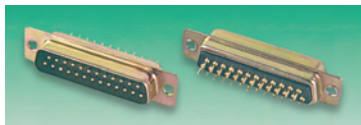
Mfrs. List No. SDES9PN = 150-710, SDC37PN = 150-713, SDBS25SN = 150-716,
SDAS15PN = 150-711, SDES9N = 150-714, SDC37SN = 150-717,
SDB25PN = 150-712, SDA15SN = 150-715,

209947

No of Ways	Order Code	1+	25+	100+	250+	+	+
Plugs							
9	150-710†	4.30	4.11	3.66	3.15	--	--
9	107-5243●	4.30	4.11	3.66	3.15	--	--
15	150-711†	5.54	5.23	4.75	3.98	--	--
15	107-5244●	5.54	5.23	4.75	3.98	--	--
25	150-712†	6.85	6.61	5.97	4.88	--	--
25	107-5245●	6.85	6.61	5.97	4.88	--	--
37	150-713†	9.51	9.28	8.57	7.03	--	--
37	107-5246●	9.51	9.28	8.57	7.03	--	--
Sockets							
9	150-714†	4.84	4.62	4.14	3.15	--	--
9	107-5247●	4.84	4.62	4.14	3.15	--	--
15	150-715†	6.11	5.84	5.23	4.30	--	--
15	107-5248●	6.11	5.84	5.23	4.30	--	--
25	150-716†	7.68	7.35	6.58	5.36	--	--
25	107-5249●	7.68	7.35	6.58	5.36	--	--
37	150-717†	13.15	12.42	10.98	9.18	--	--
37	107-5250●	13.15	12.42	10.98	9.18	--	--

Straight PCB (Turned Pin)

ITW McMurdo Connectors



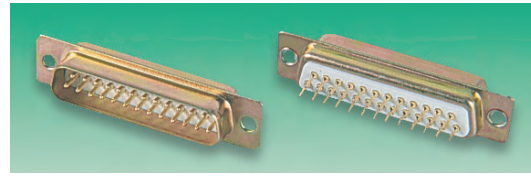
Mfrs. List No. SDE9POL = 150-718, SDC37POL = 150-721, SDBS25SOL = 150-724,
SDA15POL = 150-719, SDE9POL = 1210827, SDC37SOL = 150-725,
SDB25POL = 150-720, SDA15SOL = 150-723,

209958

No of Ways	Order Code	1+	25+	100+	250+	+	+
Plugs							
9	150-718▲	2.07	1.93	1.73	1.32	--	--
15	150-719▲	2.80	2.60	2.18	1.77	--	--
25	150-720▲	4.08	3.72	3.27	2.66	--	--
37	150-721▲	6.38	5.97	5.14	4.33	--	--
Sockets							
9	121-0827●	2.44	2.21	1.95	1.79	--	--
15	150-723▲	3.43	3.24	2.76	2.34	--	--
25	107-5155●	4.77	4.40	3.92	3.18	--	--
37	107-5156●	8.22	7.64	6.68	5.52	--	--

'Solda' D (Formed Pin)

Cannon

ITT Industries
Engineered for life

- A quality range of formed contact style solder bucket 'D' connectors
- Fully mateable and suitable for use with all standard 'D' range connectors and accessories

Contact rating 3A @25 °C
Contact resistance 20mΩmax
Working voltage 350V dc/ac peak
Temperature range -55°C to +125°C
Mating cycles 100
Housing Steel, yellow chromate over zinc plating
Insulator Monobloc Polyester, UL94V-0
Contacts Formed copper alloy, gold over nickel plating

219861

No of Ways	Mfrs. List No.	Order Code	1+	25+	100+	250+	+	+
Solder Bucket Plugs								
9	ADE9P	315-126▲	1.90	1.80	1.59	1.35	--	--
15	ADA15P	315-138▲	2.23	2.12	2.01	1.89	--	--
25	ADB25P	315-140▲	2.59	2.46	2.46	2.07	--	--
37	ADC37P	315-151	4.00	3.80	3.75	3.18	--	--
Solder Bucket Sockets								
9	ADE9S	315-163▲	2.03	1.89	1.74	1.47	--	--
15	ADA15S	315-175▲	2.96	2.85	2.55	2.19	--	--
25	ADB25S	315-187▲	3.55	3.37	3.20	3.00	--	--
37	ADC37S	315-199▲	5.26	5.00	4.83	4.14	--	--

TDE Series

Straight PCB D-Sub Connectors
with Boardlocks

tyco Electronics AMP



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

- Boardlocks as standard
- Gold plated contacts
- Choice of 4-40 Threaded inserts or 4-40 female screwlocks
- Front shell Tin plated steel
- UL Listed

Contact material - Plug Brass
Contact material - Socket Phosphor Bronze
Contact plating Gold
Insulation resistance 1000MR
Temperature range °C-55°C105 To +
Dielectric withstand voltage 500V
Housing Black Thermoplastic

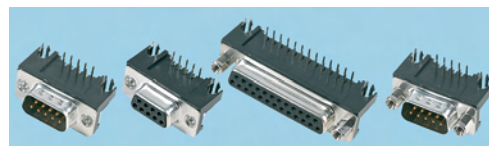
338945

No. of Ways	Order Code	1+	25+	50+	250+
Plugs with boardlocks					
With Threaded Inserts					
9	508-1932●	2.07	1.92	1.71	1.26
15	508-1944●	2.61	2.40	2.13	1.59
25	508-1956●	3.48	3.15	2.85	2.13
37	508-1968●	5.49	5.01	4.50	3.42
With Female Screwlocks					
9	508-1970●	2.55	2.34	2.07	1.56
15	508-1981●	3.06	2.79	2.52	1.86
25	508-1993●	3.93	3.57	3.24	2.46
37	508-2006●	5.97	5.46	4.89	3.69
Sockets with Boardlocks					
With Threaded Inserts					
9	508-2018●	2.16	1.98	1.80	1.32
15	508-2020●	2.73	2.52	2.22	1.68
25	508-2031●	3.69	3.36	3.00	2.28
37	508-2043●	5.79	5.28	4.74	3.57
With Female Screwlocks					
9	508-2055●	2.64	2.43	2.16	1.62
15	508-2067●	3.24	2.91	2.64	1.95
25	508-2079●	4.11	3.75	3.42	2.55
37	508-2080●	6.30	5.73	5.16	3.87

TDE Series European Footprint

90° PCB D-Sub Connectors
with Boardlocks

tyco Electronics AMP



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

NEW

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

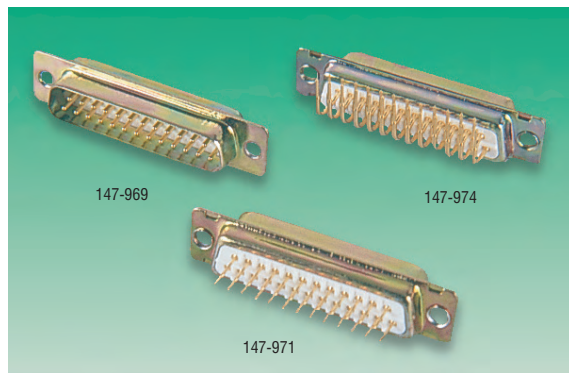
● UL Recognised

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

383301

Mfrs. List No.	No. of Ways	Order Code	1+	25+	50+	250+
Plugs with boardlocks						
With Threaded Inserts						
1-1634580-2	9	839-1246●	2.57	2.34	2.05	1.59
1-1634581-2	15	839-1254●	3.22	2.93	2.54	1.95
1-1634582-2	25	839-1262●	4.33	3.91	3.42	2.70
1-1634583-2	37	839-1270●	6.80	6.15	5.37	4.20
With Female Screwlocks						
3-1634580-2	9	839-1327●	3.12	2.83	2.47	1.92
3-1634581-2	15	839-1335●	3.81	3.45	3.03	2.34
3-1634582-2	25	839-1343●	4.85	4.36	3.87	2.99
3-1634583-2	37	839-1351●	7.36	6.71	5.92	4.52
Sockets with Boardlocks						
With Threaded Inserts						
1-1634584-2	9	839-1289●	2.70	2.44	2.12	1.69
1-1634585-2	15	839-1297●	3.35	3.09	2.73	2.05
1-1634586-2	25	839-1300●	4.49	4.10	3.58	2.80
1-1634587-2	37	839-1319●	7.16	6.54	5.70	4.39
With Female Screwlocks						
3-1634584-2	9	839-1360●	3.26	2.99	2.67	1.99
3-1634585-2	15	839-1378●	3.97	3.61	3.19	2.44
3-1634586-2	25	839-1386●	5.14	4.65	4.10	3.19
3-1634587-2	37	839-1394●	7.78	7.10	6.22	4.78

Turned Pin



Quality turned pin connectors at very competitive prices. Fully mateable and suitable for use with all the standard 'D' range connectors and accessories.

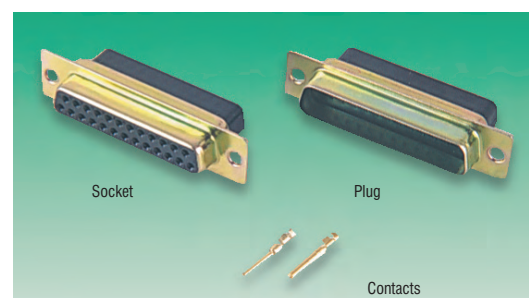
Contact rating	6.5A @ 70°C	Working voltage	500V dc/ac peak
Contact resistance	10mΩmax		

219862

No of Ways	Order Code	1+	50+	100+	250+	+	+
Solder Bucket Plugs							
9	105-681▲‡	2.50	2.38	2.25	1.83	--	--
9	107-5224●	2.50	2.38	2.25	1.83	--	--
15	105-682▲‡	3.64	3.11	2.79	2.57	--	--
15	107-5225●	3.64	3.11	2.79	2.57	--	--
25	147-969‡	3.97	3.72	3.56	2.86	--	--
25	107-5239●	3.97	3.72	3.56	2.86	--	--
37	105-683▲‡	6.98	6.36	5.59	5.04	--	--
37	107-5227●	6.98	6.36	5.59	5.04	--	--
Solder Bucket Sockets							
9	105-684▲‡	3.51	2.99	2.66	2.44	--	--
9	107-5228●	3.51	2.99	2.66	2.44	--	--
15	105-685▲‡	4.88	4.46	3.78	3.71	--	--
15	107-5229●	4.88	4.46	3.78	3.71	--	--
25	147-970‡	5.78	5.49	5.20	4.21	--	--
25	107-5241●	5.78	5.49	5.20	4.21	--	--
37	105-686▲‡	9.24	8.92	7.38	6.68	--	--
37	107-5230●	9.24	8.92	7.38	6.68	--	--
90°PCB Plugs							
9	105-687▲‡	3.67	3.34	2.95	2.63	--	--
9	107-5232●	3.67	3.34	2.95	2.63	--	--
15	105-688▲‡	5.31	4.82	4.26	4.20	--	--
15	107-5233●	5.31	4.82	4.26	4.20	--	--
25	147-973▲‡	8.88	8.38	7.96	6.39	--	--
25	107-5150●	8.88	8.38	7.96	6.39	--	--
37	105-689▲‡	12.05	10.82	9.63	8.70	--	--
37	107-5234●	12.05	10.82	9.63	8.70	--	--
90°PCB Sockets							
9	105-690▲‡	4.38	3.50	3.27	3.08	--	--
9	107-5235●	4.38	3.50	3.27	3.08	--	--
15	105-691▲‡	6.85	6.23	5.49	4.94	--	--
15	107-5236●	6.85	6.23	5.49	4.94	--	--
25	147-974‡	10.25	9.70	9.34	8.20	--	--

No of Ways	Order Code	1+	50+	100+	250+	+	+
90°PCB Sockets							
25	107-5242●	10.25	9.70	9.34	8.20	--	--
37	105-692▲‡	15.19	14.54	12.13	10.98	--	--
37	107-5237●	15.19	14.54	12.13	10.98	--	--
Straight PCB Plugs							
9	105-693▲‡	2.41	2.12	1.93	1.73	--	--
9	107-1799●	2.41	2.12	1.93	1.73	--	--
15	105-694▲‡	3.34	2.99	2.66	2.44	--	--
15	107-1800●	3.34	2.99	2.66	2.44	--	--
25	147-971▲‡	4.44	3.53	3.34	3.11	--	--
25	107-1805●	4.44	3.53	3.34	3.11	--	--
37	105-695▲‡	6.94	6.20	5.55	5.04	--	--
37	107-1801●	6.94	6.20	5.55	5.04	--	--
Straight PCB Sockets							
9	105-696▲‡	3.54	3.18	2.82	2.54	--	--
9	107-1802●	3.54	3.18	2.82	2.54	--	--
15	105-697▲‡	5.14	4.40	4.11	3.69	--	--
15	107-1803●	5.14	4.40	4.11	3.69	--	--
25	147-972▲‡	7.18	6.81	6.45	4.56	--	--
37	105-698▲‡	10.79	9.50	8.60	7.80	--	--

Crimp 'D' (Formed Pin)



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

Contact rating	4A @70 °C	Mating cycles	100
Contact resistance	10mΩmax	Housing	Steel yellow passive over zinc plating
Working voltage	500V dc/ac peak	Insulator	Black two piece thermoplastic, UL94V-0
Temperature range	-55°C to +105°C	Contacts	Formed copper alloy, Gold plating

Suitable wire sizes:
24/28AWG, 0.08-0.22²/7/0.2 or 10/0.1
/24AWG, 0.08-0.52²/7/0.2 or 16/0.2

Mfrs. List No.	DEC9P = 151-228, DCC37P = 151-231, DBS25S = 151-234, MP649-06 = 1206623,	DAC15P = 151-229, DEC9S = 151-232, DCC37S = 151-235 MP648-16 = 1206624	DB25P = 151-230, DAC15S = 151-233, MP647-06 = 1206622, MP650-16 = 1206625
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210010

No of Ways	Order Code	1+	50+	100+	250+	+	+
Plug Housings							
9	151-228▲‡	2.84	2.18	1.77	1.38	--	--
9	107-5190●	2.84	2.18	1.77	1.38	--	--
15	151-229●	3.10	2.38	1.99	1.54	--	--
25	151-230●	3.34	2.50	2.02	1.64	--	--
37	151-231‡	3.94	2.95	2.38	1.89	--	--
37	107-5302●	3.94	2.95	2.38	1.89	--	--
Socket Housings							
9	151-232▲‡	3.07	2.28	1.96	1.54	--	--
9	107-5191●	3.07	2.28	1.96	1.54	--	--
15	151-233●	3.27	2.47	2.02	1.64	--	--
25	151-234●	3.40	2.63	2.15	1.73	--	--
37	151-235●	4.14	3.18	2.63	1.99	--	--
Price Per Pack							
Crimp Contacts (50 Per Pack)							
24/28 AWG Pin	120-6622●	13.25	11.75	10.09	9.34		
20/24 AWG Pin	120-6623●	13.25	11.75	10.09	9.34		
24/28 AWG Socket	120-6624●	13.25	11.75	10.09	9.34		
20/24 AWG Socket	120-6625●	13.25	11.75	10.09	9.34		

Tooling for Crimp 'D'



Mfrs. List No. MP600HD = 151-266, MP601 = 151-240

12

Connectors - Signal & Data

Compliant
Non-compliant
+ Limited stock - RoHS replacement available

RoHS

224273

Crimp Tool	Order Code	Price Each
Extraction Tool	151-226	349.39
	151-240	13.86

Turned Pin

ITW McMurdo
Connectors

- McMurdo Basic 'D' is fully interchangeable with all standard 'D' range
- Suitable for use with all standard accessories.

Contact rating	A70°C6.5 @	Mating cycles	300
Contact resistance	mR10 max.	Housing	Steel, Zinc plating
Working voltage	V500 dc/ac peak	Insulator	UL94V-0 Red two piece polyester,
Temperature range	°C105°C-55 to +	Contacts	Turned Copper alloy, Gold over Nickel plating

210104

No. of Ways	Order Code	1+	25+	50+	100+	+	+
Solder Bucket plugs							
9	315-278‡	4.17	4.01	3.50	2.76	--	--
9	107-5307●	4.17	4.01	3.50	2.76	--	--
15	315-280‡	5.34	5.10	4.46	3.50	--	--
15	107-5308●	5.34	5.10	4.46	3.50	--	--
25	315-291‡	7.01	6.68	5.91	4.62	--	--
25	107-5309●	7.01	6.68	5.91	4.62	--	--
37	315-308‡	9.98	9.57	8.41	6.58	--	--
37	107-5310●	9.98	9.57	8.41	6.58	--	--
Solder Bucket Sockets							
9	315-310‡	5.54	5.26	4.65	3.63	--	--
9	107-5311●	5.54	5.26	4.65	3.63	--	--
15	315-321‡	7.28	6.90	6.13	4.78	--	--
15	107-5312●	7.28	6.90	6.13	4.78	--	--
25	315-333▲‡	10.38	10.08	8.83	6.97	--	--
25	107-1817●	10.38	10.08	8.83	6.97	--	--
37	315-345‡	11.59	11.20	9.93	8.95	--	--
37	107-5313●	11.59	11.20	9.93	8.95	--	--
Straight PCB Plugs							
25	315-369▲‡	10.65	10.27	9.02	7.00	--	--
25	107-5192●	10.65	10.27	9.02	7.00	--	--
Straight PCB Sockets							
25	315-382‡	14.49	13.90	12.23	9.57	--	--
25	107-5314●	14.49	13.90	12.23	9.57	--	--
90° PCB Plugs							
25	315-400‡	11.59	11.13	9.93	8.95	--	--
25	107-5315●	11.59	11.13	9.93	8.95	--	--
90° PCB Sockets							
25	315-424‡	17.35	16.89	14.84	13.48	--	--
25	107-5316●	17.35	16.89	14.84	13.48	--	--

Industrial 'D' Range

Turned Pin

ITW McMurdo
Connectors

Note: 50 way plug and socket have white insulator

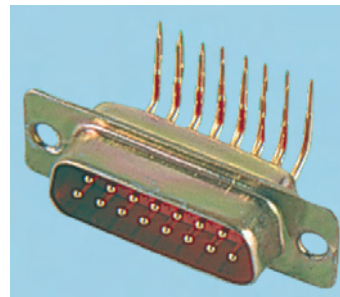
Contact rating	6.5A @70 °C	Housing	Steel, yellow passivate over zinc plating
Contact resistance	5mΩmax	Insulator	Red two piece polyester, UL94V-0
Working voltage	500V dc/ac peak	Contacts	Turned Copper alloy, Gold plating
Breakdown voltage	2100V dc		
Temperature range	-55°C to +105°C		
Environmental	55/105/21 plus industrial atmosphere		
	specifications to RTD23099A		
Mating cycles	500		

210105

No of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	+	+
Solder Bucket Plugs								
9	DE9P.	315-473‡	8.22	6.74	6.07	4.53	--	--
9	DE9P.	107-5318●	8.22	6.74	6.07	4.53	--	--
15	DA15P.	315-485‡	12.88	10.63	9.44	7.19	--	--
15	DA15P.	107-5319●	12.88	10.63	9.44	7.19	--	--

No of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	+	+
Solder Bucket Plugs								
25	DB25P.	315-497●	19.46	16.02	14.41	10.85	--	--
37	DC37P.	315-503‡	25.97	21.38	19.20	14.48	--	--
37	DC37P.	107-5320●	25.97	21.38	19.20	14.48	--	--
Solder Bucket Sockets								
9	DE9S.	315-527‡	13.39	10.85	9.82	7.29	--	--
9	DE9S.	107-5321●	13.39	10.85	9.82	7.29	--	--
15	DA15S.	315-539‡	18.86	15.34	13.26	10.30	--	--
15	DA15S.	107-5322●	18.86	15.34	13.26	10.30	--	--
25	DB25S.	315-540‡	28.11	22.98	20.74	15.41	--	--
25	DB25S.	107-5323●	28.11	22.98	20.74	15.41	--	--
37	DC37S.	315-552▲‡	39.70	32.45	29.08	21.70	--	--
37	DC37S.	107-5193●	39.70	32.45	29.08	21.70	--	--
50	DD50S.	315-564‡	52.34	42.89	38.49	28.73	--	--
50	DD50S.	107-5324●	52.34	42.89	38.49	28.73	--	--

Turned Pin 90° PCB

ITW McMurdo
Connectors

219868

No of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	+	+
PCB Plugs								
9	DE9PN.	315-576‡	12.58	11.40	10.05	7.74	--	--
9	DE9PN.	107-5325●	12.58	11.40	10.05	7.74	--	--
15	DA15PN.	315-588‡	14.13	12.79	11.39	10.03	--	--
15	DA15PN.	107-5326●	14.13	12.79	11.39	10.03	--	--
25	DB25PN.	315-590▲‡	25.34	22.86	20.22	15.54	--	--
25	DB25PN.	107-1818●	25.34	22.86	20.22	15.54	--	--
37	DC37PN.	315-606▲‡	37.35	33.77	29.82	22.89	--	--
37	DC37PN.	107-5194●	37.35	33.77	29.82	22.89	--	--
PCB Sockets								
9	DE9SN.	315-620‡	16.39	14.83	13.13	10.08	--	--
9	DE9SN.	107-5327●	16.39	14.83	13.13	10.08	--	--
15	DA15SN.	315-631‡	22.66	20.48	18.04	13.90	--	--
15	DA15SN.	107-5328●	22.66	20.48	18.04	13.90	--	--
25	DB25SN.	315-643▲‡	31.15	28.38	25.23	22.17	--	--
25	DB25SN.	107-5195●	31.15	28.38	25.23	22.17	--	--
37	DC37SN.	315-655‡	49.51	44.81	39.68	30.40	--	--
37	DC37SN.	107-5331●	49.51	44.81	39.68	30.40	--	--

Turned Pin Straight PCB

ITW McMurdo
Connectors

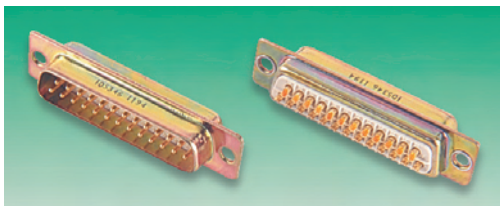
FOR SUITABLE EXTENDED SCREW LOCK & PCB SPACER SEE 105-025 & 315-965.

224274

No of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	+	+
PCB Plugs								
9	DE9POL.	315-667‡	14.72	12.07	10.69	8.25	--	--
9	DE9POL.	107-5332●	14.72	12.07	10.69	8.25	--	--
15	DA15POL.	315-679‡	17.13	14.12	12.42	9.57	--	--
15	DA15POL.	107-5333●	17.13	14.12	12.42	9.57	--	--
25	DB25POL.	315-680‡	25.51	21.03	18.62	14.16	--	--
25	DB25POL.	107-5334●	25.51	21.03	18.62	14.16	--	--
37	DC37POL.	315-692▲‡	34.15	28.22	24.88	19.10	--	--
37	DC37POL.	107-5197●	34.15	28.22	24.88	19.10	--	--
PCB Sockets								
9	DE9SOL.	315-710▲‡	16.69	13.67	12.13	9.31	--	--
9	DE9SOL.	107-5198●	16.69	13.67	12.13	9.31	--	--
15	DA15SOL.	315-722▲‡	23.47	19.36	17.05	13.16	--	--
15	DA15SOL.	107-5199●	23.47	19.36	17.05	13.16	--	--
25	DB25SOL.	315-734▲	33.92	27.93	24.75	19.00	--	--
37	DC37SOL.	315-746▲	47.34	39.10	34.57	26.55	--	--

Standard 'D' Range - Solder Bucket

LORLIN



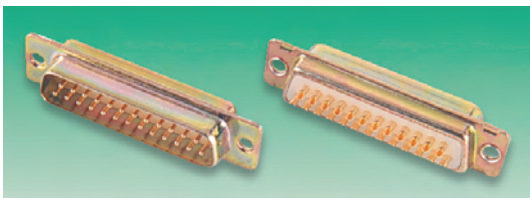
- Available in five shell sizes 9, 15, 25, 37 and 50 contacts
- Solder bucket termination.

Contact rating	5A @60 °C	Housing	Steel, yellowpassivate over zinc plating
Contact resistance	5mΩmax	Insulator	White two piece thermoplastic, UL94V-0
Working voltage	500V dc/ac peak	Contacts	Copper alloy, Gold over Nickel plating
Breakdown voltage	1500V dc		
Temperature range	-55°C to +125°C		
Mating cycles	500		

209664

No of Ways	Mftrs. List No.	Order Code	1+	25+	100+	250+	+
Plugs							
9	SDP9Z	113-2405	5.04	4.43	3.79	2.70	--
15	SDP15Z	113-2406	6.77	5.94	5.10	3.63	--
25	SDP25Z	113-2407	9.12	8.02	6.84	4.88	--
37	SDP37Z	113-2408	12.42	10.91	9.31	6.64	--
50	SDP50Z	113-2409	16.69	14.70	12.52	8.96	--
Sockets							
9	SDS9Z	113-2410	6.77	5.94	5.10	3.63	--
15	SDS15Z	113-2411	9.12	8.02	6.84	4.88	--
25	SDS25Z	113-2412	13.79	12.13	10.34	7.38	--
37	SDS37Z	113-2413	19.42	17.02	14.52	10.37	--
50	SDS50Z	113-2414	23.87	20.77	17.59	12.78	--

Original 'D' Solder Bucket

Cannon
ITT Industries
Engineered for life

Mftrs. List No.	DA15P-A191 = 140-802	DA15P-A191 = 140-802	DA15P-A191 = 140-802
Mftrs. List No.	DA15P-A191 = 117-7014	DA15P-A191 = 117-7014	DA15P-A191 = 117-7014
	DA15S-A191 = 140-803	DB25P-A191 = 140-804	DB25S-A191 = 140-805
	DA15S-A191 = 117-7015	DB25P-A191 = 117-7016	DB25S-A191 = 117-7017
	DD50S-A191 = 140-809	DC37S-A191 = 140-807	DD50P-A191 = 140-808
	DD50S-A191 = 117-7021	DC37S-A191 = 117-7019	DD50P-A191 = 117-7020
	DC37P-A191 = 117-7018	DC37P-A191 = 117-7018	

210108

No of Ways	Order Code	1+	10+	50+	100+	+	+
Solder Bucket Plugs							
9	140-800	10.97	10.10	9.11	8.23	--	--
9	117-7012	11.74	10.81	9.75	8.81	--	--
15	140-802	13.54	12.45	11.24	10.15	--	--
15	117-7014	14.49	13.32	12.03	10.86	--	--
25	140-804	15.38	14.15	12.76	11.53	--	--
25	117-7016	16.46	15.14	13.65	12.34	--	--
37	140-806	19.54	17.98	16.22	14.66	--	--
37	117-7018	20.91	19.24	17.36	15.69	--	--
50	140-808	24.51	22.55	20.34	18.38	--	--
50	117-7020	26.23	24.13	21.76	19.67	--	--
Solder Bucket Sockets							
9	140-801	10.97	10.10	9.11	8.23	--	--
9	117-7013	11.74	10.81	9.75	8.81	--	--
15	140-803	13.54	12.45	11.24	10.15	--	--
15	117-7015	14.49	13.32	12.03	10.86	--	--
25	140-805	33.42	26.58	20.61	15.24	--	--
25	117-7017	35.76	28.44	22.05	16.31	--	--
37	140-807	25.71	23.66	21.34	19.28	--	--
37	117-7019	27.51	25.32	22.83	20.63	--	--
50	140-809	40.53	37.29	33.64	30.40	--	--
50	117-7021	43.37	39.90	35.99	32.53	--	--

Burgun-D Range (Crimp Contacts)

Cannon
ITT Industries
Engineered for life

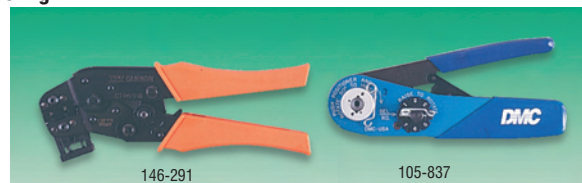
- D range connectors with rear release crimp snap in contacts
- Connector housing supplied without contacts loaded
- Highly reliable socket contact, sleeveless, spring finger contact that is inserted/extracted from the rear of insulator
- Ideal for selective loaded contacts application

Contact rating	A5 5	Mating cycles	500 (performance Class 2 DIN41652)				
Contact resistance	8mR max	Housing	Steel, yellow chromate over zinc plating				
Working Voltage	350V	Insulator	Black, two piece polyester, UL94V-0				
Breakdown Voltage	1500V dc	Contacts	Formed cadmium copper, gold over nickel plating				
Temperature range	-55°C to +120°C						
Plug Housings		Mftrs. List no.	Order Code	Socket Housings		Mftrs. List no.	Order Code
9 Pole	DEU9PFO.	146-445		9 Pole	DEU9SFO.	146-280	
9 Pole	DEU9PFO.	117-7032		9 Pole	DEU9SFO.	117-7022	
15 Pole	DAU15PFO.	146-281		15 Pole	DAU15SFO.	146-282	
15 Pole	DAU15PFO.	117-7024		15 Pole	DAU15SFO.	117-7025	
25 Pole	DBU25PFO.	146-283		25 Pole	DBU25SFO.	146-284	
25 Pole	DBU25PFO.	117-7026		25 Pole	DBU25SFO.	117-7027	
37 Pole	DCU37PFO.	146-285		37 Pole	DCU37SFO.	146-286	
37 Pole	DCU37PFO.	117-7028		37 Pole	DCU37SFO.	117-7029	
50 Pole	DDU50PFO.	146-287		50 Pole	DDU50SFO.	146-288	
50 Pole	DDU50PFO.	117-7030		50 Pole	DDU50SFO.	117-7031	
Open Crimps					Mftrs. List No.	Order Code	
Pin contact 0.08-0.22mm ² (26-28 AWG)-pack of 100					3307635010	118-6665	
Socket contact 0.08-0.22mm ² (26-28 AWG)-pack of 100					3307636010	118-6666	
Barrel Crimps							
Pin crimp 0.6-0.22mm ² (20-24AWG)-pack of 25					0301952000	121-5617	
Socket crimp 0.6-0.23mm ² (20-24AWG)-pack of 25					0301953000	121-5618	

209665

No of Ways	Order Code	1+	10+	50+	100+	+	+
Plug Housings							
9	146-445	3.59	3.37	3.04	2.75	--	--
9	117-7032	3.84	3.61	3.25	2.94	--	--
15	146-281	3.74	3.44	3.11	2.81	--	--
15	117-7024	4.00	3.68	3.33	3.01	--	--
25	146-283	3.74	3.44	3.11	2.81	--	--
25	117-7026	4.00	3.68	3.33	3.01	--	--
37	146-285	4.13	3.80	3.43	3.10	--	--
37	117-7028	4.42	4.07	3.67	3.32	--	--
50	146-287	9.45	8.83	7.97	7.20	--	--
50	117-7030	10.11	9.45	8.53	7.70	--	--
Socket Housings							
9	146-280	3.68	3.44	3.11	2.81	--	--
9	117-7022	3.94	3.68	3.33	3.01	--	--
15	146-282	3.78	3.52	3.17	2.87	--	--
15	117-7025	4.04	3.77	3.39	3.07	--	--
25	146-284	3.82	3.52	3.17	2.87	--	--
25	117-7027	4.09	3.77	3.39	3.07	--	--
37	146-286	4.18	3.95	3.56	3.22	--	--
37	117-7029	4.47	4.23	3.81	3.45	--	--
50	146-288	9.58	9.04	8.15	7.37	--	--
50	117-7031	10.25	9.67	8.72	7.89	--	--
Open Crimp (100 Per Pack)							
Pin	118-6665	44.85	40.30	38.67	37.86	--	--
Socket	118-6666	64.32	58.43	57.26	56.12	--	--
Barrel Crimp (25 Per Pack)							
Pin	121-5617	13.41	12.27	10.77	9.24	--	--
Socket	121-5618	40.10	36.78	32.32	27.77	--	--

Tooling



Mftrs. List No.	CCT-D*U5GB= 146-291, M22520-02-01= 105-837,	CIET-20-HD= 146-292 L22520-HDL= 105-838, SK2/2= 561-447
-----------------	--	--

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

209666

	Order Code	1+	5+	10+
Open crimp tool	146-291	553.00	493.44	475.08
Insertion/Extraction tool	146-292	11.37	9.75	8.85
Barrel crimp tool	105-837	785.85	--	--
Locator plate	105-838	229.65	214.02	191.94
Crimp positioner	561-447	254.10	--	--

12

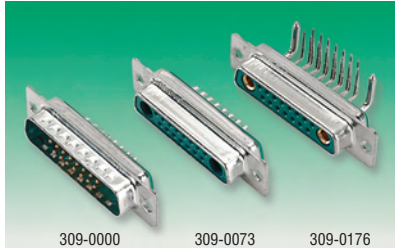
Connectors - Signal & Data

Compliant
Non-compliant
Limited stock - RoHS replacement available

RoHS

Mixed Signal 'D' Connectors

Mixed Power DW Series



309-0000 309-0073 309-0176

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

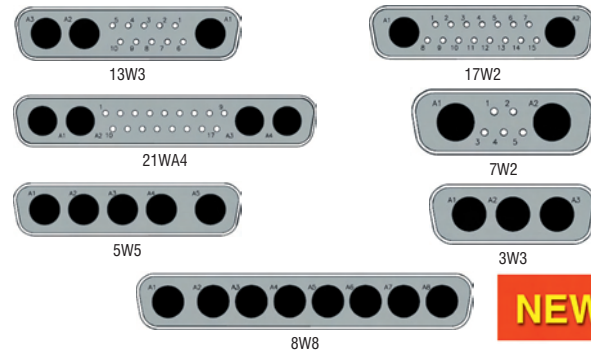
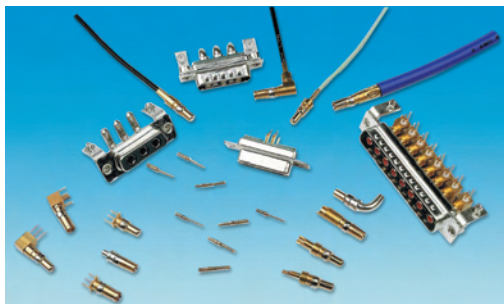
Shell	Tin plate	Dielectric voltage	1 KV rms
Insulation	Thermoplastic, UL94V-0	Contact resistance	≤7.3Ω
Contacts	Copper alloy, Tin and Gold over Nickel	Mating cycles	500min
Current rating	Signal contacts 7.5 power contacts 20A/40A		

210055

Pack Quantity=1		Price Each				
Mfrs. List No.	Order Code	1+	10+	50+	100+	+
Mixed Power D Plug, Solder						
3	308-9976▲	2.50	2.28	2.10	1.86	--
3	109-7930●	2.68	2.44	2.25	1.99	--
7	308-9988▲	9.05	8.25	7.56	6.75	--
7	109-7931●	9.68	8.83	8.09	7.22	--
13	308-9990▲	8.36	7.62	6.96	6.24	--
13	109-7932●	8.95	8.15	7.45	6.68	--
17	309-0000▲	10.67	9.69	8.88	7.95	--
17	109-7934●	11.42	10.37	9.50	8.51	--
8	309-0012▲	4.12	3.75	3.42	3.09	--
8	109-7935●	4.41	4.01	3.66	3.31	--
21	309-0024▲	12.29	11.16	10.23	9.18	--
21	109-7936●	13.15	11.94	10.95	9.82	--
Mixed Power D Socket, Solder						
3	309-0048▲	2.75	2.49	2.28	2.07	--
3	109-7937●	2.94	2.66	2.44	2.21	--
7	309-0050▲	9.92	9.03	8.28	7.38	--
7	109-7938●	10.61	9.66	8.86	7.90	--
13	309-0061▲	7.61	6.93	6.33	5.67	--
13	109-7939●	8.14	7.42	6.77	6.07	--
17	309-0073▲	12.17	11.07	10.14	9.09	--
17	109-7940●	13.02	11.84	10.85	9.73	--
8	309-0085▲	4.18	3.81	3.48	3.12	--
8	109-7941●	4.47	4.08	3.72	3.34	--
21	309-0097▲	14.04	12.75	11.70	10.47	--
21	109-7942●	15.02	13.64	12.52	11.20	--
R/A PCB Mixed Power D Plug						
21	309-0140	26.02	23.64	21.69	19.41	--
R/A PCB Mixed Power D Socket						
7	309-0152	19.59	17.82	16.32	14.64	--
13	309-0164	23.90	21.72	19.92	17.85	--
17	309-0176	24.59	22.35	20.49	18.36	--
Power Contacts						
Pin12AWG	309-0190▲	5.80	5.28	4.83	4.35	--
Pin12AWG	109-7943●	6.21	5.65	5.17	4.65	--
Socket12AWG	309-0206▲	7.24	6.57	6.03	5.40	--
Socket12AWG	109-7944●	7.75	7.03	6.45	5.78	--
Pin8AWG	309-0218▲	5.74	5.28	4.83	4.35	--
Pin8AWG	109-7946●	6.14	5.65	5.17	4.65	--
Socket8AWG	309-0220▲	5.21	4.68	4.44	3.84	--
Socket8AWG	109-7947●	5.57	5.01	4.75	4.11	--
Coax Contacts						
RG178B/U male	309-0231	25.27	22.95	21.06	18.84	--
RG178B/U female	309-0243	10.05	9.15	8.37	7.50	--

Mixed Signal D-Sub

HARTING



HARTING's mixed D-Sub range brings the advantage of an industry standard I/O interconnect product with the possibility to customise for any application. The range is designed around the standard D-Sub shell sizes with the possibility to have a blend of contacts such as signals with coaxial, power or high voltage contacts. Due to its construction, the product is fully shielded and helps reducing the EMI/RFI leakage.

The structure of the connector's identification is so that the left side digits give the total number of contacts and the right side digits the number of special contacts which can be either power, coaxial or high voltage style. Example: 13W3 stands for 13 contacts in total with 10 signal contacts and 3 special contacts.

Housing Material	Steel
Insulation	Thermoplastic resin, glassfibre filled: UL94V-0
Contact Material	Copper alloy, Gold Plated
Temperature Range	-55°C to +125°C
Current Rating:	5A (Signal Contacts); 20/30/40A (High Current Contacts); 2A (Coaxial Contacts)
Test Voltage (Coaxial Contacts)	750V
Contact Resistance	1mΩ (High Current Contacts) 2.7mΩ (Coaxial Contacts)
Mating Cycles	≥500

333362

Connector Identification	Mfrs. List No.	Order Code	1+	10+	50+
7-21 Way - solder bucket termination for signal contacts					
Plugs					
7W2	09 69 211 5072.	470-1483	8.46	7.45	6.74
7W2	09 69 211 5072	120-7582●	9.90	8.59	7.75
13W3	09 69 311 5133.	470-1501	9.23	8.14	7.35
13W3	09 69 311 5133	120-7584●	10.35	9.15	8.07
17W2	09 69 311 5172.	470-1525	11.07	9.73	8.79
17W2	09 69 311 5172	120-7586●	12.95	11.43	10.12
21WA4	09 69 411 5214.	470-1549	13.02	11.46	10.35
21WA4	09 69 411 5214	120-7588●	15.23	13.48	11.85
Sockets					
7W2	09 69 201 5072.	470-1495	9.11	8.01	7.23
7W2	09 69 201 5072	120-7583●	10.68	9.37	8.27
13W3	09 69 301 5133.	470-1513	10.09	8.89	8.04
13W3	09 69 301 5133	120-7585●	11.75	10.45	9.24
17W2	09 69 301 5172.	470-1537	13.67	12.04	10.90
17W2	09 69 301 5172	120-7587●	16.08	14.13	12.50
21WA4	09 69 401 5214.	470-1550	15.72	13.84	12.51
21WA4	09 69 401 5214	120-7589●	17.54	15.43	13.70
7-21 Way - 90° PCB mounted					
Plugs, with 40A High Current Contacts					
7W2	09 69 200 9049.	470-1409	17.12	15.07	13.61
7W2	09692009049	120-0465●	17.12	15.07	13.61
13W3	09 69 300 9018.	470-1422	22.22	19.55	17.67
13W3	09693009018	120-0467●	21.16	18.62	16.83
17W2	09 69 300 9020.	470-1446	23.10	20.34	18.39
17W2	09693009020	120-0469●	22.00	19.37	17.51
21WA4	09 69 400 9021.	470-1460	28.84	25.39	22.95
21WA4	09694009021	120-0472●	28.84	25.39	22.95
Sockets, with 40A High Current Contacts					
7W2	09 69 200 9050.	470-1410	20.44	18.00	16.28
7W2	09692009050	120-0466●	20.44	18.00	16.28
13W3	09 69 300 9019.	470-1434	26.18	23.04	20.81
13W3	09693009019	120-0468●	24.93	21.94	19.82
17W2	09 69 300 9021.	470-1458	28.02	24.67	22.32
17W2	09693009021	120-0470●	26.69	23.50	21.26
21WA4	09 69 400 9022.	470-1471	36.36	31.99	28.95
21WA4	09694009022	120-0473●	34.63	30.47	27.57
3-8 Way Housings - without signal contacts					
Plug					
3W3	09 69 210 0033.	470-1562	3.26	2.86	2.60
3W3	09 69 210 0033	120-7590●	3.81	3.35	3.03
5W5	09 69 310 0055.	470-1586	4.11	3.62	3.28
5W5	09 69 310 0055	120-7592●	4.56	4.00	3.58
8W8	09 69 410 0088.	470-1604	4.23	3.71	3.35
8W8	09 69 410 0088	120-7594●	4.88	4.33	3.81
Socket					
3W3	09 69 200 0033.	470-1574	3.42	3.00	2.73
3W3	09 69 200 0033	120-7591●	3.81	3.35	3.03
5W5	09 69 300 0055.	470-1598	3.91	3.45	3.12
5W5	09693000055	120-0474●	3.91	3.45	3.12
8W8	09 69 400 0088.	470-1616	4.23	3.71	3.35
8W8	09 69 400 0088	120-7595●	4.88	4.33	3.81

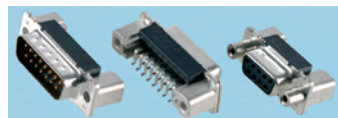
Prices are in Singapore Dollars and exclusive of GST.
Due to the volatile nature of certain products,
prices are subject to change without notice.

Connector Identification	Mfrs. List No.	Order Code	1+	Price Each 10+ 50+
High Current Contacts - solder termination				
Pin				
20A	09 69 281 7421.	470-1628	3.12	2.73 2.51
20A	09692817421	120-0475 ●	3.12	2.73 2.51
30A	09 69 281 7422.	470-1641	3.09	2.73 2.44
30A	09692817422	120-0477 ●	3.09	2.73 2.44
40A	09 69 281 7423.	470-1665	3.26	2.86 2.60
40A	09692817423	120-0479 ●	3.26	2.86 2.60
Socket				
20A	09 69 181 7421.	470-1630	3.97	3.48 3.16
20A	09691817421	120-0476 ●	3.97	3.48 3.16
30A	09 69 181 7422.	470-1653	4.00	3.52 3.19
30A	09691817422	120-0478 ●	4.00	3.52 3.19
40A	09 69 181 7423.	470-1677	3.97	3.48 3.16
40A	09691817423	120-0480 ●	3.97	3.48 3.16
Coaxial Contacts - crimp/solder termination				
Male				
RG174U, 188AU, 316U	09 69 281 7140.	470-1690	7.55	6.64 6.02
RG174U, 188AU, 316U	09692817140	120-0482 ●	7.55	6.64 6.02
RG178BU, 196AU, 404U	09 69 281 7141.	470-1719	9.02	7.94 7.16
RG178BU, 196AU, 404U	09692817141	120-0485 ●	9.02	7.94 7.16
RG179BU, 187AU	09 69 281 7230.	470-1732	10.32	9.09 8.23
RG179BU, 187AU	09692817230	120-0487 ●	9.83	8.66 7.84
Female				
RG174U, 188AU, 316U	09 69 181 7140.	470-1689	8.07	7.10 6.41
RG174U, 188AU, 316U	09691817140	120-0481 ●	8.07	7.10 6.41
RG178BU, 196AU, 404U	09 69 181 7141.	470-1707	9.02	7.94 7.16
RG178BU, 196AU, 404U	09691817141	120-0484 ●	9.02	7.94 7.16
RG179BU, 187AU	09 69 181 7230.	470-1720	9.67	8.51 7.69
RG179BU, 187AU	09691817230	120-0486 ●	9.21	8.10 7.32
Tooling				
Crimp Tool	09 99 000 0503	472-3200		1,092.75
Crimp Die for Coaxial Contacts	09 99 000 0508	472-3211		570.93
Insertion and Extraction Tool for Coaxial and Power Contacts	09 99 000 0512	472-3223		273.42

Surface Mount 'D' Connectors

Surface Mount PCB D-Sub Connectors

tyco Electronics



The next generation of D-Sub connectors for surface mount assembly from Tyco Electronics. Utilising key design features to ensure efficient and reliable processing, surface mounting of this industry standard interface connector becomes a reality for

an increasingly wide range of applications. Available in 9-15 position plug and socket variants.

- Controlled centre of gravity for secure positioning during processing
- Large mounting bracket improves grounding and mechanical stability
- Mounting options are 4-40 UNC and M3 threaded inserts or screwlocks or 3mm plain hole
- UL recognised
- RoHS compliant

NEW

Mfrs. List No.	No. of Ways	Order Code	1+	Price Each 25+ 50+ 250+
Plugs				
With 3mm Plain Hole				
0-1740195-2	9	998-0253 ●	6.31	5.66 5.05 4.78
0-1740197-2	15	998-0288 ●	7.13	6.35 5.70 5.40
With Screwlocks				
3-1740195-2	9	998-0270 ●	7.39	6.58 5.89 5.60
3-1740197-2	15	998-0300 ●	8.24	7.32 6.58 6.22
With Threaded Insert				
1-1740195-2	9	998-0261 ●	6.67	5.96 5.37 5.05
1-1740197-2	15	998-0296 ●	7.49	6.64 5.96 5.66
Sockets				
With 3mm Plain Hole				
0-1740194-2	9	998-0318 ●	6.31	5.66 5.05 4.78
0-1740196-2	15	998-0342 ●	7.13	6.35 5.70 5.40
With Screwlocks				
3-1740194-2	9	998-0334 ●	7.39	6.58 5.89 5.60
3-1740196-2	15	998-0369 ●	8.24	7.32 6.58 6.22
With Threaded Inserts				
1-1740194-2	9	998-0326 ●	6.67	5.96 5.37 5.05
1-1740196-2	15	998-0350 ●	7.49	6.64 5.96 5.66

417473

EMI/RFI Shielded 'D' Connectors

Solder Bucket (Formed Contacts)

Tin and Dimple 'D'

multicomp



- Tin & Dimple Shells
- Nickel plated solder buckets

- Gold plated formed contacts
- Glass filled P.B.T insulators

Contact rating 5A @25 °C
Contact resistance 15mΩ max

Working resistance 250V rms
Breakdown voltage V dc

209848

No. of Ways	Order Code	5 +	Price Each			
			25 +	100 +	250 +	
Plugs						
9	698-064‡	0.89	0.84	0.78	0.72	
9	109-9046●	0.89	0.84	0.78	0.72	
15	698-076‡	1.26	1.20	1.08	0.96	
15	109-9047●	1.26	1.20	1.08	0.96	
25	698-088‡	1.58	1.50	1.32	1.14	
25	109-9049●	1.58	1.50	1.32	1.14	
37	698-090‡	2.77	2.70	2.58	2.43	
37	109-9051●	2.77	2.70	2.58	2.43	
Sockets						
9	698-106‡	1.32	1.23	1.05	0.75	
9	109-9052●	1.32	1.23	1.05	0.75	
15	698-118‡	1.64	1.53	1.41	1.05	
15	109-9053●	1.64	1.53	1.41	1.05	
25	698-120‡	1.83	1.77	1.59	1.23	
25	109-9054●	1.83	1.77	1.59	1.23	
		1 +	25 +	100 +	250 +	
37	698-131‡	3.65	3.60	3.36	3.03	
37	109-9055●	3.65	3.60	3.36	3.03	

Economy 'D' Tin and Dimple (Formed Pin)

ITW McMurdo Connectors

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

210084

Contact rating 5A @70°C
Contact resistance 15mΩ max
Working voltage 500V dc/ac peak
Temperature range -55°C to +105°C
Mating cycles 100

Housing Insulator
Contacts Terminations
Steel, tin plating
White or black two piece polyester
Formed copper alloy, Gold over nickel plating
Solder bucket - tinned
PCB - gold plated

Solder Bucket

ITW McMurdo Connectors



Mfrs. List No. SDE9PTD = 150-726, SDB25PTD = 150-728, SDC37PTD = 150-729,
SDD50PTD = 150-834, SDE92ST = 150-730, SDA15ST = 150-731,
SDC37ST = 150-733, SDD50ST = 150-835, SDB25ST = 150-732,
SDA15PTS = 150-727, SD19PTD = 472-700,

210085

No. of Ways	Order Code	5+	Price Each 25+ 100+ 250+	+	+
Plugs					
Order Multiple=5					
9	150-726 ●	1.01	0.96	0.90 0.77	-- --
15	150-727 ●	1.35	1.32	1.22 1.03	-- --
19	472-700 ▲	2.02	1.89	1.76 1.63	-- --
25	150-728 ●	1.73	1.67	1.44 1.19	-- --
	1+	25+	100+	250+	+ +
37	150-729 ●	2.97	2.89	2.76 2.54	-- --
50	150-834 ‡	6.24	6.13	5.84 5.30	-- --
50	107-5189 ●	6.24	6.13	5.84 5.30	-- --
Sockets					
	5+	25+	100+	250+	+ +
9	150-730 ●	1.40	1.38	1.16 0.80	-- --
15	150-731 ▲	1.77	1.70	1.54 1.09	-- --
25	150-732 ▲	1.97	1.89	1.73 1.28	-- --
Order Multiple=1					
37	150-733 ▲	3.91	3.79	3.60 3.05	-- --
50	150-835 ▲	6.61	6.52	6.16 5.62	-- --

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

90° D-Sub Connectors
PCB Mount

multicomp



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

Contact material	Brass	Temperature range	°C-55°C105 To +
Contact plating	Gold flash over nickel	Dielectric withstand voltage	1000V
Contact resistance	15mR	Insulator material	PBT & glass fibre reinforced UL94V-0
Insulation resistance	5000MR		

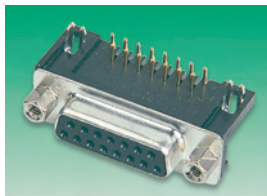
239319

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Connectors - Signal & Data

No. of Ways	Order Code	Price Each			
		5 +	50 +	100 +	500 +
Plugs					
9	410-6076‡	0.82	0.76	0.67	0.64
9	109-9289●	0.82	0.76	0.67	0.64
15	410-6088‡	0.94	0.85	0.79	0.73
15	109-9290●	0.94	0.85	0.79	0.73
25	410-6090‡	1.24	1.09	1.00	0.91
25	109-9291●	1.24	1.09	1.00	0.91
37	410-6106‡	1.71	1.56	1.41	1.32
37	109-9293●	1.71	1.56	1.41	1.32
Sockets					
9	410-6118‡	0.82	0.76	0.67	0.64
9	109-9294●	0.82	0.76	0.67	0.64
15	410-6120‡	0.94	0.85	0.79	0.73
15	109-9295●	0.94	0.85	0.79	0.73
25	410-6131‡	1.11	0.99	0.90	0.84
25	109-9296●	1.11	0.99	0.90	0.84
37	410-6143‡	1.59	1.44	1.32	1.23
37	109-9297●	1.59	1.44	1.32	1.23

90° PCB - with Screwlocks and Boardlocks

ITW McMurdo
Connectors

Mfrs. List No.	SDEX9PTD = 150-750, SDCX37PNTD = 150-753, SDBX250SNT = 150-756,	SDAX15PNTD = 150-751, SDEX9SNT = 150-754, SDCX37SNT = 150-757	SDBX25PNTD = 150-752 SDAX15SNT = 150-755
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210086

No. of Ways	Order Code	1+	25+	100+	250+	+	+
Plugs							
9	150-750▲‡	4.04	3.92	3.79	3.53	--	--
9	107-1806●	4.04	3.92	3.79	3.53	--	--
15	150-751‡	5.10	4.94	4.75	4.43	--	--
15	107-5266●	5.10	4.94	4.75	4.43	--	--
25	150-752‡	6.11	5.97	5.75	5.26	--	--
25	107-5267●	6.11	5.97	5.75	5.26	--	--
37	150-753‡	9.84	9.34	8.73	7.54	--	--
37	107-5268●	9.84	9.34	8.73	7.54	--	--
Sockets							
9	150-754▲‡	4.34	4.17	4.04	3.85	--	--
9	107-5161●	4.34	4.17	4.04	3.85	--	--
15	150-755‡	5.67	5.39	5.20	4.82	--	--
15	107-5269●	5.67	5.39	5.20	4.82	--	--
25	150-756‡	7.64	7.29	6.87	6.07	--	--
25	107-5270●	7.64	7.29	6.87	6.07	--	--
37	150-757‡	12.12	11.52	10.98	10.37	--	--
37	107-5271●	12.12	11.52	10.98	10.37	--	--

90° PCB -

Available with or without Screwlocks

ITW McMurdo
Connectors

With threaded rivets

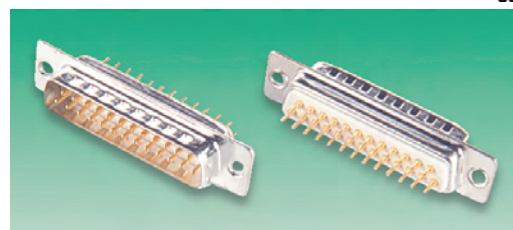
With screwlocks

Mfrs. List No.	SDE9PNTD = 150-734, SDC37PNTD = 150-737, SDB250SNT = 150-740, SDAS15PNTD = 150-743, SDES9SNT = 150-746, SDCX37SNT = 150-749	SDA15PNTD = 150-735, SDE9SNT = 150-738, SDC37SNT = 150-741, SDAS15SNT = 150-744, SDCX37SNT = 150-747	SDB25PNTD = 150-736 SDA15SNT = 150-739 SDES9PNTD = 150-742 SDCS37PNTD = 150-745 SDBS25SNT = 150-748
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210087

No. of Ways	Order Code	Price Each					
		1 +	25 +	100 +	250 +	+	+
Without Screwlocks							
Plugs							
9	150-734‡	3.54	3.40	3.11	2.63	--	--
9	107-5252●	3.54	3.40	3.11	2.63	--	--
15	150-735‡	4.68	4.46	4.11	3.50	--	--
15	107-5253●	4.68	4.46	4.11	3.50	--	--
25	150-736‡	5.71	5.49	4.94	4.08	--	--
25	107-5254●	5.71	5.49	4.94	4.08	--	--
37	150-737‡	8.14	7.90	7.45	6.16	--	--
37	107-5255●	8.14	7.90	7.45	6.16	--	--
Sockets							
9	150-738‡	3.94	3.79	3.50	2.60	--	--
9	107-5256●	3.94	3.79	3.50	2.60	--	--
15	150-739‡	5.01	4.82	4.37	3.56	--	--
15	107-5257●	5.01	4.82	4.37	3.56	--	--
25	150-740‡	6.37	6.16	5.61	4.58	--	--
25	107-5258●	6.37	6.16	5.61	4.58	--	--
37	150-741‡	10.99	10.44	9.40	7.85	--	--
37	107-5259●	10.99	10.44	9.40	7.85	--	--
With Screwlocks							
Plugs							
9	150-742‡	3.81	3.66	3.31	2.86	--	--
9	107-5260●	3.81	3.66	3.31	2.86	--	--
15	150-743‡	5.01	4.82	4.37	3.56	--	--
15	107-5261●	5.01	4.82	4.37	3.56	--	--
25	150-744‡	5.91	5.68	5.17	4.24	--	--
25	107-5262●	5.91	5.68	5.17	4.24	--	--
37	150-745‡	8.52	8.28	7.77	6.45	--	--
37	107-5264●	8.52	8.28	7.77	6.45	--	--
Sockets							
9	150-746▲	4.24	4.08	3.69	2.82	--	--
15	150-747‡	5.28	5.04	4.62	3.79	--	--
15	107-5265●	5.28	5.04	4.62	3.79	--	--
25	150-748▲‡	6.68	6.39	5.84	4.82	--	--
25	107-5157●	6.68	6.39	5.84	4.82	--	--
37	150-749▲‡	11.59	10.95	9.89	8.28	--	--
37	107-5158●	11.59	10.95	9.89	8.28	--	--

Straight PCB (Turned Pin)

ITW McMurdo
Connectors

Mfrs. List No.	SDE90LTD = 150-781, SDC37POLTD = 150-784, SDB250LT = 150-787,	SDA15POLTD = 150-782, SDE9SOLT = 150-785, SDC37SOLT = 150-788,	SDB25POLTD = 150-783 SDA15SOLT = 150-786
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210088

No. of Ways	Order Code	Price Each					
		1+	25+	100+	250+	+	+
Plugs							
9	150-781‡	2.07	1.93	1.70	1.35	--	--
9	107-5272●	2.07	1.93	1.70	1.35	--	--
15	150-782‡	2.68	2.54	2.12	1.73	--	--
15	107-5273●	2.68	2.54	2.12	1.73	--	--
25	150-783‡	3.94	3.69	3.21	2.60	--	--
25	107-5274●	3.94	3.69	3.21	2.60	--	--
37	150-784‡	6.17	5.81	4.94	4.21	--	--
37	107-5276●	6.17	5.81	4.94	4.21	--	--

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	Order Code	1+	25+	Price Each	100+	250+	+	+
Sockets								
9	150-785‡	2.20	2.02	1.77	1.48	--	--	--
9	107-5277●	2.20	2.02	1.77	1.48	--	--	--
15	150-786‡	3.17	2.95	2.57	2.21	--	--	--
15	107-5278●	3.17	2.95	2.57	2.21	--	--	--
25	150-787‡	4.49	4.11	3.66	3.03	--	--	--
25	107-5279●	4.49	4.11	3.66	3.03	--	--	--
37	150-788‡	7.42	7.03	6.00	5.01	--	--	--
37	107-5280●	7.42	7.03	6.00	5.01	--	--	--

HDP-20 Solder Cup



- Preloaded, duplex plated solder cup contacts
- Full EMI shielding
- Tin plated shell finish
- Plug has grounding indents

209980

No. of Mfrs. Ways List No.	Order Code	1+	100+	Price Each	250+	500+	+	+
Plugs								
9 747904-2	135-4899▲‡	4.68	4.53	4.32	3.90	--	--	--
9 5-747904-2	113-8240●	5.47	5.37	5.21	4.88	--	--	--
15 747908-2	135-4930▲‡	5.77	5.52	5.25	4.80	--	--	--
15 5-0747908-2	113-4839●	6.90	6.71	6.48	6.18	--	--	--
25 747912-2	135-4966▲‡	6.83	6.51	6.18	5.73	--	--	--
25 5-0747912-2	113-4842●	8.59	8.14	7.78	7.58	--	--	--
37 747916-2	135-5004▲‡	10.86	10.41	9.93	9.12	--	--	--
37 5-747916-2	113-8241●	12.76	12.37	11.98	11.43	--	--	--
Sockets								
9 747905-2	135-4905▲‡	4.92	4.69	4.43	4.23	--	--	--
9 5-0747905-2	113-4837●	5.44	5.24	5.05	4.78	--	--	--
15 747909-2	135-4942▲‡	8.02	7.68	7.38	6.75	--	--	--
15 5-0747909-2	113-4841●	9.99	9.60	9.21	8.85	--	--	--
25 747913-2	135-4978▲‡	7.49	7.17	6.90	6.24	--	--	--
25 5-0747913-2	113-4843●	9.50	9.02	8.66	8.37	--	--	--
37 747917-2	135-5016▲	11.72	--	--	--	--	--	--

AMPLIMITE '2000'

90° PCB - with boardlock and threaded inserts (4-40)



- An economy subminiature 'D' connector
- Circuit board footprint 0.318 [8.08]
- Front metal shell design, compatible with full metal shell connectors
- Flame retardant housing **UL94V-0**
- **UL** Recognised and **CSA** Approved

209937

No. of Mfrs. Ways List No.	Order Code	1+	25+	Price Each	100+	250+
Plugs						
9 788754-1.	335-6024‡	2.28	2.04	1.92	1.80	
9 788754-1	105-6111	2.28	2.07	1.53	1.18	
Sockets						
9 788750-1.	335-6036‡	2.31	2.07	1.98	1.68	
9 1734348-1	122-8088●	1.92	1.72	1.27	0.98	
15 788757-1	105-6113	3.38	3.02	2.24	1.72	
25 788752-1.	335-6220‡	3.15	2.91	2.76	2.61	
25 788752-1	105-6114	3.15	2.89	2.14	1.64	

D-Sub PCB Connectors

Straight and 90° - Formed Pin



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

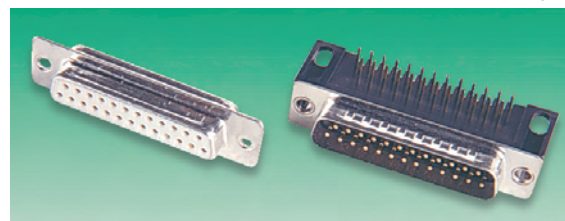
- **UL** Recognised
- Class II performance - DIN 41652
- 4-40 UNC threaded insert flange and grounding boardlocks for improved continuity and mechanical strength
- Tinned and dimpled shells for excellent EMI shielding

Current rating	6.5A Max	Current rating	6.5A Max
Contact material	Copper Alloy	Contact material	Copper Alloy
Contact plating	Gold	Contact plating	Gold
Temp range	-55°C to +125°C	Contact resistance	≤10mΩ
Ins material	PBTP	Insulation resistance	≥10 ¹⁰ Ω
Shell material	Tinned Steel	Mating cycles	≥200
Mfrs. List No.	0965 161 6712 = 413-1411		0965 162 6812 = 413-1496
	0965 161 6712 = 109-7056		0965 162 6812 = 109-7063
	0965 261 6712 = 413-1423		0965 262 6812 = 413-1502
	0965 261 6712 = 109-7057		0965 262 6812 = 109-7065
	0965 361 6712 = 413-1435		0965 362 6812 = 413-1514
	0965 361 6712 = 109-7058		0965 362 6812 = 109-7066
	0965 461 6712 = 413-1447		0965 462 6812 = 413-1526
	0965 461 6712 = 109-7059		0965 462 6812 = 109-7067
	0966 151 6512 = 413-1459		0966 152 6612 = 413-1538
	0966 151 6512 = 109-7060		0966 152 6612 = 109-7068
	0966 251 6512 = 413-1460		0966 252 6612 = 413-1540
	0966 251 6512 = 110-6813		0966 252 6612 = 109-7069
	0966 351 6512 = 413-1472		0966 352 6612 = 413-1551
	0966 351 6512 = 109-7061		0966 352 6612 = 109-7070
	0966 451 6512 = 413-1484		0966 452 6612 = 413-1563
	0966 451 6512 = 109-7062		0966 452 6612 = 109-7071

238807

No of Ways	Order Code	1+	10+	Price Each	50+	100+	+
Straight Plugs							
9	413-1411‡	3.11	2.79	2.63	2.34	--	--
9	109-7056●	3.11	2.79	2.63	2.34	--	--
15	413-1423‡	4.04	3.64	3.43	3.03	--	--
15	109-7057●	4.04	3.64	3.43	3.03	--	--
25	413-1435‡	4.82	4.33	4.11	3.60	--	--
25	109-7058●	4.82	4.33	4.11	3.60	--	--
37	413-1447‡	8.15	7.35	6.93	6.10	--	--
37	109-7059●	8.15	7.35	6.93	6.10	--	--
Straight Sockets							
9	413-1459‡	3.85	3.47	3.27	2.89	--	--
9	109-7060●	3.85	3.47	3.27	2.89	--	--
15	413-1460	4.82	4.33	4.11	3.60	--	--
15	110-6813●	4.82	4.33	4.11	3.60	--	--
25	413-1472‡	6.32	5.68	5.33	4.75	--	--
25	109-7061●	6.32	5.68	5.33	4.75	--	--
37	413-1484‡	11.67	10.52	9.91	8.77	--	--
37	109-7062●	11.67	10.52	9.91	8.77	--	--
90° Plugs							
9	413-1496‡	3.98	3.57	3.37	2.96	--	--
9	109-7063●	3.98	3.57	3.37	2.96	--	--
15	413-1502‡	4.82	4.33	4.11	3.60	--	--
15	109-7065●	4.82	4.33	4.11	3.60	--	--
25	413-1514‡	6.32	5.68	5.33	4.75	--	--
25	109-7066●	6.32	5.68	5.33	4.75	--	--
37	413-1526‡	10.89	9.81	9.27	8.16	--	--
37	109-7067●	10.89	9.81	9.27	8.16	--	--
90° Sockets							
9	413-1538‡	4.82	4.33	4.11	3.60	--	--
9	109-7068●	4.82	4.33	4.11	3.60	--	--
15	413-1540‡	6.68	6.00	5.68	5.01	--	--
15	109-7069●	6.68	6.00	5.68	5.01	--	--
25	413-1551‡	8.54	7.67	7.25	6.42	--	--
25	109-7070●	8.54	7.67	7.25	6.42	--	--
37	413-1563‡	14.09	12.68	11.94	10.59	--	--
37	109-7071●	14.09	12.68	11.94	10.59	--	--

Solda 'D' Tin and Dimple (Formed Pin)



- A range of tin and dimple 'D' connectors
- Excellent EMI/RFI screening via shell continuity dimples
- Connectors are available in solder bucket and right angle PCB options
- The pins and sockets are formed contact style.

Contact rating	3A @ 60°C
Contact resistance	20mΩ max
Working voltage	350V dc/ac peak
Temperature range	-55°C to +125°C
Mating cycles	100
Housing	Steel, tin plating
Insulator	Monoblock polyester UL94V-0
Contacts	Formed copper alloy, gold plating

Mfrs. List No.	Prefix	Contact	Suffix Termination Style
No of Ways			Solder Bucket 90°PCB
9	ADE9	P	Plugs K87
15	ADA15	or	Plugs 1A2NK87
25	ADB25	S	Sockets A197
37	ADC37		Sockets 1A2NA197
Contact P = Plug, S = Socket			
ie ADB25P1A2NK87 = 105-614			

210090

No. of Ways	Order Code	1+	10+	50+	100+	+	+
Solder Bucket Plugs							
9	105-505	1.38	1.27	1.15	1.04	--	--
15	105-506	1.80	1.66	1.49	1.35	--	--
25	105-507	2.40	2.21	1.99	1.80	--	--
37	105-508	3.66	3.37	3.04	2.75	--	--
Solder Bucket Sockets							
9	105-509	1.72	1.60	1.44	1.31	--	--
15	105-510	2.52	2.32	2.09	1.89	--	--
25	105-511	3.46	3.20	2.89	2.61	--	--
37	105-512	4.86	4.47	4.03	3.65	--	--
90° PCB Plugs							
9	105-612	3.34	3.27	3.08	2.73	--	--
15	105-613	4.65	4.31	3.88	3.51	--	--
25	105-614	6.36	5.85	5.28	4.77	--	--
37	105-615	9.00	8.28	7.47	6.75	--	--
90° PCB Sockets							
9	105-616	3.78	3.48	3.14	2.84	--	--
15	105-617	5.94	5.46	4.93	4.46	--	--
25	105-618	7.74	7.12	6.42	5.81	--	--

Solder Bucket - with Shielding Lugs



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

Contact rating	5A @ 20°C
Contact resistance	10mΩ max
Working voltage	350V dc/ac peak
Temperature range	-55°C to +105°C
Mating cycles	100
Housing	Steel, tin plating
Insulator	Green thermoplastic UL94V-0
Contacts	Formed copper alloy, gold over nickel plating
Terminations	Tinned

Mfrs. List No.	DE09P064HTX = 428-814, SDCK37PNTD = 428-840, DB25S064HT = 428-875,	DA15P064HTX = 428-826, DE09S064HT = 428-851, DC37S064HT = 428-887	DB25P064HTX = 428-838, DA15S064HT = 428-863
Mfrs. List No.	= 110-3968DB25P064HTXLF 110-3968 = DB25P064HTXLF 110-3968 = DB25P064HTXLF = 110-3973DA15S064HTLF 110-3973 = DA15S064HTLF = 110-3975DC37S064HTLF 110-3975 = DC37S064HTLF		

209783

No. of Ways	Order Code	1+	10+	25+	100+	+	+
Plugs							
9	428-814▲	4.56	4.17	3.90	3.45	--	--
9	110-3966●	4.88	4.46	4.17	3.69	--	--
15	428-826▲	4.93	4.47	4.20	3.72	--	--
15	110-3967●	5.28	4.78	4.49	3.98	--	--
25	428-838▲	5.83	5.22	5.01	4.38	--	--
25	110-3968●	6.24	5.59	5.36	4.69	--	--
37	428-840▲	8.05	7.23	6.87	6.03	--	--
37	110-3971●	8.61	7.74	7.35	6.45	--	--
Sockets							
9	428-851▲	4.64	4.20	3.93	3.48	--	--
9	110-3972●	4.96	4.49	4.21	3.72	--	--
15	428-863▲	5.93	5.31	5.10	4.50	--	--
15	110-3973●	6.35	5.68	5.46	4.82	--	--
25	428-875▲	8.61	7.77	7.32	6.45	--	--
25	110-3974●	9.21	8.31	7.83	6.90	--	--
37	428-887▲	11.89	10.68	10.11	8.88	--	--
37	110-3975●	12.72	11.43	10.82	9.50	--	--

Delta 'D' - with Boardlocks



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

Contact rating	5A max	Housing	Steel, bright tin plated
Working voltage	350V dc/ac peak	Insulator	Glass filled thermoplastic UL94V-0
Contact resistance	≥10mΩ max	Contacts	Phosphor bronze, gold flash over nickel
Temperature range	-55°C to +125°C		
Mating cycles	300	Termination	Bright tin - lead over nickel

D09P24A4GV00=151-520	D15P24A4GV00=151-531	D25P24A4GV00=151-543
D09P24 A4GV00LF=110-3907	D15P24 A4GV00LF=110-3909	D25P24 A4GV00LF=110-3911
D37P24A4GV00=151-555	D09S24A4GV00=151-567	D15S24A4GV00=151-579
D25S24A4GV00=151-580	D37S24A4GV00=151-609	D37P24 A4GV00LF=110-3912
D09S24 A4GV00LF=110-3913	D15S24 A4GV00LF=110-3914	D25S24 A4GV00LF=110-3915
D37S24 A4GV00LF=110-3916		

209996

No. of Ways	Order Code	1+	10+	25+	100+	+	+
Plugs							
9	151-520▲	7.80	6.96	6.57	5.79	--	--
9	110-3907●	8.35	7.45	7.03	6.20	--	--
15	151-531▲	9.02	8.04	7.62	6.72	--	--
15	110-3909●	9.65	8.60	8.15	7.19	--	--
25	151-543▲	9.57	8.58	8.07	7.14	--	--
25	110-3911●	10.24	9.18	8.63	7.64	--	--
37	151-555▲	15.55	13.92	13.14	11.58	--	--
37	110-3912●	16.64	14.89	14.06	12.39	--	--
Sockets							
9	151-567▲	7.68	6.81	6.42	5.67	--	--
9	110-3913●	8.22	7.29	6.87	6.07	--	--
15	151-579▲	8.80	7.92	7.47	6.57	--	--
15	110-3914●	9.42	8.47	7.99	7.03	--	--
25	151-580▲	10.60	9.51	9.00	7.92	--	--
25	110-3915●	11.34	10.18	9.63	8.47	--	--
37	151-609▲	15.56	13.92	13.14	11.58	--	--
37	110-3916●	16.65	14.89	14.06	12.39	--	--

Turned Pin Solder Bucket



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

Contact rating	6.5A @ 60°C	Housing	Steel, tin plating
Contact resistance	10mΩ max	Insulator	Black, two piece polyester UL94V-0
Working voltage	500V dc/ac peak	Contacts	Turned Copper alloy, Gold over Nickel plating
Insulation resistance	100MΩ	Terminations	Tinned
Temperature range	-55°C to +105°C		
Mating cycles	300		

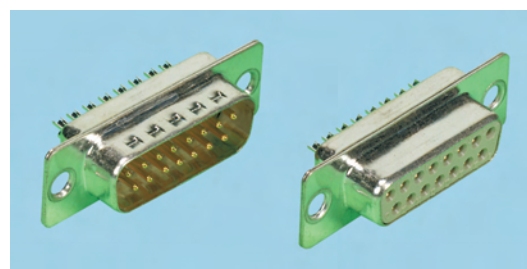
Mfrs. List No.	DE9PBDT = 472-748, DA15PBDT = 472-750, DB25PBDT = 472-761, DC37PBDT = 472-773, DE9SBDT = 472-785, DA15SBDT = 472-797, DB25SBDT = 472-803,
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209787

5 Per Pack

No. of Ways	Order Code	1+	5+	20+	50+	+	+
Plugs							
9	472-748‡	11.75	10.59	9.41	8.51	--	--
9	107-5335●	11.75	10.59	9.41	8.51	--	--
15	472-750‡	17.59	15.83	14.06	12.74	--	--
15	107-5336●	17.59	15.83	14.06	12.74	--	--
25	472-761‡	25.57	23.02	20.42	18.49	--	--
25	107-5337●	25.57	23.02	20.42	18.49	--	--
37	472-773‡	38.06	34.25	30.50	27.51	--	--
37	107-5338●	38.06	34.25	30.50	27.51	--	--
Sockets							
9	472-785‡	16.66	14.99	13.32	11.97	--	--
9	107-5339●	16.66	14.99	13.32	11.97	--	--
15	472-797‡	24.54	22.08	19.65	17.66	--	--
15	107-5340●	24.54	22.08	19.65	17.66	--	--
25	472-803‡	38.06	34.25	30.43	27.54	--	--
25	107-5341●	38.06	34.25	30.43	27.54	--	--
37	472-815‡	42.26	38.04	33.87	30.53	--	--
37	107-5343●	42.26	38.04	33.87	30.53	--	--

Turned Pin 'D' Tin and Dimple



Contact rating	5A @ 60°C	Housing	Steel, tin plating
Contact resistance	10mΩ max	Insulator	Black, two piece thermoplastic, UL94V-0
Temperature range	-55°C to +125°C	Contacts	Turned Copper alloy, Gold plating
Working voltage	125V dc/ac peak	Terminations	Tinned
Mating cycles	50		

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

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

210091

No. of Ways	Order Code	1+	10+	50+	100+	+	+
Solder Bucket Plugs							
9	150-181†	9.81	8.51	7.13	5.39	--	--
9	109-6848●	9.81	8.51	7.13	5.39	--	--
15	150-182†	11.56	9.95	8.31	6.42	--	--
15	109-6851●	11.56	9.95	8.31	6.42	--	--
25	150-183†	15.42	13.35	11.17	8.57	--	--
25	109-6852●	15.42	13.35	11.17	8.57	--	--
37	150-184†	20.39	17.62	14.80	11.33	--	--
37	109-6853●	20.39	17.62	14.80	11.33	--	--
Solder Bucket Sockets							
9	150-185†	9.08	7.80	6.55	4.98	--	--
9	109-6854●	9.08	7.80	6.55	4.98	--	--
15	150-186†	10.61	9.12	7.64	5.84	--	--
15	109-6855●	10.61	9.12	7.64	5.84	--	--
25	150-187†	14.89	12.87	10.75	8.25	--	--
25	109-6856●	14.89	12.87	10.75	8.25	--	--
37	150-188†	21.34	18.46	15.47	11.84	--	--
37	109-6857●	21.34	18.46	15.47	11.84	--	--

HDP-20 Crimp Snap-in contacts



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

Contact rating	7.5A	Housing	Steel, tin plating
Contact resistance	15mΩ max	Insulator	Black, thermoplastic
Dielectric withstand voltage	1KV ac min	Contacts: Pin	Phosphor Bronze, selective Gold plating
Temperature range	-55°C to +105°C	Socket	

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

No. of Ways	Mfrs. List No.	Order Code	1+	100+	250+	500+	+
Pin Housing							
9	205204-4	134-5138●	2.46	2.37	2.28	2.07	--
15	205206-3	134-5151●	2.62	2.49	2.40	2.16	--
25	207464-2	134-5175●	2.70	2.57	2.44	2.31	--
37	205210-3	134-5199●	4.40	4.20	4.05	3.69	--
Socket Housing							
9	205203-3	134-5230●	2.58	2.46	2.37	2.13	--
15	205205-2	134-5254●	2.32	2.25	2.13	1.92	--
25	207463-1	134-5278●	2.19	2.08	1.98	1.88	--
37	205209-2	134-5291†	3.28	3.15	3.03	2.76	--
37	205209-2	105-5990●	5.15	4.61	3.49	2.62	--

209978

Wire Size	Order Code	10+	50+	100+	250+	+	+
Crimp Pins							
28-24 AWG, 0.08-0.2mm ² (Sel. Gold)	593-205●	0.47	0.38	0.34	0.28	--	--
28-24 AWG, 0.08-0.2mm ² (Gold Flash)	177-6435●	0.16	0.16	0.13	0.09	--	--
24-20 AWG, 0.2-0.52mm ² (Sel. Gold)	593-217●	0.47	0.38	0.34	0.28	--	--
24-20 AWG, 0.2-0.52mm ² (Gold Flash)	593-242●	0.41	0.34	0.28	0.25	--	--
Crimp Sockets							
28-24 AWG, 0.08-0.2mm ² (Sel. Gold)	593-229●	0.59	0.53	0.34	0.28	--	--
28-24 AWG, 0.08-0.2mm ² (Gold Flash)	177-6447●	0.16	0.16	0.16	0.13	--	--
24-20 AWG, 0.2-0.52mm ² (Sel. Gold)	593-230●	0.38	0.34	0.31	0.25	--	--
24-20 AWG, 0.2-0.52mm ² (Gold Flash)	593-254●	0.41	0.34	0.28	0.25	--	--

209978

Tooling for HDP-20 Crimp 'D'

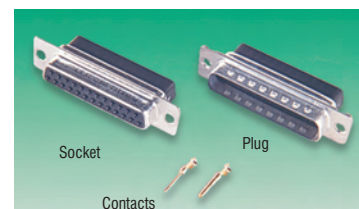


Mfrs. List No. 58448-2 = 134-5497, 91067-2 = 593-266, 91285-1 = 180-9570

209977

	Order Code	Price Each
Pro-Crimper	134-5497	409.20
Insertion/Extraction tool (24-20 AWG)	593-266	16.29
Insertion/Extraction tool (26-24 AWG)	180-9570	42.99

Crimp 'D' Tin and Dimple (Formed Pin)



- A range of crimp connectors with rear insert contacts
- The connectors have tinned shells, plugs dimpled for improved electrical continuity.
- The connector and contacts are ordered separately
- Suitable for applications where partial loading is required.

Contact rating	4A @ 70°C	Housing	Steel, tin plating
Contact resistance	10mΩ max	Insulator	Black, two piece thermoplastic
Temperature range	-55°C to +85°C	Contacts	
Working voltage	500V dc/ac peak		
Mating cycles	100		

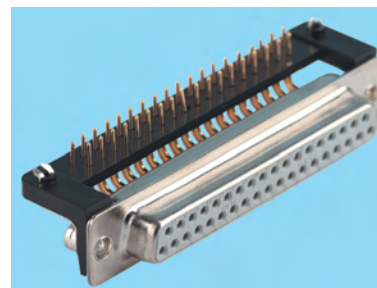
Suitable wire sizes:
 24/28 AWG, 0.08-0.22mm² 7/0.2 or 10/0.1
 20/24 AWG, 0.20-0.52mm² 7/0.2 or 16/0.2

Mfrs. List Nos:	DEC9PTD = 151-241, DAC15PTD = 151-242, DBC25PTD = 151-243
	DCC37PTD = 151-244, DEC9ST = 151-245, DAC15ST = 151-246
	DBC25ST = 151-247, DCC37ST = 151-248, 151236. = 151-236
	151237. = 151-237, 151238. = 151-238, 151239. = 151-239

210092

No. of Ways	Order Code	1+	50+	100+	+	250+
Plug Housings						
9	151-241●	2.87	2.66	2.47	2.12	--
15	151-242●	3.07	2.82	2.66	2.25	--
25	151-243●	3.10	2.82	2.54	2.21	--
37	151-244●	3.97	3.56	3.24	2.76	--
Socket Housings						
9	151-245●	2.84	2.63	2.44	2.12	--
15	151-246●	3.04	2.76	2.57	2.21	--
25	151-247●	3.10	2.86	2.57	2.25	--
37	151-248●	3.94	3.63	3.31	2.82	--
Crimp Contacts (50 Per Pack)						
24/28 AWG pin	151-236	12.65	11.11	9.50	8.35	--
20/24 AWG pin	151-237	12.65	11.11	9.50	8.35	--
24/28 AWG socket	151-238	12.65	11.11	9.50	8.35	--
20/24 AWG socket	151-239	12.65	11.11	9.50	8.35	--

Harsh Environment



- Special plated shell guarantees electrical grounding up to 25 years

Mating cycles	500	Current rating	5A
Contacts	Copper alloy	Working voltage	750Vac peak
Insulator	GF polyester	Proof voltage	2.5KV ac peak
Shell	Steel - Zinc plated - bright tin finish	Temperature range	-55°C to +125°C

12

Connectors - Signal & Data

Compliant
 Non-compliant
 Limited stock - RoHS replacement available

RoHS

Mfrs. List No. Solder bucket connectors
Dx-yzTIO
Straight solder PCB connectors
Dx-yzPBL2TIO
90° PCB connectors
x-yz1ASNTI
Where x = style letter, y = no of ways, z = P for plugs, S for socket

210057

No. of Ways	Order Code	1+	5+	20+	50+
Sockets					
9	307-7433	6.85	5.78	5.20	4.75
9	111-4100	6.85	5.78	5.20	4.75
Straight PCB Plugs					
25	307-7500	15.69	13.29	11.94	10.85
Sockets					
9	307-7536	12.02	10.14	9.15	8.31
9	111-4101	12.02	10.14	9.15	8.31
50	307-7573	37.59	31.52	28.38	25.81
90° PCB Plugs					
9	307-7585	9.65	8.15	7.35	6.68
25	307-7603	17.53	14.83	13.35	12.17
25	111-4102	17.53	14.83	13.35	12.17
90° PCB Sockets					
9	307-7627	11.59	9.79	8.83	8.02
9	111-4103	11.59	9.79	8.83	8.02
15	307-7639	15.86	13.42	12.07	10.98
15	111-4105	15.86	13.42	12.07	10.98

Wire Wrap/Crimp/PCB/Solder Inserts

CEEP



- Crimps suitable for 20, 22 and 24 AWG cable
- Wire wrap, solder bucket and straight PCB contacts available
- Mechanical endurance of 500 operations

Shell Mild steel, Zinc/Nickel plated
Moulding Thermoplastic **UL94V-0**
Contacts Turned copper alloy, hard acid gold on nickel

Voltage 250Vac
Contact resistance <5mΩ
Working current 5A

Housings: DNDxyX

Where xx= No of ways Y=P for male S for female

Mfrs. List No. PW3100 = 370-9363, SWS100 = 307-9375, PX100 = 307-9387,
SX100 = 307-9399, PY100 = 307-9405, SY100 = 307-9417,
PZ100 = 307-9429, SZ100 = 307-9430, HOHT-1440 = 307-9442,
701 = 307-9454, 702-3 = 307-9466, CS202 = 307-9478

210056

No. of Ways	Order Code	1+	10+	25+	50+	+	+
Male Housing							
9	307-9260	2.20	2.02	2.01	--	--	--
15	307-9272	2.30	2.12	1.99	1.48	--	--
25	307-9284	2.47	2.28	2.18	1.60	--	--
37	307-9296	2.77	2.54	2.44	1.80	--	--
50	307-9302	4.57	4.21	4.01	3.79	--	--
Female Housing							
9	307-9314	2.20	2.02	1.93	1.44	--	--
15	307-9326	2.30	2.12	1.99	1.48	--	--
25	307-9338	2.47	2.28	2.18	1.60	--	--
37	307-9340	2.77	2.54	2.44	1.80	--	--
50	307-9351	4.57	4.21	4.01	2.99	--	--
100 Per Pack							
		1+	10+	25+			
Wire Wrap Contacts							
Male	307-9363	42.66	34.12	28.44			
Female	307-9375	85.40	68.31	56.91			
Crimp Contacts							
Male	307-9387	22.97	18.36	15.28			
Female	307-9399	37.32	29.85	24.88			
Straight PCB Contacts							
Male	307-9405	37.32	29.85	24.88			
Female	307-9417	38.56	30.85	25.71			
Solder Bucket Contacts							
Male	307-9429	23.70	18.97	15.79			
Female	307-9430	29.81	23.85	19.87			
Tooling							
		1+					
Crimp Tool	307-9442		304.34				
Insertion Tool	307-9454		17.07				
Extraction Tool	307-9466		14.09				
Replacement tip for 702-3	307-9478		3.44				

Connector Savers

Connector Savers

Male - Female



- A range of adapters with a male connector one side and a female on the other
- Ideal for laptops where connectors are constantly plugged and unplugged
- Once connected the wear on the equipment connector is eliminated
- Supplied with screwlocks

Videk

220907

	Order Code	1+	10+	50+
Standard 'D' Types				
9 Way	325-2152	3.84	3.24	2.66
15 Way	325-2164	4.30	3.60	3.02
25 Way	467-637	22.10	18.59	15.34
High Density				
15 Way (SVGA)	325-2176	4.44	3.72	3.11

Gender Changers

Miniature Gender Changers

9, 15, 15HD, 25, 37, Centronics

Videk

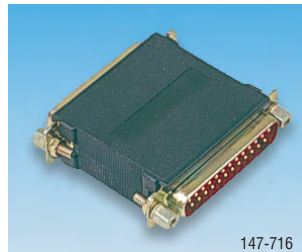


- A range of miniature low cost gender changers featuring pin to pin wiring and housed in a compact metal enclosure, which provides RF/EMI shielding
- Gender changers are available in 9, 15, 25, 37 way and Centronics versions and are supplied with screw locks.

221631

No. of Ways	Order Code	1+	10+	50+
Standard D Types				
9 male-male	467-571	14.73	13.10	10.66
9 female - female	467-583	14.73	13.10	10.66
15 male - male	467-595	22.31	18.75	15.47
15 female - female	467-601	22.31	18.75	15.47
25 male - male	467-613	14.73	13.10	10.66
25 female - female	467-625	14.73	13.10	10.66
37 male - male	118-3332	20.03	17.53	14.06
37 female - female	118-3334	20.03	17.53	14.06
High Density				
15 (SVGA) male - male	118-3337	16.02	14.06	11.75
15 (SVGA) female - female	118-3338	16.02	14.06	11.75
Centronics				
36 male - male	118-3335	19.36	16.85	13.29
36 female - female	118-3336	19.36	16.85	13.29

25 Pole 'D' Gender Changer



147-716

- 25 pole 'D' sub-miniature adaptors for RS232C interface connections
- Available in two types, male/male and female/female enabling a change from either male to female or female to male
- The kit includes two pairs of female screw-lock assemblies for cable to cable connection
- If direct connection to equipment on one side is required then a pair of male screwlocks should be ordered separately

- Additional facilities are provided for lines 2 and 3 and 4 and 5 to be crossed over if required
- As supplied lines 1 to 25 are wired straight through.

Minimum voltage breakdown between contacts 2100V dc
Maximum working voltage 500V dc
Maximum operating temperature 85°C

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

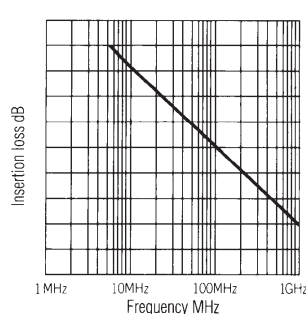
Maximum current rating 1A @ 25°C
 Contact resistance 5mΩ max
 Plug contacts Brass, plated hard acid gold over nickel
 Socket contacts Hard acid gold over nickel

Mfrs. List No. MD20419-CT = 105-023

NET9/221635

		1+	25+	100+	250+	+	+
Male screw lock (pack of 2)	120-6634	2.34	1.89	1.82	1.76	--	--

Filtered 'D'



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

Contact rating	5A @60°C	Housing	Steel, Tin plating
Contact resistance	5mΩmax	Insulator	Grey ployester UL94V-0
Insulation resistance	5000MΩmin	Rear encapsulation	Blue epoxy resin
Working voltage	200V dc/ac peak	Contacts	Turned Copper alloy
Capacitance	1nF @ 1KHz 0.1 rms		Gold over Nickel
Temperature range	-55°C to +85°C	Earthing strap (90°PCB)	Steel, Tin plating
Mating cycles	100	Riv-nut (90°PCB)	4-40 NC Thread

209778

Filtered Solder Bucket 'D'



Mfrs. List No. FDE-9PT12/1 = 428-966, FDA15PT12/1 = 428-978,
 FDB-25PT12/1 = 428-980, FDE-9ST2/1 = 429-004,
 FDA-15ST2/1 = 429-016, FDB-25ST2/1 = 429-028,
 FDC-37ST2/1 = 429-030

209781

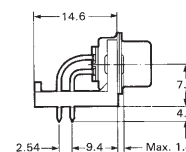
No. of Ways	Order Code	1+	10+	25+	50+	+	+
Plugs							
9	428-966	16.30	15.54	15.47	14.22	--	--
9	111-4110	16.30	15.54	15.47	14.22	--	--
15	428-978	22.03	20.80	19.77	17.56	--	--
15	111-4111	22.03	20.80	19.77	17.56	--	--
25	428-980	35.50	33.88	33.68	31.03	--	--
25	111-4112	35.50	33.88	33.68	31.03	--	--
Sockets							
9	429-004	17.66	16.85	16.76	15.47	--	--
9	111-4113	17.66	16.85	16.76	15.47	--	--
15	429-016	24.64	23.63	23.40	21.54	--	--
15	111-4114	24.64	23.63	23.40	21.54	--	--
25	429-028	43.46	41.06	39.00	36.79	--	--
25	111-4115	43.46	41.06	39.00	36.79	--	--
37	429-030	50.17	47.67	45.23	42.69	--	--
37	111-4117	50.17	47.67	45.23	42.69	--	--



- 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

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

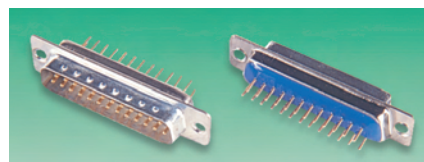


Mfrs. List No. FDEB-9P1AENT12/1 = 429-120, FDAB-15P1AENT12/1 = 429-132,
 FDBB-25P1AENT12/1 = 429-144, FDCB-37P1AENT12/1 = 429-156,
 FDEB-9S1AENT12/1 = 429-120, FDAB-15S1AENT12/1 = 429-170,
 FDBB-25S1AENT12/1 = 429-181, FDCB-37S1AENT12/1 = 429-193

209782

No. of Ways	Order Code	1+	10+	25+	50+	+	+
Plugs							
9	429-120	23.43	21.70	20.99	19.29	--	--
9	111-4127	23.43	21.70	20.99	19.29	--	--
15	429-132	27.85	26.71	25.32	23.74	--	--
15	111-4131	27.85	26.71	25.32	23.74	--	--
25	429-144	31.15	31.04	30.88	29.18	--	--
25	111-4132	31.15	31.04	30.88	29.18	--	--
37	429-156	54.52	52.36	51.07	48.47	--	--
37	111-4133	54.52	52.36	51.07	48.47	--	--
Sockets							
9	429-168	25.84	23.37	22.37	20.77	--	--
9	111-4134	25.84	23.37	22.37	20.77	--	--
15	429-170	30.48	29.21	28.02	25.97	--	--
15	111-4135	30.48	29.21	28.02	25.97	--	--
25	429-181	36.16	34.73	34.06	31.81	--	--
25	111-4136	36.16	34.73	34.06	31.81	--	--
37	429-193	58.75	55.57	54.09	51.46	--	--
37	111-4137	58.75	55.57	54.09	51.46	--	--

Filtered Straight PCB 'D'



Mfrs. List Nos: FDE-9POL2T12/1 = 429-041, FDE-9SOL2T2/1 = 429-089
 FDE-9POL2T12/1-LF = 111-4118, FDE-9SOL2T2/1-LF = 111-4122
 FDA-15POL2T12/1 = 429-053, FDA-15SOL2T2/1 = 429-090
 FDA-15POL2T12/1-LF = 111-4119, FDA-15SOL2T2/1-LF = 111-4123
 FDB-25POL2T12/1 = 429-065, FDB-25SOL2T2/1 = 429-107
 FDB-25POL2T12/1-LF = 111-4120, FDB-25SOL2T2/1-LF = 111-4124
 FDC-37POL2T12/1 = 429-077, FDC-37SOL2T2/1 = 429-119
 FDC-37POL2T12/1-LF = 111-4121, FDC-37SOL2T2/1-LF = 111-4126

209779

No. of Ways	Order Code	1+	10+	25+	50+	+	+
Plugs							
9	429-041	19.97	18.39	17.24	14.89	--	--
9	111-4118	19.97	18.39	17.24	14.89	--	--
15	429-053	27.37	25.23	23.63	20.32	--	--
15	111-4119	27.37	25.23	23.63	20.32	--	--
25	429-065	38.33	35.28	33.45	28.50	--	--
25	111-4120	38.33	35.28	33.45	28.50	--	--
37	429-077	52.82	48.50	45.61	39.29	--	--
37	111-4121	52.82	48.50	45.61	39.29	--	--
Sockets							
9	429-089	20.90	19.29	18.04	15.57	--	--
9	111-4122	20.90	19.29	18.04	15.57	--	--
15	429-090	27.98	25.78	24.11	20.80	--	--
15	111-4123	27.98	25.78	24.11	20.80	--	--
25	429-107	40.12	37.04	34.67	29.89	--	--
25	111-4124	40.12	37.04	34.67	29.89	--	--
37	429-119	54.99	50.43	47.44	40.86	--	--
37	111-4126	54.99	50.43	47.44	40.86	--	--

Compliant
 Non-compliant
 Limited stock - RoHS replacement available
RoHS

Series 400 Ferrite Filtered 'D' Sub Connectors



- Optimum filtering performance 10-300MHz
- Provides pin to pin and pin to ground filtering
- Interchangeable with standard PCB mount 'D' sub connectors
- Effective in meeting FCC, VDE, EN55022 and VCCI requirements
- 4-40UNC locking inserts and boardlocks

Contact Rating 5A
Dielectric withstand voltage 1000Vrms (1 minute)
Insulation Resistance 1000MΩ @ 500V dc
Impedance 30Ω @ 25MHz/50Ω @ 100MHz
Temperature Range -40°C to +105
Housing PBT +30% GF UL94V-0
Shell Steel (tin plated)
Contacts Gold flash phosphor bronze

209982

No. of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+
Plugs						
9	56F402-001	118-6300	9.98	9.15	8.31	6.90
15	56F412-001	118-6301	11.68	9.31	8.67	7.77
25	56F422-001	118-6302	16.42	14.99	13.61	12.17
Sockets						
9	56F404-001	118-6303	9.11	7.32	6.67	6.18
15	56F414-001	118-6304	12.02	9.63	9.08	8.02
25	56F424-001	118-6305	14.63	11.68	9.76	8.22

High Density 'D' Tin & Dimple

HDP-22 Crimp Snap-in Contact Connectors Formed Pins



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

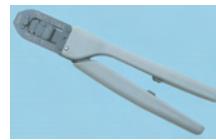
Contact Rating 5A
Contact Resistance 15mΩ max
Dielectric withstand voltage 1kV ac min
Temperature Range -55°C to +105°C
Housing Insulator
Contacts Steel, Tin plating
Black Thermoplastic UL94V-0

Mfrs. List Nos: 748333-4 = 182-4958 1658670-2 = 109-8472 748333-7 = 140-3047 1658670-4 = 109-8434 748610-4 = 140-2924 1658686-2 = 109-8424 748610-7 = 140-2936 1658686-4 = 109-8425

209975

No. of Ways	Mfrs. List No.	Order Code	1+	50+	100+	500+	+
Plug Housing							
15	748364-1	182-4867	4.93	4.47	4.17	3.42	--
26	748365-1	140-2961	5.05	4.74	4.47	3.78	--
26	1658671-1	109-8427	6.17	5.52	4.18	3.13	--
44	748366-1	140-2973	10.98	10.47	9.96	8.43	--
44	1658672-1	109-8428	5.60	5.01	3.79	2.84	--
62	748367-1	182-4879	18.88	16.20	14.82	13.44	--
62	1658673-1	109-8468	5.22	4.67	3.53	2.65	--
Socket Housing							
15	748565-1	140-2997	4.93	4.47	4.17	3.42	--
15	1658681-1	109-8429	5.22	4.67	3.53	2.65	--
26	748566-1	140-3000	5.05	4.74	4.47	3.78	--
26	1658682-1	109-8430	5.22	4.67	3.53	2.65	--
44	748567-1	140-3011	10.98	10.47	9.96	8.43	--
44	1658683-1	109-8431	4.74	4.25	3.21	2.41	--
62	748568-1	140-3023	18.88	16.20	14.82	13.44	--
62	1658684-1	109-8432	6.17	5.52	4.18	3.13	--
Order Multiple = 10							
		Order Code	10+	50+	100+	500+	+
Pin Contacts							
28-22 AWG, 0.08-0.4mm ² (Gold)							
		182-4958	0.41	0.34	0.31	0.31	--
28-22 AWG, 0.08-0.4mm ² (Gold)							
		109-8472	0.23	0.14	0.13	0.11	--
28-22 AWG, 0.08-0.4mm ² (Gold Flash)							
		140-3047	0.34	0.31	0.28	0.25	--
0.4mm ² (Gold Flash)							
		109-8434	0.16	0.10	0.09	0.08	--
Socket Contacts							
28-22 AWG, 0.08-0.4mm ² (Gold)							
		140-2924	0.47	0.41	0.38	0.34	--
0.08-0.4mm ² (Gold)							
		109-8424	0.29	0.18	0.16	0.14	--
28-22 AWG, 0.08-0.4mm ² (Gold Flash)							
		140-2936	0.44	0.38	0.34	0.31	--
0.4mm ² (Gold Flash)							
		109-8425	0.29	0.18	0.16	0.14	--

Crimp Tool for HDP-22



9629408

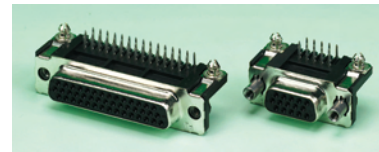


Mfrs. List Nos: 90800-1 = 215-6659 91285-1 = 180-9570 91520-1 = 962-9408

209976

	Order Code	Price Each
Crimp tool	215-6659	376.78
Crimp tool	NEW 962-9408	821.75
Insertion/Extraction Tool	180-9570	42.99

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



- Ideal for robotic and high temperature application
- 4.40 threaded inserts and female screwlocks
- Integral boardlocks

Contact Rating 2A
Contact Resistance 20mΩ max
Withstand voltage 1kV ac min
Temperature Range -55°C to +125°C
Housing Steel, Tin plated
Insulator Black Thermoplastic
Contacts Phosphor Bronze, Gold on mating end

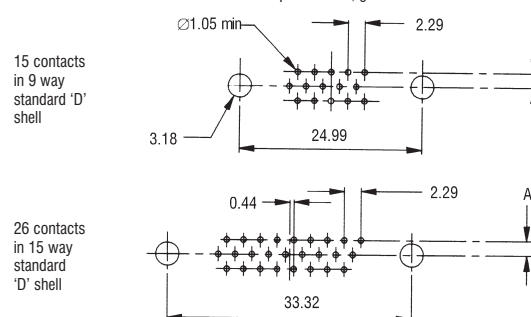
209974

No. of Ways	Mfrs. List No.	order Code	1+	50+	100+	500+	+
4-40 Threaded Inserts							
15	1-1470250-3	181-9069	11.73	10.56	9.96	8.79	--
15	1-1734530-3	105-6020	11.65	10.42	7.89	5.91	--
44	748482-5	181-9082	24.02	21.33	20.46	17.79	--
44	5748482-5	109-8452	8.74	7.82	5.92	4.44	--
62	748394-5	140-2833	36.50	32.85	31.02	27.39	--
62	5748394-5	109-8423	33.87	30.30	22.92	17.19	--
4-40 Female Screwlocks							
15	1-1470250-2	140-2754	11.89	10.71	10.08	8.91	--
15	1734530-3	105-6018	11.65	10.42	7.89	5.91	--
26	748481-6	140-2778	17.50	15.72	14.85	13.11	--
26	5748481-6	109-8420	19.40	17.36	13.13	9.85	--
62	748394-6	140-2780	29.07	23.27	18.98	16.14	--
62	5748394-6	109-8422	29.07	23.27	18.98	16.14	--

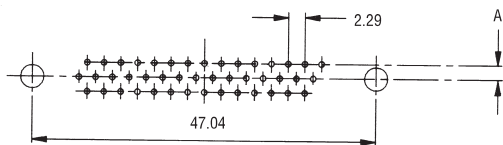


The High Density 'D' connector is well suited to a wide range of applications where a larger than normal number of contacts is required in a standard 'D' subminiature shell. Available with solder bucket or crimp contacts - both male and female, straight pcb termination (male only) and right angled pcb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

Contact Rating 3A @ 70°C
Contact Resistance 10mΩ max
Working voltage 300V dc/ac peak
Temperature Range -55°C to +105°C
Mating cycles 50
Housing Steel, Tin over Nickel plating
Insulator Black polyester
Contacts Copper alloy, gold over nickel
Pin Socket Phosphor bronze, gold over nickel



44 contacts
in 25 way
standard 'D'
shell



Dimension A, straight pcb = 1.98, 90° pcb = 2.54

210096

Solder Bucket (Formed Pin)



ITW
McMurdo
Connectors

Mfrs. List Nos: HDE15PTD. = 225-204 HDA26PTD. = 225-216 HDB44PTD. = 225-228
HDE15ST. = 225-230 HDA26ST. = 107-1812 HDB44ST. = 225-253

209765

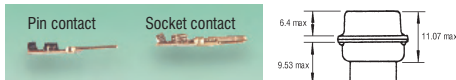
No. of Ways	Order Code	1+	25+	50+	100+	+
Plugs						
15	225-204▲‡	6.41	5.81	5.10	4.21	--
15	107-1808●	6.41	5.81	5.10	4.21	--
26	225-216▲‡	11.21	10.18	8.96	7.35	--
26	107-1809●	11.21	10.18	8.96	7.35	--
44	225-228▲‡	16.19	14.73	13.00	10.63	--
44	107-1810●	16.19	14.73	13.00	10.63	--
Sockets						
15	225-230▲‡	6.71	6.13	5.36	4.40	--
15	107-1811●	6.71	6.13	5.36	4.40	--
26	225-241▲‡	12.08	11.01	9.73	7.96	--
26	107-1812●	12.08	11.01	9.73	7.96	--
44	225-253▲‡	17.73	16.08	14.16	11.62	--
44	107-1813●	17.73	16.08	14.16	11.62	--

Crimp Housings

Formed Contacts and Tooling



ITW
McMurdo
Connectors



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

Mfrs. List Nos: HDEC15PTD. = 151-210 HDAC26PTD. = 151-211 MP-600-HD = 151-226
HDEC15ST. = 151-213 HDAC26PTD. = 107-5290 HDAC44PTD. = 151-212
HDEC15ST. = 107-5292 HDAC26ST. = 151-214 HDAC44PTD. = 107-5291
MP642-06. = 151-222 HDAC26ST. = 107-5293 MP643-16. = 151-224
MP642-06. = 107-5297 MP642-05. = 151-223 MP643-16. = 107-5300
MP643-15. = 151-225 MP642-05. = 107-5298 MP601HD = 151-227
MP643-15. = 107-5301

210097

No. of Ways	Order Code	1+	25+	Price Each 50+	100+	+
Plug Housing						
15	151-210▲‡	4.98	4.53	4.24	3.37	--
15	107-1807●	4.98	4.53	4.24	3.37	--
26	151-211‡	5.01	4.62	4.24	3.47	--
26	107-5290●	5.01	4.62	4.24	3.47	--
44	151-212‡	11.65	10.40	9.57	7.86	--
44	107-5291●	11.65	10.40	9.57	7.86	--
Socket Housing						
15	151-213‡	4.98	4.53	4.24	3.37	--
15	107-5292●	4.98	4.53	4.24	3.37	--
26	151-214‡	5.01	4.62	4.24	3.47	--
26	107-5293●	5.01	4.62	4.24	3.47	--
Price Per Pack						
Number of Insertions		1+	10+			
Pin Contacts (100 Per Pack)						
50	151-222‡	26.71	25.04			
50	107-5297●	26.71	25.04			
200	151-223‡	31.48	22.82			
200	107-5298●	31.48	22.82			
Socket Contacts (100 Per Pack)						
50	151-224‡	30.05	28.06			
50	107-5300●	30.05	28.06			
200	151-225‡	37.02	26.77			
200	107-5301●	37.02	26.77			

Ratchet
Crimp Tool
Insertion/Extraction Tool

Order Code

Price Each

151-226

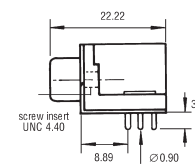
349.39

151-227

10.59

90° PCB Sockets - With Boardlocks and Screwlocks

ITW
McMurdo
Connectors

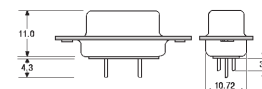


210098

No. of Ways	Order Code	1+	25+	50+	100+	+
15	210-535‡	11.92	11.01	10.56	9.66	--
15	107-5303●	11.92	11.01	10.56	9.66	--
26	210-547‡	17.43	15.99	15.02	13.19	--
26	107-5304●	17.43	15.99	15.02	13.19	--
44	210-559‡	31.51	28.12	25.87	21.35	--
44	107-5306●	31.51	28.12	25.87	21.35	--

Straight PCB Plugs (Turned Pin)

ITW
McMurdo
Connectors



Mfrs. List Nos: HDE15POLTD. = 151-216 HDA26POLTD. = 107-5295 HDB44POLTD. = 151-218

210099

No. of Ways	Order Code	1+	25+	50+	100+	+
15	151-216‡	10.19	9.08	8.35	6.87	--
26	107-5295●	17.53	15.63	14.32	11.81	--
44	151-218‡	28.58	25.52	23.43	19.32	--

Plastic 'D'

Plastic 90° PCB

ELCO



Contact Rating 1A
Contact Resistance 5mΩ max
Working voltage 350V dc/ac peak
Temperature Range -55°C to +105°C
Mating cycles 50
Housing Glass filled Thermoplastic Polyester,
Contacts Phosphor Bronze, Gold over Nickel

209972

No. of Ways	Mfrs. List No.	Order Code	1+	25+	50+	100+	+
Plugs							
9	108343009012001	637-531●	6.52	5.97	5.79	5.31	--
15	108343015012001	637-543●	9.14	8.37	8.07	7.44	--
25	108343025012001	637-555●	10.36	9.39	9.15	8.43	--
Sockets							
9	208343009012001	637-579●	6.05	5.52	5.37	4.89	--
25	208343025012001	637-592●	9.17	8.37	8.10	7.44	--

Micro Miniature 'D' Connectors

Microdot

tyco Electronics MICRODOT

PCB Connectors

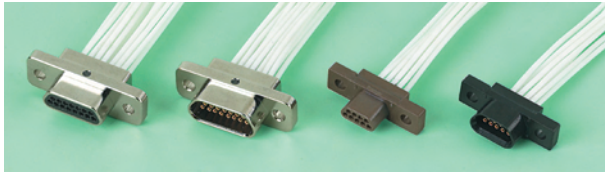


12

Connectors - Signal & Data

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

Lead Assemblies



- Designed for both military and commercial applications
- Current Rating - 3 amps per contact
- Leads, 18" Long (457mm)

	Metal	Plastic
Housing Mat	Aluminium Alloy	Polyphenylene Sulfide MIL-M-24519
Housing Plating	Nickel	
Insulator Material	Ryton R4	Polyester GF MIL-M-24519
Pitch	1.27mm	
Contact Material	Copper alloy	
Contact Plating	Gold over Copper MIL-G-45204 Type 2	
Contact Resistance	25mV at 3A 25°C	
Current Rating	3A	
Mating Cycles	≥500	
Temperature Range	-55°C to 125°C	
Insulation Resistance	≥5000MΩ	
Withstand Voltage	600V RMS	
Wire Range	30 AWG to 24 AWG	

232223

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+
Metal Shell - Plug					
9	MCKN1-B-9P6A1-18.0	388-0047	103.14	--	--
15	MCKN1-B-15P6A1-18.0	388-0059	152.71	--	--
25	MCKN1-B-25P6A1-18.0	388-0060	203.76	--	--
37	MCKN1-B-37P6A1-18.0	388-0072	215.13	193.47	179.28
51	MCKN1-B-51P6A1-18.0	388-0084	264.12	237.54	220.11
Metal Shell - Socket					
9	MCKN1-B-9S6A1-18.0	388-0096	112.07	--	--
15	MCKN1-B-15S6A1-18.0	388-0102	162.42	--	--
25	MCKN1-B-25S6A1-18.0	388-0114	163.45	147.02	136.23
37	MCKN1-B-37S6A1-18.0	388-0126	219.82	197.70	183.19
51	MCKN1-B-51S6A1-18.0	388-0138	268.23	241.23	223.54
Plastic Shell - Plug					
9	MCDDR3-B-9P6A1-18.0	388-0140	67.61	--	--
15	MCDDR3-B-15P6A1-18.0	388-0151	99.28	--	--
25	MCDDR3-B-25P6A1-18.0	388-0163	155.78	--	--
37	MCDDR3-B-37P6A1-18.0	388-0175	153.82	138.35	128.21
Plastic Shell - Socket					
9	MCDDR3-B-9S6A1-18.0	388-0187	73.98	--	--
15	MCDDR3-B-15S6A1-18.0	388-0199	95.51	--	--
37	MCDDR3-B-37S6A1-18.0	388-0217	165.32	148.69	137.77
Hardware					
Jackpost Assembly (Jackpost, nut and washer)					
	1466016-1	388-0023	8.32	--	--
Jackcrew Assembly (Jackscrew and circlip)					
	1466008-1	388-0035	10.42	--	--

PCB Connectors

No. of Ways	Mftrs. List No.	Order Code	1+	10+	50+
Metal Shell - RA PCB Plug					
9	MCKN1-P-9PRT1	388-0229	164.28	--	--
15	MCKN1-P-15PRT1	388-0230	201.30	--	--
25	MCKN1-P-25PRT1	388-0242	189.39	170.32	157.84
37	MCKN1-P-37PRT1	388-0254	262.13	235.74	218.44
Metal Shell - RA PCB Socket					
9	MCKN1-P-9SRT1	388-0278	186.56	--	--
15	MCKN1-P-15SRT1	388-0280	223.06	--	--
25	MCKN1-P-25SRT1	388-0291	257.98	--	--
Metal Shell- Straight PCB Plug					
9	MCKN1-P-9PST1	388-0321	136.87	123.10	114.05
15	MCKN1-P-15PST1	388-0333	169.17	152.12	140.98
37	MCKN1-P-37PST1	388-0357	283.38	254.84	236.16
Metal Shell - Straight PCB Socket					
9	MCKN1-P-9SST1	388-0370	163.97	147.47	136.65
15	MCKN1-P-15SST1	388-0382	229.11	--	--
37	MCKN1-P-37SST1	388-0400	395.11	--	--
51	MCKN1-P-51SST1	388-0412	461.93	--	--

Metal and Plastic Shell



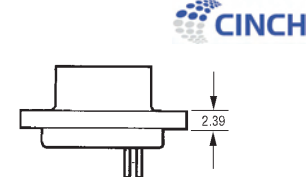
- A high quality, high density range of environmental connectors
- Lightweight, durable shell
- Twisted pin contact
- Ideal for industrial application where size and mateability are important
- Metal and plastic body version, complete with dust cover

Contact Rating	3A	Contact Resistance	≤8mΩ max
Working voltage	200V dc/ac peak	Insulation Resistance	5000MΩ
Proof voltage	600V dc/ac peak	Temperature Range	-55°C to +125°C

Mating cycles	500	Insulator	G.F
Housing (metal body)	Aluminium alloy	Contact material	Diallyl phthalate G.R
(plastic body)	Cadmium plated, Yellow chromate Thermoplastic polyester	Copper alloy, 50µ Gold plated	

227503

Metal Shell - Flying Leads

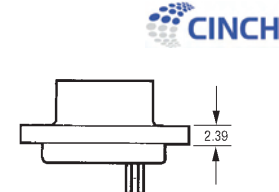
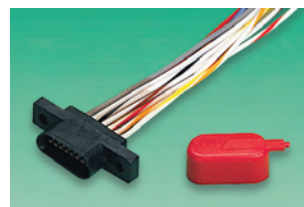


- 450mm colour coded PTFE flying leads

209836

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	100+	+
Plug							
9	DCCM-9P6E518.0B	750-591	57.63	51.36	48.48	43.80	--
9	DCCM-9P6E518.0B-LF	111-4163	57.63	51.36	48.48	43.80	--
15	DCCM-15P6E518.0B	750-608	80.43	71.73	67.71	58.29	--
15	DCCM-15P6E518.0B-LF	111-4164	80.43	71.73	67.71	58.29	--
25	DCCM-25P6E518.0B	750-610	127.08	114.39	107.97	93.88	--
37	DCCM-37P6E518.0B	750-621	173.64	156.36	147.57	128.06	--
37	DCCM-37P6E518.0B-LF	111-4167	173.64	156.36	147.57	128.06	--
51	DCCM-51P6E518.0B	750-633	213.15	191.94	181.11	157.64	--
51	DCCM-51P6E518.0B-LF	111-4168	213.15	191.94	181.11	157.64	--
Socket							
9	DCCM-9S6E518.0B	750-645	71.20	63.51	59.91	51.63	--
9	DCCM-9S6E518.0B-LF	111-4169	71.20	63.51	59.91	51.63	--
15	DCCM-15S6E518.0B	750-657	88.33	78.75	74.37	64.17	--
15	DCCM-15S6E518.0B-LF	111-4170	88.33	78.75	74.37	64.17	--
25	DCCM-25S6E518.0B	750-669	131.91	118.74	112.11	97.32	--
25	DCCM-25S6E518.0B-LF	111-4171	131.91	118.74	112.11	97.32	--
37	DCCM-37S6E518.0B	750-670	177.39	159.69	150.75	131.08	--
37	DCCM-37S6E518.0B-LF	111-4172	177.39	159.69	150.75	131.08	--
51	DCCM-51S6E518.0B	750-682	216.48	194.94	183.99	160.05	--
51	DCCM-51S6E518.0B-LF	111-4173	216.48	194.94	183.99	160.05	--
2 Per Pack			Price Per Pack				
			1+	10+	25+	100+	+
Jack posts							
	M83513/5.07	750-797	12.17	10.84	9.96	9.30	--
	M83513/5.07-LF	111-4186	12.17	10.84	9.96	9.30	--
Jack screws							
	M83513/5.05	750-803	15.75	14.33	13.14	11.63	--
	M83513/5.05-LF	111-4187	15.75	14.33	13.14	11.63	--

Plastic Shell - Flying Leads



- 450mm Colour coded PTFE flying leads

219842

No. of Ways	Mftrs. List No.	Order Code	1+	10+	25+	100+	+
Plug							
9	DCDA-9P6E518.0B	750-694	46.08	41.07	39.96	32.64	--
9	DCDA-9P6E518.0B-LF	111-4174	46.08	41.07	39.96	32.64	--
15	DCDA-15P6E518.0B	750-700	67.67	60.48	58.77	48.13	--
15	DCDA-15P6E518.0B-LF	111-4175	67.67	60.48	58.77	48.13	--
25	DCDA-25P6E518.0B	750-712	102.09	91.98	89.40	73.33	--
25	DCDA-25P6E518.0B-LF	111-4178	102.09	91.98	89.40	73.33	--
37	DCDA-37P6E518.0B	750-724	124.14	111.75	108.66	105.14	--
37	DCDA-37P6E518.0B-LF	111-4179	124.14	111.75	108.66	105.14	--
51	DCDA-51P6E518.0B	750-736	192.30	173.07	161.76	149.03	--
51	DCDA-51P6E518.0B-LF	111-4180	192.30	173.07	161.76	149.03	--
Socket							
9	DCDA-9S6E518.0B	750-748	50.42	44.91	42.63	34.83	--
9	DCDA-9S6E518.0B-LF	111-4181	50.42	44.91	42.63	34.83	--
15	DCDA-15S6E518.0B	750-750	65.08	58.05	56.49	53.80	--
15	DCDA-15S6E518.0B-LF	111-4182	65.08	58.05	56.49	53.80	--
25	DCDA-25S6E518.0B	750-761	94.05	84.63	83.33	--	--
25	DCDA-25S6E518.0B-LF	111-4183	94.05	84.63	83.33	--	--
37	DCDA-37S6E518.0B	750-773	133.71	121.18	--	--	--
37	DCDA-37S6E518.0B-LF	111-4184	133.71	121.18	--	--	--
51	DCDA-51S6E518.0B	750-785	223.92	201.54	188.37	173.54	--
51	DCDA-51S6E518.0B-LF	111-4185	223.92	201.54	188.37	173.54	--

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

Standard 'D' Shells

Economy D Hoods

Plastic, Snap or screw together D-Hoods



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

- Black or grey plastic
- Long or short screws available

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

238494

No. of Mfrs. Ways	List No.	Order Code	1+	10+	50+	+
Snap Together - Black						
9	MHCCOV-9SN-BK	393-7926	1.44	1.23	1.06	--
15	MHCCOV-15SN-BK	393-7938	1.67	1.40	1.17	--
25	MHCCOV-25SN-BK	393-7940	1.94	1.58	1.26	--
Snap Together - Grey						
9	MHCCOV-9SN-LG	393-7951	1.44	1.23	1.06	--
15	MHCCOV-15SN-LG	393-7963	1.67	1.40	1.17	--
25	MHCCOV-25SN-LG	393-7975	1.94	1.58	1.26	--
Screw Together - Black - Short Screw						
9	MHCCOV-9SC-BK	393-7987	1.44	1.23	1.06	--
15	MHCCOV-15SC-BK	393-7999	1.67	1.40	1.17	--
25	MHCCOV-25SC-BK	393-8001	1.94	1.58	1.26	--
Screw Together - Grey - Short Screw						
9	MHCCOV-9SC-LG	393-8013	1.44	1.23	1.06	--
15	MHCCOV-15SC-LG	393-8025	1.67	1.40	1.17	--
25	MHCCOV-25SC-LG	393-8037	1.94	1.58	1.26	--
Screw Together - Black - Long Screw						
9	MHCCOV-9SCL-BK	393-8049	1.77	1.58	1.40	--
15	MHCCOV-15SCL-BK	393-8050	2.02	1.74	1.50	--
25	MHCCOV-25SCL-BK	393-8062	2.32	1.94	1.61	--
Screw Together - Grey - Long Screw						
9	MHCCOV-9SCL-LG	393-8074	1.77	1.58	1.40	--
15	MHCCOV-15SCL-LG	393-8086	2.02	1.74	1.50	--
25	MHCCOV-25SCL-LG	393-8098	2.32	1.94	1.61	--

Colour Coded



- 8 different colours
- One piece hinged nylon, **UL94V-2**
- Quick snap locking assembly
- Captive steel jack screws (48mm)
- Nickel plated for coloured shells
- Black for black shells
- Reversible cable clamp with self tapping screws
- Lip height = 3.5

No. of Ways	H	W	D	Cable Entry Max. Dia
9	34	33	17	8.4
15	34	41	16	12
25	40	55	15	12
37	40	71	17	14

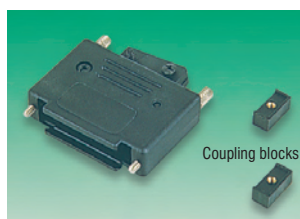
Mfrs. List No: DPPKxy,
where xx = No. of ways and y = colour

209788

Colour	Order Code	1+	25+	100+	+	+	+
9 way							
Black	469-889	3.37	3.21	2.87	--	--	--
Red	469-890	3.37	3.21	2.87	--	--	--
Blue	469-907	3.37	3.21	2.87	--	--	--
Yellow	469-919	3.37	3.21	2.87	--	--	--
Green	469-920	3.65	3.52	3.38	--	--	--
Brown	469-932	3.65	3.52	3.38	--	--	--
Light Grey	469-944	3.37	3.21	2.87	--	--	--
Computer Grey (Ivory)	469-956	3.37	3.21	2.87	--	--	--

Colour	Order Code	1+	25+	100+	+	+	+
15 way							
Black	469-968	3.40	3.28	3.21	--	--	--
Red	469-970	3.40	3.28	3.21	--	--	--
Blue	469-981	3.40	3.28	3.21	--	--	--
Yellow	469-993	3.40	3.28	3.21	--	--	--
Green	470-004	3.70	3.52	3.41	--	--	--
Brown	470-016	3.70	3.52	3.41	--	--	--
Light Grey	470-028	3.40	3.24	3.00	--	--	--
Computer grey	470-030	3.44	3.28	3.03	--	--	--
25 way							
Black	470-041	3.40	3.24	3.03	--	--	--
Red	470-053	3.40	3.24	3.03	--	--	--
Blue	470-065	3.40	3.24	3.03	--	--	--
Yellow	470-077	3.40	3.24	3.03	--	--	--
Green	470-089	3.70	3.52	3.41	--	--	--
Light Grey	470-107	3.40	3.24	3.03	--	--	--
Computer Grey (Ivory)	470-119	3.40	3.24	3.03	--	--	--
37 way							
Black	470-120	3.83	3.58	3.38	--	--	--

Plastic



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

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

Housing Black thermoplastic,
Mfrs. List Nos: MDJ9. = 150-758 MDJ15. = 150-759 MDJ25. = 150-760
MDJ37. = 150-761 MCB. = 150-763

210060

No. of Ways	Order Code	1+	25+	100+	250+	+	+
Screw Together Cover							
9	150-758	4.06	3.59	3.31	--	--	--
9	107-5162	4.06	3.59	3.31	--	--	--
15	150-759	4.64	4.13	3.76	--	--	--
15	107-5163	4.64	4.13	3.76	--	--	--
29	150-760	4.28	3.75	3.40	--	--	--
29	107-5164	4.28	3.75	3.40	--	--	--
37	150-761	4.35	3.84	3.46	--	--	--
37	107-5165	4.35	3.84	3.46	--	--	--
2 Per Pack							
Coupling blocks	150-763	1.96	1.80	1.54	1.39	--	--
Coupling blocks	107-5166	1.96	1.80	1.54	1.39	--	--

Plastic



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

Housing Black Thermoplastic,

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

210077

No. of Ways	Order Code	1+	10+	50+	+	+	+
9	121-5629	5.67	4.54	3.81	--	--	--
15	121-5630	5.98	4.72	4.00	--	--	--
25	121-5631	6.14	4.85	4.13	--	--	--
37	121-5633	6.68	5.23	4.44	--	--	--

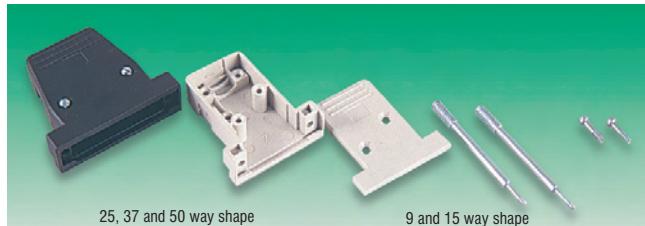
12

Connectors - Signal & Data

Compliant
Non-compliant
RoHS
Limited stock - RoHS replacement available

Top or Side Entry

multicomp



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

No. of Ways	H	W	D	Cable Entry Max.
9	41	35	17	6 x 5.5
15	48	43	17	9 x 5
25	48	57	17	9 x 6
37	54	74	17	13 x 6
50	54	70	20	13 x 9

209786

5 per pack

No of ways	Order Code	1+	20+	100+	+	+
Light Grey						
9	469-749‡	24.34	21.87	18.92	--	--
9	955-4343●	24.34	21.87	18.92	--	--
15	469-750‡	25.18	22.56	19.47	--	--
15	955-4351●	25.18	22.56	19.47	--	--
25	469-762‡	21.06	19.25	16.41	--	--
25	955-4360●	21.06	19.25	16.41	--	--
50	469-786	31.56	28.41	24.64	--	--
Black						
9	469-798‡	22.64	19.11	17.62	--	--
9	955-4378●	22.64	19.11	17.62	--	--
15	469-804‡	23.52	19.66	17.94	--	--
15	955-4386●	23.52	19.66	17.94	--	--
25	469-816‡	24.77	20.67	18.88	--	--
25	955-4394●	24.77	20.67	18.88	--	--
37	469-828‡	25.61	22.00	19.59	--	--
37	955-4408●	25.61	22.00	19.59	--	--
50	469-830‡	23.37	20.15	17.95	--	--
50	955-4416●	23.37	20.15	17.95	--	--

Plastic or Metallised Plastic

Snap together - Top or side entry D hoods



A range of plastic and metallised plastic D connector hoods

- Metallised Plastic provides excellent EMI shielding
- Suitable for all popular D-sub connectors
- Highly durable
- Quick snap together action - no screws needed
- Top and side entry options in one hood

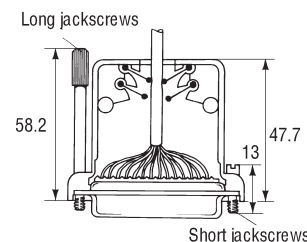
No of ways	Width	Height	Depth
9	31.5	40.0	15.0
15	40.0	40.0	15.0
25	53.5	40.0	15.0
37	71.3	40.0	15.0

238493

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	+
Plastic - Black						
9	MHDSSK-P-9-L-K	393-7847●	2.62	2.26	1.91	--
15	MHDSSK-P-15-L-K	393-7859●	2.97	2.59	2.26	--
25	MHDSSK-P-25-L-K	393-7860●	3.21	2.80	2.46	--
37	MHDSSK-P-37-L-K	393-7872●	3.49	3.11	2.73	--
Plastic - Metallised						
9	MHDSSK-M-9-L-K	393-7884●	4.75	4.37	3.99	--
15	MHDSSK-M-15-L-K	393-7896●	5.32	4.91	4.58	--
25	MHDSSK-M-25-L-K	393-7902●	5.67	5.26	4.91	--
37	MHDSSK-M-37-L-K	393-7914●	6.11	5.70	5.36	--

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The very latest NEW products

Quick Fit Cleat Clamp
Short or Long JackscrewsITW McMurdo
Connectors

H = 47.7, W = 34.8 (9 way), 42.5 (15 way), 56.3 (25 way), D = 16.87

- A screw together cover with a unique cleat action cable grip
- Available with short or long jackscrews, which are captive in the shell.

Housing	Black Thermoplastic,
Mfrs. List Nos:	MDL9L. = 150-802 MDL15L. = 150-803 MDL25L. = 150-804
	MDL9S. = 150-805 MDL15S. = 150-806 MDL25S. = 150-807

210078

No. of Ways	Order Code	1+	25+	100+	+	+
'D' Shell with Long Jackscrews						
MDL9L. 9	150-802‡	4.71	4.17	3.79	--	--
MDL9L. 9	107-5182●	4.71	4.17	3.79	--	--
MDL15L. 15	150-803‡	4.89	4.26	3.85	--	--
MDL15L. 15	107-5183●	4.89	4.26	3.85	--	--
MDL25L. 25	150-804‡	5.46	4.78	4.30	--	--
MDL25L. 25	107-5185●	5.46	4.78	4.30	--	--
'D' Shell with Short Jackscrews						
MDL9S. 9	150-805‡	3.55	3.11	2.84	--	--
MDL9S. 9	107-5186●	3.55	3.11	2.84	--	--
MDL15S. 15	150-806‡	3.73	3.35	2.97	--	--
MDL15S. 15	107-5187●	3.73	3.35	2.97	--	--
MDL25S. 25	150-807‡	4.22	3.62	3.35	--	--
MDL25S. 25	107-5188●	4.22	3.62	3.35	--	--

Jackscrew



CEEP

- A low cost screw together 'D' shell with the captive long jackscrews.

No. of Ways	H	W	D	Cable Entry Max.
9	30.5	31.5	18.2	6 dia.
15	38	42	18.5	7 dia.
25	44	55.5	18.2	8 dia.
37	46	72	18.2	7 x 16
50	46	62	21.5	10 x 16

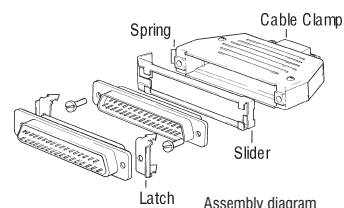
210079

No. of Mfrs. Ways	List No.	Order Code	1+	25+	100+	+	+
9	CT09	150-773●	6.99	6.08	4.75	--	--
15	CT15	150-774●	8.23	7.20	5.70	--	--
25	CT25	150-775●	6.50	5.73	4.40	--	--
37	CT37	150-776●	8.01	7.03	5.49	--	--
50	CT50	460-229●	8.88	7.84	6.17	--	--

Slidelock



CEEP



A screw together 'D' shell complete with slidelock assembly. Secure mating is assured by means of a four point locking system. The cover offers the facility for top or side cable entry.
Fixing screws to secure the connector to the slidelock cover are included.

No. of Ways	H	W	D	Cable Entry Max.
9	34	37	15	6
15	40	45	15	7
25	44	60	15	8
37	52	77	15	7 x 16
Housing	Black Thermoplastic,			

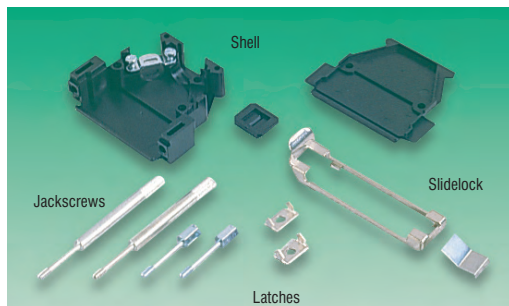
210080

No. of Ways	Mfrs. List No.	Order Code	1+	25+	Price Each 50+	+	+
'D' Shell and Slidlock							
9	CE09	150-764	5.40	4.81	4.54	--	--
15	CE15	150-765	5.46	4.88	4.61	--	--
25	CE25	150-766	5.68	5.05	4.78	--	--
37	CE37	150-767	7.25	6.49	6.08	--	--
			Price Per Pack				
			1+	10+	25+	50+	
Latches (5 Pairs Per Pack)							
	ML110.	150-772	3.43	3.12	2.71	2.66	

Universal Shell

Available with Screw or Slidlock

ITW **McMurdo**
Connectors



H = 45.2, W = 31 (9 way), 40 (15 way), 53.5 (25 way), 70 (37 way), D = 15

A screw together 'D' shell with internal strain relief, top cable entry on the 9 way and top or side cable entry on the 15, 25 and 37 way options. It caters for all types of locking requirements and it can be fitted with a slidlock assembly or jackscrews (either short or long). Latches are available for the connector mating to the slidlock version.

Housing Black Glass filled polycarbonate,

Mfrs. List Nos: MDM9. = 150-789 MDM15. = 150-790 MDM25. = 150-791 MDM37. = 150-792
M9SL. = 150-797 M15SL. = 150-798 M25SL. = 150-799 ML110. = 150-772
MJS. = 150-800 MJL. = 150-801

227391

No. of Ways	Order Code	1+	25+	Price Each / Per Pack 100+ 250+	+	+
D Shell						
9	150-789	5.79	5.16	5.02	--	--
9	107-5168	5.79	5.16	5.02	--	--
15	150-790	6.07	5.36	5.19	--	--
15	107-5169	6.07	5.36	5.19	--	--
25	150-791	6.99	6.31	6.14	--	--
25	107-5170	6.99	6.31	6.14	--	--
37	150-792	8.83	7.78	7.07	--	--
37	107-5171	8.83	7.78	7.07	--	--
Slidlocks (includes locking spring)						
9	150-797	2.08	1.92	1.73	1.51	--
9	107-5177	2.08	1.92	1.73	1.51	--
15	150-798	2.30	2.02	1.89	1.67	--
15	107-5178	2.30	2.02	1.89	1.67	--
25	150-799	2.43	2.14	1.95	1.76	--
25	107-5179	2.43	2.14	1.95	1.76	--
Latches (5 Pairs Per Pack)						
	150-772	3.43	3.12	2.71	2.66	
	107-5167	3.43	3.12	2.71	2.66	
Jack Screws (2 Per Pack)						
		1+	25+	100+	250+	+
Short, 26.7mm	150-800	1.86	1.64	1.51	1.32	--
Short, 26.7mm	107-5180	1.86	1.64	1.51	1.32	--
Long, 60mm	150-801	2.33	2.08	2.05	1.89	--
Long, 60mm	107-5181	2.33	2.08	2.05	1.89	--

Straight and 45° Cable Entry



- Low profile 45° design
- Turned, full metal 4-40 thumb screws



- Plastics strain relief inserts for cable sizes 3.5mm to 13mm
- Flame retardant black ABS UL94V-0

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

210007

No. of Ways	Top Entry Order Code	45° Entry Order Code	1+	10+	Price Each 50+	+	+
9	358-228	358-083	3.37	3.21	2.87	--	--
15	358-332	358-101	3.37	3.21	2.87	--	--
25	358-381	358-125	3.37	3.21	2.87	--	--
37	358-393	358-198	3.83	3.58	3.38	--	--

Plastic Box and Lid Straight / 45° exit

tyco Electronics AMP



- Unshielded cable clamps for HDP20 crimp snap in connectors

Housing Black Thermoplastic
Gates Black Thermoplastic
Screws Black zinc plated steel

210032

No. of Ways	Mfrs. List No.	Order Code	1+	100+	Price Each 250+	500+
9	207467-1	134-5576	7.50	7.18	6.89	6.53
15	207470-1	134-5588	5.11	4.81	4.58	4.42
25	207345-1	134-5590	8.01	7.61	7.22	6.92
25	207345-1	105-5992	5.98	5.35	4.05	3.04
37	207473-1	134-5606	4.79	4.55	4.36	4.16

Plastic Clam Shell Straight / 45° exit Unshielded Cable Clamps

tyco Electronics AMP



- Unshielded cable clamps for HDP20 crimp snap in connectors
- Includes hardware

Housing Black Thermoplastic

210028

No. of Ways	Mfrs. List No.	Order Code	1+	100+	Price Each 250+	500+
9	205729-1	134-5667	2.94	2.76	2.63	2.54
9	5205729-1	109-8368	4.99	4.16	3.33	2.50
15	205730-1	134-5679	8.20	--	--	--
15	5205730-1	109-8369	6.66	5.55	4.44	3.33
25	205718-1	134-5540	3.55	3.38	3.22	3.09
25	5205718-1	109-8362	5.43	4.53	3.62	2.72
37	205731-1	134-5552	5.71	5.46	5.20	4.97
37	5205731-1	109-8363	5.79	5.58	5.37	5.16

Metal - Deep Cover

Cannon

ITT Industries
Engineered for life



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

Mfrs. List Nos:DE24657 = 118-6661DB24659 = 118-6662

209672

No. of Ways	Order Code	1+	10+	Price Each 50+	+	+	+
9	118-6661	20.23	17.30	15.29	--	--	--
25	118-6662	22.80	19.55	17.23	--	--	--

EMI/RFI Shielded 'D' Shells

Black Plastic 3 Plastic Shield Hoods

tyco Electronics AMP



- For HDP20 and HDE20 metal shell connectors

Housing Black Thermoplastic
4-40 Screws Steel, zinc plated
Jackscrews Steel, zinc plated clear chromate

210026

No. of Ways	Mfrs. List No.	Order Code	1+	100+	Price Each 250+	500+
9	748678-1	140-2559	7.20	6.86	6.53	6.24
9	5748678-1	109-8407	10.63	9.51	7.19	5.40
15	748678-2	140-2560	13.81	13.13	12.55	12.03
15	5748678-2	109-8409	23.56	19.64	15.71	11.78
25	748678-3	140-2572	8.89	8.09	6.86	6.37
25	5748678-3	109-8411	10.63	9.51	7.19	5.40
37	748678-4	140-2584	7.77	7.35	7.02	6.70
37	5748678-4	109-8412	13.23	11.02	8.82	6.61

12

Connectors - Signal & Data

Compliant
Non-compliant
RoHS
Limited stock - RoHS replacement available

Metallised Plastic
Snap together Top entry

A range of Top entry snap together metallised plastic hoods

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

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

238492

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	+
9	MHDPPK-M-9-K	393-7800	4.10	3.69	3.17	--
15	MHDPPK-M-15-K	393-7811	4.75	4.30	3.85	--
25	MHDPPK-M-25-K	393-7823	5.05	4.71	4.06	--
37	MHDPPK-M-37-K	393-7835	5.53	5.08	4.91	--

JackscREW - Metallised Plastic

- A low cost screw together 'D' shell with captive long jackscREWs
- The metallised plastic finish provides effective protection against EMI/RFI interference.

No. of Ways	H	W	D	Cable Entry Max.
9	30.5	31.5	18.2	6 dia.
15	38	42	18.5	7 dia.
25	44	55.5	18.2	8 dia.
37	46	55	18.2	7 x 16
50	50	62	21.5	10 x 16

210100

No. of Ways	Mfrs. List No.	Order Code	1+	25+	100+	+	+
9	CT09M	150-777	8.98	7.81	6.14	--	--
15	CT15M	150-778	10.43	9.04	7.10	--	--
25	CT25M	150-779	7.25	6.36	4.95	--	--
37	CT37M	150-780	10.08	8.74	6.93	--	--
50	CT50M	460-230	11.78	10.27	8.02	--	--

Metallised Plastic

9 and 15 Way

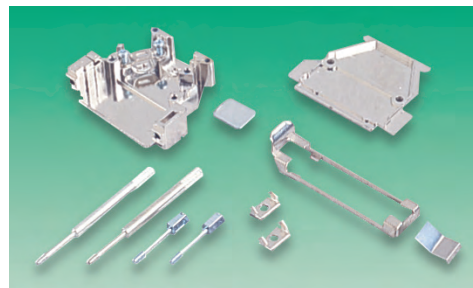
25 and 37 Way

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

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

209826

No. of Ways	Order Code	1+	25+	50+	+	+
9	609-109	5.55	4.94	4.67	--	--
9	955-4424	5.55	4.94	4.67	--	--
15	609-110	6.34	5.67	5.41	--	--
15	955-4432	6.34	5.67	5.41	--	--
25	609-122	5.13	4.61	4.35	--	--
25	955-4440	5.13	4.61	4.35	--	--
37	609-134	6.63	6.09	5.59	--	--
37	955-4459	6.63	6.09	5.59	--	--

Multicable Entry Metallised
Available with Screw or SlideloCK

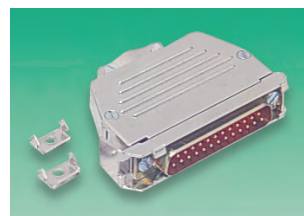
H = 45.2, W = 31 (9 way), 40 (15 way), 53.5 (25 way), 70 (37 way), D = 15

- A screw together 'D' shell with internal strain relief
- Top entry on the 9 way and top and side cable entry on the 15, 25 and 37 way options
- Caters for all types of locking requirements
- Can be fitted with a slideloCK assemble or jackscREws (either short or long)
- Latches are available for the connector mating to the slideloCK version

Mfrs. List Nos:	MDM9M. = 150-793	MDM15M. = 150-794	MDM25M. = 150-795
	MDM37M. = 150-796	M9SL. = 150-797	M15SL. = 150-798
	M25SL. = 150-799	ML110. = 150-772	MJS. = 150-800
	MJL. = 150-801		

227392

No. of Ways	Order Code	1+	25+	100+	250+	+	+
Metallised 'D' Shells							
9	150-793	7.70	6.76	6.11	--	--	--
9	107-5173	7.70	6.76	6.11	--	--	--
15	150-794	8.83	7.78	7.07	--	--	--
15	107-5174	8.83	7.78	7.07	--	--	--
25	150-795	10.18	8.98	8.13	--	--	--
25	107-5175	10.18	8.98	8.13	--	--	--
37	150-796	15.36	13.35	12.18	--	--	--
37	107-5176	15.36	13.35	12.18	--	--	--
SlideloCKs (includes locking spring)							
9	150-797	2.08	1.92	1.73	1.51	--	--
9	107-5177	2.08	1.92	1.73	1.51	--	--
15	150-798	2.30	2.02	1.89	1.67	--	--
15	107-5178	2.30	2.02	1.89	1.67	--	--
25	150-799	2.43	2.14	1.95	1.76	--	--
25	107-5179	2.43	2.14	1.95	1.76	--	--
Price Per Pack							
		1+	10+	25+	50+		
Latches (5 Pairs Per Pack)							
	150-772	3.43	3.12	2.71	2.66		
	107-5167	3.43	3.12	2.71	2.66		
Jack Screws (2 Per Pack)							
		1+	25+	100+	250+	+	+
Short, 26.7mm	150-800	1.86	1.64	1.51	1.32	--	--
Short, 26.7mm	107-5180	1.86	1.64	1.51	1.32	--	--
Long, 60mm	150-801	2.33	2.08	2.05	1.89	--	--
Long, 60mm	107-5181	2.33	2.08	2.05	1.89	--	--

SlideloCK - Metallised Plastic

A screw together 'D' shell complete with slideloCK assembly. Secure mating is assured by means of a four point locking system. The cover offers the facility for top or side cable entry.

The metallised plastic housing offers effective protection from EMI/RFI interference. Fixing screws to secure the connector to the slideloCK cover are included.

H = 34 (9 way), 40 (15 way), 44 (25 way), 52 (37 way), W = 37 (9 way), 45 (15 way), 60 (25 way), D = 15

210101

No. of Ways	Order Code	1+	25+	100+	+	+
'D' Shell and SlideloCK						
9	150-768	10.05	8.60	6.86	--	--
15	150-769	10.08	8.67	6.90	--	--
25	150-770	9.20	8.10	6.30	--	--
37	150-771	12.99	11.22	8.77	--	--
Price Per Pack						
		1+	25+	50+		
Latches (5 Pairs Per Pack)						
	150-772	3.43	3.12	2.71	2.66	

Metallised Plastic

Cannon
ITT Industries
Engineered for life



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

Housing	ABS Polymer	Coating	Nickel over copper
Mfrs. List Nos:		Top Entry	50° Entry
9 way	DE-121073-	154	54
15 way	DA-121073-	150	50
25 way	DB-121073-	151	51
37 way	DC-121073-	152	52
50 way	DD0121073-	—	53

210102

No. of Ways	Order Code	1+	10+	50+	+	+	+
Top Entry							
9	118-8164	18.58	14.87	11.62	--	--	--
15	118-8166	22.08	19.32	15.09	--	--	--
25	118-8167	19.94	17.51	13.77	--	--	--
37	118-8168	24.47	21.29	16.73	--	--	--
50° Entry							
9	118-8169	20.07	17.73	13.92	--	--	--
15	118-8170	21.33	18.85	14.73	--	--	--
25	118-8171	21.19	18.61	14.63	--	--	--
37	118-8172	23.47	20.66	16.24	--	--	--
50	118-8312	25.27	22.76	17.74	--	--	--
Male Screwlock							
Recessed slotted	118-8177	0.79	0.69	0.54	0.38	--	--
Finger jackscrew	118-8176	3.91	3.46	2.68	1.86	--	--

Metallised Plastic

Straight and 45° Cable Entry



- ABS with nickel over copper plating
- EMC/RFI shielding braid/foil folded back over suitable size strain relief bush
- Range of 5 strain relief bushes per hood
- Accepts foil, lap or braided cable
- No tooling required for shield termination

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

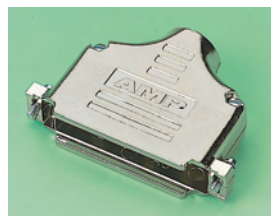
209845

No. of Ways	Straight Entry Order Code	45° Entry Order Code	1+	10+	50+	+	+
9	746-058	746-060	6.88	6.63	6.22	--	--
15	746-071	746-083	7.28	6.96	6.58	--	--
25	746-095	746-101	8.06	7.68	7.27	--	--
37	746-113	746-125	11.21	10.72	10.13	--	--

Metallised Plastic

Metal Plated Plastic Shield Hoods

tyco Electronics AMP



- For HDP20 and HDE20 metal shell connectors

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

219866

No. of Ways	Mfrs. List No.	Order Code	1+	25+	100+	250+
9	748677-1	140-2640	6.63	5.93	4.49	3.37
9	5748677-1	109-8416	26.86	24.03	18.18	13.63
15	748677-2	140-2651	8.58	8.09	7.70	7.41
15	5748677-2	109-8417	16.42	14.69	11.11	8.34
25	748677-3	140-2663	7.50	7.12	6.76	6.53
25	5748677-3	109-8418	11.58	10.36	7.84	5.88

Metallised Plastic

Straight and 45° Cable Entry



- Low profile 45° design
- Turned, full metal 4-40 thumb screws
- Plastic strain relief inserts for cable sizes 3.5mm to 13mm
- ABS with nickel over copper plating
- No tooling required for shielded termination

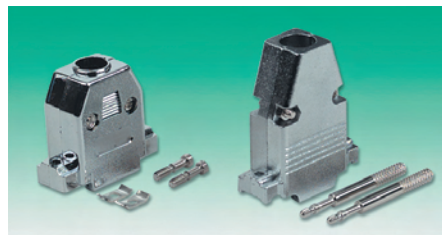
Mfrs. List No: MHD45PKx-K = 45° Hood MHDTPKx-K = Top Entry Hood, Where x = No. of ways

210011

No. of Ways	45° Entry Order Code	Top Entry Order Code	1+	10+	50+	+	+
9	357-649	357-728	4.57	4.35	4.10	--	--
15	357-662	357-765	4.41	4.19	3.94	--	--
25	357-698	357-698	4.57	4.35	4.10	--	--
37	357-704	357-984	5.36	5.13	4.91	--	--

Economy Metplas and Die cast D-Hoods

Top Entry



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

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

238496

No. of Ways	Order Code	1+	10+	50+	+
Metallised Plastic - Short Screws					
9	393-8104	2.12	1.91	1.67	--
15	393-8116	2.43	2.18	1.98	--
25	393-8128	2.53	2.29	2.08	--
37	393-8130	3.76	3.49	3.24	--
50	393-8141	5.19	4.78	4.44	--
Die Cast - Short Screws					
9	393-8153	2.84	2.46	2.12	--
15	393-8165	3.90	3.52	3.17	--
25	393-8177	4.40	3.99	3.65	--
Die Cast - Long Screws					
9	393-8189	2.84	2.46	2.12	--
15	393-8190	3.90	3.52	3.17	--
25	393-8207	4.40	3.99	3.65	--

Die-Cast Backshells

For D-Subminiature connectors

tyco Electronics AMP



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

12

Connectors - Signal & Data

Compliant
Non-compliant
Limited stock - RoHS replacement available
RoHS

- Straight or 45° cable entry
- Excellent EMI/RFI Shielding
- Lightweight and cost effective
- Supplied with standard cable grommet

- High performance cable grommet available for 360° screening
- Tooling and dies required for high performance grommet

Contact material	Phosphor Bronze	Contact material	Phosphor Bronze
Contact plating	Gold plated	Insulator material	PBT UL94V-0
Temperature range	-40°C to 120°C	Shell	Zinc Die Cast

239070

No. of Ways	Mfrs. List No.	Order Code	1+	100+	250+
Top Entry Backshells					
9 way	0-1478762-9	412-9696	5.53	4.91	4.36
15 way	1-1478762-5	412-9702	5.56	4.97	4.45
25 way	2-1478762-5	412-9714	5.85	5.23	4.65
37 way	3-1478762-7	412-9726	6.70	5.98	5.36
45° Angled entry Backshells					
9 way	0-1478763-9	412-9738	5.53	4.91	4.36
15 way	1-1478763-5	412-9740	5.56	4.97	4.45
25 way	2-1478763-5	412-9751	5.85	5.23	4.65
37 way	3-1478763-7	412-9763	6.70	5.98	5.36
High Performance Screened Cable Grommet					
6.0 mm	0-1478764-1	412-9775	2.31	2.08	1.85
7.5mm	0-1478764-2	412-9787	2.37	2.15	1.92
8.5mm	0-1478764-3	412-9799	2.47	2.21	1.95
9.5mm	0-1478764-4	412-9805	2.57	2.31	2.08
Crimp Tool and Dies for Screened Cable Grommet					
Crimp Tool	6-1419172-9	412-9817	230.34		
Die sets					
6.0mm	0-1583684-1	412-9829	36.15		
9.5mm	0-1583684-4	412-9854	36.15		

Diecast Rapid Assembly



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

No. of Ways	H	W	D
9	39.9	31.2	15.0
15	41.5	39.5	15.3
25	48.6	53.4	15.5
37	53.6	69.7	15.5

335206.343014

No. of Ways	Order Code	1+	10+	50+	+	+
Nickel						
9	486-1693	5.26	4.96	4.65	--	--
15	486-1700	6.60	6.16	5.86	--	--
25	486-1711	6.19	5.52	5.16	--	--
37	486-1723	8.20	7.23	6.50	--	--

Diecast Rapid Assembly Hi-Grade



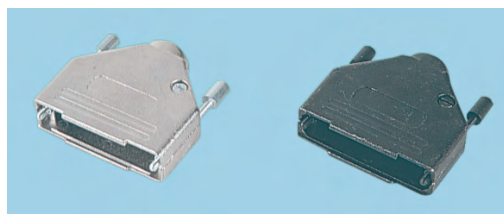
- Nickel plated die cast covers
- High quality plastic capped UNC440 jackscrews
- Rapid assembly strain relief insert
- 360° Metallised shielding
- Metallised shielding greatly enhances the performance of the hood
- Fully tapped screw holes
- Phillips headed screws

No. of Ways	H	W	D
9	39.9	31.2	15.0
15	41.5	39.5	15.3
25	48.6	53.4	15.5
37	53.6	69.7	15.5

335207.343016

No. of Ways	Order Code	1+	10+	50+	+	+
Nickel						
9	486-1735	5.76	5.46	5.16	--	--
15	486-1747	7.10	6.66	6.03	--	--
25	486-1759	6.70	6.03	5.66	--	--
37	486-1760	9.21	8.24	7.50	--	--

Diecast



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

No. of Ways	H	W	D	Mfrs. List No.	DTZK-xx = Nickel	DTZK-xxB = Black
9	40	31	15	25	49	53
15	42	40	15	37	54	70

209789

No. of Ways	Order Code	1+	10+	50+	+	+
Nickel						
9	463-012	5.37	5.05	4.75	--	--
15	463-024	6.71	6.28	5.97	--	--
25	463-036	6.31	5.63	5.26	--	--
37	463-048	11.48	10.45	10.31	--	--
Black Chromate						
9	463-050	7.53	6.86	6.73	--	--
15	463-061	7.87	7.16	7.03	--	--
25	463-073	8.07	7.33	7.27	--	--
37	463-085	10.78	9.81	9.64	--	--

Die Cast Sub D Hood System



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

Standard Assembly D Hoods - MHDM Series



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

MHDM Series

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	+
9	MHDM-9-K	430-3430	4.47	3.96	3.82	--
15	MHDM-15-K	430-3441	5.05	4.47	4.30	--
25	MHDM-25-K	430-3453	5.12	4.54	4.37	--
37	MHDM-37-K	430-3465	7.95	7.03	6.79	--

Cone Style D Hoods - MHEE Series



- Well proven shielding system using metallised cone insert
- 360 Degree shielding
- Cone insert can be cut to suit cable size
- Cone easily cut with knife
- Cone cutting tool available for high volumes

MHEE Series

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	+
9	MHEE-9-K	430-3477	4.47	3.96	3.82	--
15	MHEE-15-K	430-3489	5.05	4.47	4.30	--
25	MHEE-25-K	430-3490	5.12	4.54	4.37	--
37	MHEE-37-K	430-3507	7.95	7.03	6.79	--
Cone Cutting Tool						
	MHDCTMC	430-3519	174.00	155.37		

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

Crimp Style D Hoods - MHC Series



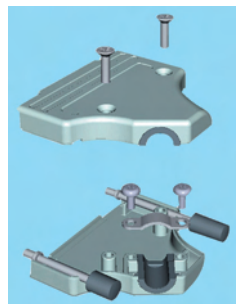
- For use where braided cable is used for a stronger permanent earth path
- Allows pre assembly of the earth connection before assembling the connector and backshell
- Select appropriate ferrule and die size for cable diameter

MHC Series

249078

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	+
9	MHC-9-K	430-3520	3.76	3.35	3.21	--
15	MHC-15-K	430-3532	4.34	3.82	3.69	--
25	MHC-25-K	430-3544	4.40	3.90	3.76	--
37	MHC-37-K	430-3556	7.23	6.38	6.17	--
Ferrule Kits						
5.0mm	MHC5.0	430-3568	1.06	0.96		
6.0mm	MHC6.0	430-3570	1.06	0.96		
7.0mm	MHC7.0	430-3581	1.06	0.96		
7.4mm	MHC7.4	430-3593	1.06	0.96		
8.6mm	MHC8.6	430-3600	1.06	0.96		
Ferrule Die Sets						
5.0mm	MHCDIE-5.0	430-3623	188.50	168.32		
6.0mm	MHCDIE-6.0	430-3635	188.50	168.32		
7.0mm	MHCDIE-7.0	430-3647	188.50	168.32		
7.4mm	MHCDIE-7.4	430-3659	188.50	168.32		
8.6mm	MHCDIE-8.6	430-3660	188.50	168.32		

Diecast MHulti 35° Hood Series



No. of Ways	H	W	D
9	41.3	32.2	15.4
15	43.3	40.6	15.4
25	49.5	54.5	15.4
37	54.3	70.7	15.4

Front profile

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

335210.343025

No. of Ways	Order Code	1+	10+	50+	+
Standard Hood					
9	486-1802	4.39	3.88	3.75	--
15	486-1814	4.96	4.39	4.22	--
25	486-1826	5.02	4.45	4.29	--
37	486-1838	7.80	6.90	6.66	--
Cone Hood					
9	486-1840	4.39	3.88	3.75	--
15	486-1851	4.96	4.39	4.22	--
25	486-1863	5.02	4.45	4.29	--
37	486-1875	7.80	6.90	6.66	--
Crimp Hood					
9	486-1887	3.68	3.28	3.15	--
15	486-1899	4.25	3.75	3.62	--
25	486-1905	4.32	3.82	3.68	--
37	486-1917	7.10	6.26	6.06	--

Diecast Zinc - Metal Right Angle Ultra Low Profile Covers



4861772



4861784



4861796

- Low profile and Ultra-Slim design allows for use in confined spaces
- Tapped through-holes ensures easy and rapid assembly
- Rugged Die-Cast Zinc covers provide excellent protection against EMI/RFI
- Available in 9 and 25 position with captive screws and unique 9 position ETHERNET style that is less than 1 inch in height

No. of Ways	H	W	D
9	44.55	19.81	15.09
9	50.80	24.38	15.09
25	72.14	30.23	14.99

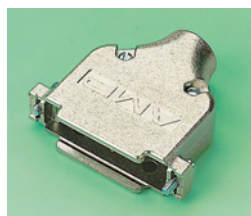
Order Code 4861772 will require Slide Lock Accessories.
Lock Posts 148704 and Lock Plate 148644

335208.343022

No. of Ways	Order Code	1+	10+	50+	+	+
Nickel						
9	486-1772	9.94	9.64	9.34	--	--
9 Ethernet	486-1784	9.94	9.64	9.34	--	--
25	486-1796	12.89	12.22	11.85	--	--

Diecast

Diecast Zinc Alloy Shield Hoods



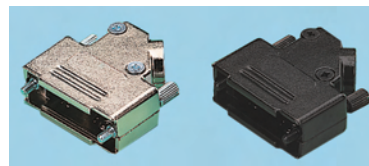
- For HDP20 and HDE20 metal shell connectors

Housing 4-40 screws Zinc alloy, Plated Bright Nickel over Bright Copper Steel, Zinc Plated

227510

No. of Ways	Mfrs. List No.	Order Code	1+	100+	250+	500+
9	748676-1	140-2730	9.12	8.61	8.32	7.93
9	5748676-1	109-8419	10.22	9.15	6.92	5.19
15	748676-2	140-2602	10.11	9.59	9.23	8.78
15	5748676-2	109-8413	12.19	10.90	8.25	6.19
25	748676-3	140-2614	17.10	16.28	15.57	14.85
25	5748676-3	109-8414	11.58	10.36	7.84	5.88
37	748676-4	140-2626	24.93	23.92	22.91	21.81
37	5748676-4	109-8415	11.77	10.53	7.97	5.97

45° Cable Entry



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

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

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

209981

No. of Ways	Order Code	1+	10+	50+	+	+
Nickel						
9	633-847	5.37	5.05	4.75	--	--
15	633-859	6.71	6.28	5.97	--	--
25	633-860	6.31	5.63	5.26	--	--
37	633-872	14.16	12.63	11.91	--	--
Black Chromate						
9	633-884	9.37	8.87	8.43	--	--
15	633-896	10.83	10.17	9.72	--	--
25	633-902	10.62	9.36	8.95	--	--
37	633-914	12.56	11.84	11.33	--	--

Diecast Shells and Retainers



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

12

Connectors - Signal & Data

Compliant
Non-compliant
Limited stock - RoHS replacement available
RoHS

No. of Ways	Shell Dimensions				Mfrs. List No.	Order Code
	H	W	D	max dia.		
9	33.5	40.4	16	9.5	R10000250000A000	209-387
15	33.5	48.4	16	9.5	R10000260000A000	209-399
25	39.5	60	16	9.5	R10000270000A000	209-405
37	39.5	76.4	16	9.5	R10000280000A000	209-417
50	39.9	74.9	18.8	12.7	R10000290000A000	209-429

No. of Ways	Shell Dimensions				Mfrs. List No.	Order Code
	H	W	D	max dia.		
9	33.5	40.4	16	9.5	RK000250000AL00	111-4093
15	33.5	48.4	16	9.5	RK000260000AL00	111-4095
25	39.5	60	16	9.5	RK000270000AL00	111-4096
37	39.5	76.4	16	9.5	RK000280000AL00	111-4097
50	39.9	74.9	18.8	12.7	RK000290000AL00	111-4099

210103

No. of Ways	Order Code	1+	10+	50+	+	+
9	209-387	13.32	12.61	11.59	--	--
9	111-4093●	13.32	12.61	11.59	--	--
15	209-399	11.21	10.62	9.66	--	--
15	111-4095●	11.21	10.62	9.66	--	--
25	209-405	13.73	13.00	12.01	--	--
25	111-4096●	13.73	13.00	12.01	--	--
37	209-417	16.04	15.15	14.03	--	--
37	111-4097●	16.04	15.15	14.03	--	--
50	209-429	17.07	15.36	14.91	--	--
50	111-4099●	17.07	15.36	14.91	--	--

'D' Accessories

D- Sub Hardware Accessories

multicomp

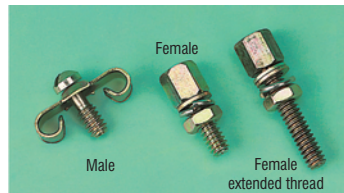


Mfrs. List No.	Description	Order Code
001CONN	Shoulder screw and saddle washer	441-3489
003CONN	Hex screw washer and nuts	441-3490
004CONN	Hex locking screw and nut	441-3507
006CONN	Captive screw and Retaining clip Kit	441-3519
007CONN	Captive screw and retaining clip kit	441-3520
008CONN	Captive screw and retaining clip kit	441-3532
009CONN	Hex locking screw (with slot)	441-3544
010CONN	Hex locking screw (17mm)	441-3556
011CONN	Spring latch lock 9/37 kit	441-3568
013-09	Slide lock and locking post Kit 9P	441-3570
013-15	Slide lock and locking post kit 15P	441-3611
013-25	Slide lock and locking post kit 25P	441-3623
014CONN	Slide lock post	441-3635
015 CONN	Slide lock post and washers	470-7394
016 CONN	Hex locking screw and nut 16mm	470-7400

311970.343028

Order Code	1+	100+	250+	500+
441-3489	0.68	0.56	0.38	0.35
441-3490▲	0.75	0.62	0.55	--
441-3507	0.52	--	--	--
441-3519	0.68	0.52	0.39	0.33
441-3520	0.75	0.59	0.42	0.36
441-3532	0.78	0.62	0.46	0.39

Screw Lock Accessories



Male Type D20419, 'D' Flange Th = 0.99 Type D20419-16, 'D' Flange Th = 1.37 Shell width = 13.9	Female Thread length = 8 Type D20418-2	Female extended thread Thread length = 14.5 Type D20418-2145
--	--	--

Available in either a yellow chromate on zinc plating finish, designed to match the standard yellow chromate 'D' connectors, or a bright tin plating suitable for EMI/RFI shielded 'D' connectors. The base of the female screwlocks have chamfered corners to prevent scratching of surface during assembly.

210082

2 Per Pack	Order Code	1+	25+	100+	250+	+	+
Yellow Chromate							
Male (Th = 0.99)	120-6634●	2.34	1.89	1.82	1.76	--	--
Female	105-024‡	3.51	3.09	2.88	2.64	--	--
Female	109-9006●	3.51	3.09	2.88	2.64	--	--
Extended female	105-025‡	3.63	3.51	3.42	3.09	--	--
Extended female	109-9007●	3.63	3.51	3.42	3.09	--	--
Bright Tin							
Female	257-795‡	2.37	2.25	2.07	1.62	--	--
Female	109-9010●	2.37	2.25	2.07	1.62	--	--
Extended female	257-801‡	2.88	2.73	2.55	2.01	--	--
Extended female	109-9011●	2.88	2.73	2.55	2.01	--	--

Screw Lock Accessories

Cannon

ITT Industries
Engineered for life

D20419 Male D20418-2 Female

Mfrs. List No.	Order Code
D20419	121-5323
D20418-14	121-5641

209673

2 Per Pack	Order Code	1+	10+	50+	100+	+	+
Male	121-5323●	10.80	8.63	5.26	3.46	--	--
Female	121-5641●	18.10	14.55	9.28	7.65	--	--

Mounting Accessories

ITW McMurdo
Connectors

315-953 Brackets and screws 315-965 PCB spacer

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

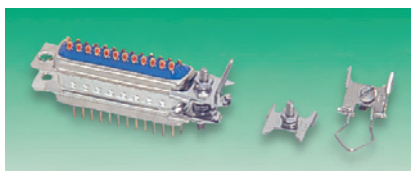
Spacer For mounting straight PCB connectors, two required per connector.

209674

Order Code	1+	25+	50+	100+	+	+
9, 15, 25, 37 Way (10 Pairs Per Pack)						
Brackets	315-953	10.82	9.95	9.26	7.12	--
Price Each						
Spacers	315-965‡	0.44	0.41	0.38	0.32	--
Spacers	107-5200●	0.44	0.41	0.38	0.32	--

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

Latch Assembly



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

219833

2 Per Pack	Order Code	1+	10+	50+	100+	+	+
Plate with spring	118-6663	11.56	10.19	8.17	6.28	--	--
Retaining plate	118-6664	9.21	8.17	6.67	4.98	--	--

D Type Connector Covers

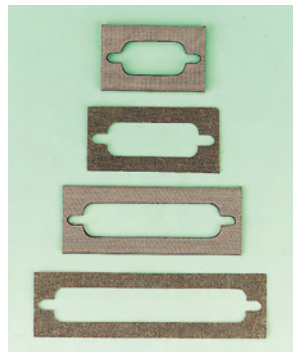


- Prevents physical and chemical damage
- For cable assemblies, computers, peripherals, etc
- Plug and socket options

211489

No. of Pins	Mfrs. List No.	Order Code	1+	20+	100+	+
Plug covers						
9	MHDC09P	529-5361	1.07	0.94	0.88	--
15	MHDC15P	529-5373	1.21	1.07	1.00	--
25	MHDC25P	529-5385	1.21	1.10	1.07	--
Socket covers						
9	MHDC09S	529-5397	1.14	1.00	0.94	--
15	MHDC15S	529-5403	1.13	0.94	0.91	--
25	MHDC25S	529-5415	1.21	1.07	1.00	--

Electromagnetic Shielding Gaskets



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

Thickness styles
 a = 0.3mm (0.012") Die-cut non-woven fabric
 b = 1.02mm (0.040") Woven fabric around neoprene
 c = 1.78mm (0.070") Woven fabric around neoprene

210008

'D' Size	Thickness	Mfrs. List No.	Order Code	1+	50+	100+	500+	+
1 (9 way)	a	267250-1	487-557	1.72	1.53	1.46	1.27	--
	b	267251-1	487-569	2.08	1.85	1.76	1.53	--
2 (15 way)	a	267250-2	487-582	1.98	1.76	1.69	1.46	--
	b	267252-1	487-594	2.45	2.15	2.05	1.79	--
	c	267252-2	487-600	2.44	2.15	2.08	1.79	--
3 (25 way)	a	267250-3	487-612	2.54	2.24	2.18	1.89	--
	b	267253-1	487-624	3.51	3.02	2.76	2.57	--
	c	267253-2	487-636	2.76	2.47	2.37	2.05	--
4 (37 way)	a	267250-4	487-648	2.37	2.11	2.02	1.76	--
	b	267254-1	487-650	3.02	2.70	2.57	2.24	--
	c	267254-2	487-661	3.09	2.73	2.63	2.28	--
5 (50 way)	a	267250-5	487-673	2.05	1.79	1.72	1.50	--
	b	267255-1	487-685	3.05	2.78	2.68	2.44	--
	c	267255-2	487-697	3.38	2.99	2.86	2.50	--

Amplimate 'D' Hardware



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

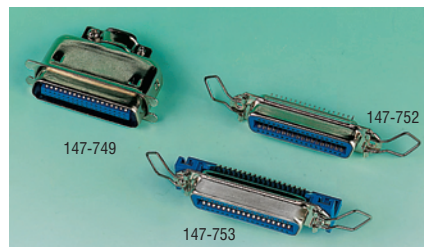
Mfrs. List No.	Description	Suitable For	Order Code
747784-3	2 piece 4-40 jackscrew kit		139-3728
205980-1	Male screw retainer kit for Metal shells	HDE/HDP Metal	134-5801
745647-1	Male screw kit for plastic shells	HDE/Plastic	134-5813
205817-1	Standard female screwlock kit	HDP/PL/Metal	134-5837
207719-1	Long female screwlock kit	HDF Plastic	134-5734
206514-1	2 Locking post assemblies	HDF/HD/HDP/HDF	134-5746
745255-2	2 Spring latches	HDE/HDP	134-5722
745563-1	Female screwlock kit (all plastic)	HDE Metal	177-8948
745779-2	2 spring latches with post moulded s/relief	HDE/HDP Metal	134-5680
745404-1	9w slide latch kit	HDF/HD/HDP/HDE	134-5758
745583-5	15w slide latch kit	HDF/HD/HDP/HDE	134-5760
745584-3	25w slide latch kit	HDF/HD/HDP/HDE	134-5771
745407-1	37w slide latch kit	HDF/HD/HDP/HDE	134-5783

Mfrs. List No.	Description	Suitable For	Order Code
5205980-1	Male screw retainer kit for Metal shells		109-8377
5745647-1	Male screw kit for plastic shells	HDE/HDP Metal	109-8379
5205817-1	Standard female screwlock kit	HDE/Plastic	109-8381
5207719-1	Long female screwlock kit	HDP/PL/Metal	109-8371
5206514-1	2 Locking post assemblies	HDF Plastic	109-8372
5745563-1	Female screwlock kit (all plastic)	HDF/HD/HDP/HDF	109-8451
5745404-1	9w slide latch kit	HDE/HDP	109-8373
5745583-5	15w slide latch kit	HDE Metal	109-8374
5745584-3	25w slide latch kit	HDE/HDP Metal	109-8375
5745407-1	37w slide latch kit	HDF/HD/HDP/HDE	109-8376

210024

Order Code	1+	100+	250+	500+
139-3728	7.17	6.87	6.57	6.27
134-5801 ▲	1.29	1.20	1.17	1.11
109-8377	2.01	1.68	1.34	1.07
134-5813 ▲	1.05	0.99	0.96	0.90
109-8379	1.75	1.46	1.17	0.93
134-5837 ▲	1.65	1.59	1.53	1.44
109-8381	1.49	1.24	0.99	0.79
134-5734 ▲	4.31	4.02	3.90	3.69
109-8371	3.87	3.23	2.58	2.07
134-5746 ▲	5.17	4.98	4.71	4.44
109-8372	3.07	2.56	2.04	1.64
134-5722	1.87	1.77	1.71	1.62
177-8948 ▲	1.90	1.80	1.71	1.65
109-8451	2.37	1.97	1.58	1.26
134-5680	2.36	2.28	2.19	1.98
134-5758 ▲	3.51	3.33	3.21	3.12
109-8373	6.66	5.55	4.44	3.55
134-5760 ▲	7.32	7.02	6.78	6.45
109-8374	8.01	7.77	7.56	7.23
134-5771 ▲	12.00	11.52	10.98	10.50
109-8375	12.99	12.63	12.21	11.67
134-5783 ▲	11.61	11.13	10.65	10.17
109-8376	12.60	12.21	11.85	11.31

Centronics/IEEE 488 Style



A range of metal shell connectors most commonly used for IEEE488 and printer interface connections.

Current rating	3A dc	Contacts	Phosphor Bronze, Gold over Nickel
Voltage rating	250V ac	Contact resistance	30mΩ max.
Temperature range	-55°C to +105°C	Housing	Blue Polyester, UL94V-0

Compliant
 Non-compliant
 Limited stock - RoHS replacement available
RoHS

219834

No. of Ways	Order Code	1+	25+	50+	100+	+	+
Straight Plugs							
14	285-018	14.07	12.84	12.15	10.71	--	--
14	113-1099	14.07	12.84	12.15	10.71	--	--
24	147-748	15.07	13.77	12.84	11.49	--	--
36	147-749	19.47	18.54	17.64	15.75	--	--
36	113-1097	19.47	18.54	17.64	15.75	--	--
50	285-020	30.26	27.66	27.00	24.06	--	--
50	113-1100	30.26	27.66	27.00	24.06	--	--
Straight PCB Sockets							
14	285-031	11.64	10.44	10.05	8.55	--	--
14	109-9013	11.64	10.44	10.05	8.55	--	--
24	147-750	12.23	11.01	10.32	8.73	--	--
24	109-9008	12.23	11.01	10.32	8.73	--	--
36	147-752	13.15	11.95	11.52	10.25	--	--
36	109-9009	13.15	11.95	11.52	10.25	--	--
50	285-043	21.81	19.74	19.17	17.28	--	--
50	109-9014	21.81	19.74	19.17	17.28	--	--
90° PCB Sockets							
36	147-753	15.88	14.27	13.36	11.27	--	--
36	113-1098	15.88	14.27	13.36	11.27	--	--

Centronics IDC Ribbon Connectors

Bailmount

multicomp



- Metal front shell (24 way plastic shell)
- Pitch, 1.27 (0.050")
- UL Recognised

Current Rating	1A	Temperature Range	-55°C To + 105°C
Insulation resistance	1000 MΩ	Insulation Material	Polyester UL94V-0
Contact resistance	20Ω	Contact Material	Phosphor Bronze
Dielectric withstand Voltage	500V ac @ 1min	Contact plating	Gold over Nickel

236518

No of Ways	Order Code	1+	25+	50+	250+	+
Plug						
24	369-3922	4.35	3.78	3.18	2.58	--
24	109-9278	4.35	3.78	3.18	2.58	--
36	369-3946	2.76	2.37	2.01	1.68	--
36	109-9282	2.76	2.37	2.01	1.68	--
50	369-3960	4.39	3.82	3.21	2.64	--
50	109-9284	4.39	3.82	3.21	2.64	--
Socket						
24	369-3934	4.39	3.82	3.21	2.61	--
24	109-9281	4.39	3.82	3.21	2.61	--
36	369-3958	2.91	2.48	2.12	1.76	--
36	109-9283	2.91	2.48	2.12	1.76	--
50	369-3971	4.35	3.78	3.18	2.61	--
50	109-9285	4.35	3.78	3.18	2.61	--
Strain relief						
24	369-3983	0.69	0.58	0.48	0.42	--
24	109-9286	0.69	0.58	0.48	0.42	--
36	369-3995	0.69	0.58	0.48	0.42	--
36	109-9287	0.69	0.58	0.48	0.42	--
50	369-4008	0.69	0.58	0.48	0.42	--
50	109-9288	0.69	0.58	0.48	0.42	--

SCSI Connectors

High Density I/O Connectors

Har-mik 1.27mm Pitch

HARTING

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

209945

Straight and 90° Pin I/O Connectors

HARTING

965-479
H=10.5, W=52.45, D=12.3965-455
H=9.3, W=52.45, D=10.5

- Polarised 'D' shaped shell
 - UL Recognised
- | | | | |
|--------------------|-----------------|-----------|--|
| Contact rating | 1A | Housing | Thermoplastic resin UL94V-0 |
| Contact resistance | ≤30mΩ | Insulator | nickel plated |
| Temperature range | -55°C to +105°C | Contacts | Copper alloy, Gold over Palladium/Nickel |

209946

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	+
Straight PCB socket - with latch blocks							
50	6001 050 5102	114-2824	16.12	15.15	14.19	12.26	--
68	6001 068 5102	114-2825	24.74	23.27	21.76	18.81	--
Straight PCB Socket - without latch							
68	6002 068 5120	965-467	26.32	24.74	23.15	20.02	--
68	6002 068 5120	109-6973	26.32	24.74	23.15	20.02	--
90° PCB Socket - with latch and board locks							
50	6001 050 5140	114-2826	16.93	15.92	14.89	12.84	--
68	6001 068 5140	114-2827	25.54	24.01	22.47	19.39	--
90° PCB Socket - with 2.56 UNC and board lock							
68	6002 068 5141	114-2828	28.58	26.87	25.13	21.73	--

90° Pin I/O Connectors

HARTING



- High density connectors with angled solder pins
- M2.5 Panel and board fixing (100 pole 2.56 UNC)

Contact rating	1A	Housing	Thermoplastic Resin
Contact resistance	30mR	Insulator	Die-cast zamac nickel plated
Temperature range	-55°C to +105°C	Contacts	Copper alloy . Gold over Palladium/Nickel

239280

Mfrs. List No.	No. of Ways	Order Code	1+	10+	50+	100+
Plug						
60010685232	68	854-013	42.12	36.72	32.26	19.36
Socket						
60010265132	26	854-025	24.40	21.06	18.46	14.65
60010505132	50	854-037	27.77	24.04	21.09	15.86
6010685132	68	854-049	42.12	36.72	32.26	24.43
60021005141	100	854-050	63.91	54.99	48.02	38.83

Intra Cabinet, Ribbon Cable Connectors

HARTING



H=10.26, W=63.88, D=15.7

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

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

219859

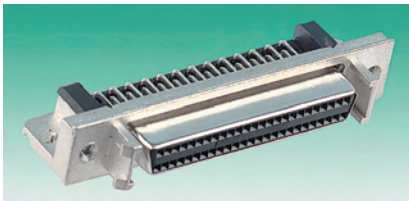
No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	+
Panel Mount Sockets							
68 (fastwide SCSI)	6004 068 5343..	965-509	24.11	22.66	21.86	18.33	--
68 (fastwide SCSI)	6004 068 5343	109-6974	24.11	22.66	21.86	18.33	--
68 (SCSI-3 wide)	6004 068 5344.	965-510	23.27	21.89	20.48	17.69	--
68 (SCSI-3 wide)	6004 068 5344	109-6975	23.27	21.89	20.48	17.69	--

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+	+
Free Plug							
68 (SCSI-3 wide)	6006 068 5440.	965-522†	20.23	19.04	17.78	15.41	--
68 (SCSI-3 wide)	6006 068 5440	109-6976●	20.23	19.04	17.78	15.41	--
Accessories							
68 strain relief (plastic)	6006 068 9001	114-2829●	3.12	2.93	2.68	2.17	--
2 Per Pack							
Screw Locks	6001 000 9019	114-2830●	2.31	2.18	2.08	1.69	--

SCSI12 High Density Connector

PCB Mount Sockets - Right Angle

multicomp



- High Density SCSI12 connector
- 1.27 (0.050") Pitch
- Conforms to ANSI specifications
- CSA. Approved, UL Recognised

Current	500M Ω	Temperature Range	-55°C to +105°C
Insulation resistance	35m Ω	Insulation Material	Glass filled PB7 UL94V-0
Contact resistance	250V	Contact Material	Phosphor Bronze, Gold over Nickel

236517/406721

No. of Ways.	Order Code	1+	25+	50+	250+	+
50	369-3752†	6.42	5.58	4.70	3.94	--
50	109-9271●	6.42	5.58	4.70	3.94	--
68	369-3740†	6.90	6.03	5.10	4.20	--
68	109-9270●	6.90	6.03	5.10	4.20	--

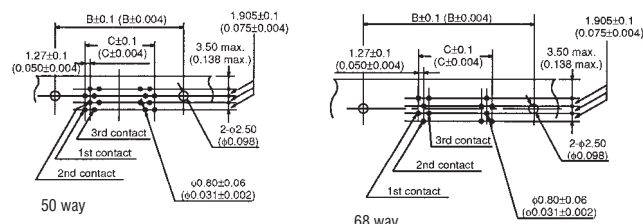
90° PCB Sockets, 50 and 68 Way

FUJITSU



High density 90° PCB mounting 50 or 68 way sockets conforming to ANSI specifications for SCSI12.

H=10.5, W=52.45 (50 way), 63.88 (68 way), D=17.3



Contact rating	1A dc	Housing	Nickel plated
Contact resistance	30mΩ max. @ 6V dc 0.1A	Insulator	Black polyester, UL94V-0
Voltage rating	240V ac	Contacts	Copper alloy
Temperature range	-55°C to +105°C		Gold over Palladium

219839

No. of Ways	Mfrs. List No.	Order Code	1+	25+	100+	250+	+
50	FCN-235D050-G/E.	439-368	17.25	16.40	15.30	13.78	--
50	FCN-235D050-G/E	109-7377●	19.60	18.62	17.71	17.15	--
68	FCN 235D068-G/E.	439-370	26.29	25.00	23.28	21.04	--
68	FCN 235D068-G/E	109-7378●	29.85	27.63	26.92	26.11	--

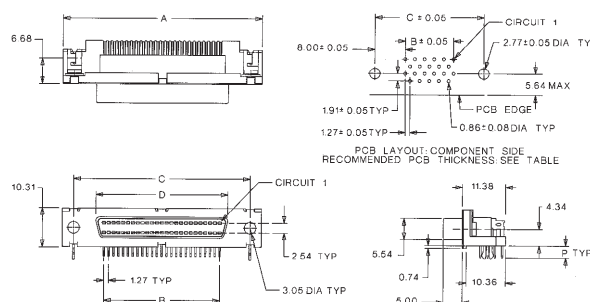
Vertical PCB Sockets, 50 and 68 Way

molex



- Shielded version without latches
- Snap in board lock

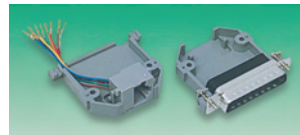
No. of Ways	A	B	C	D	P
50	52.45	30.48	46.48	34.70	3.18
68	63.88	41.91	57.91	46.13	3.18



Current Rating	1A	Temperature	-55°C to 105°C
Voltage Rating	30V	Housing	Black glass-filled polyester UL94V-0
Dielectric withstand voltage	500Vac	Contact	Phosphor Bronze, Gold over Nickel
Insulation resistance	1000MΩ min.	Tails	Tin plating over nickel
Contact resistance	25mΩ max.		

209829

No. of Ways	Mfrs. List No.	Order Code	1+	10+	100+	500+	+
50	1587-6040	673-420●	28.05	22.02	20.07	15.36	--
68	1587-6200.	673-432†	35.19	27.66	25.14	19.26	--
68	1587-6200	101-2257●	37.85	30.99	20.43	15.47	--

Adaptors**D-FCC-68 Adaptors**

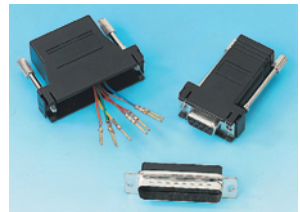
A range of adaptors for interfacing 'D' connectors to modular connectors.

The adaptors provide an easy method for using inexpensive 6 or 8 wire cable to interconnect with RS232 computer equipment. The modular socket has colour coded crimp terminations

which can be hardwired into the 'D' connector. Each kit is supplied with a grey cover and captive jack screws.

209771

Modular Socket	'D' Connector	Order Code	1+	25+	50+	100+
RJ11	9 Way D Socket	117-9358●	13.13	11.25	10.03	9.46
RJ11	25 Way D Plug	117-9359●	13.13	11.25	9.96	9.40
RJ11	25 Way D Socket	117-9360●	13.13	11.25	10.18	9.62
RJ45	9 Way D Plug	117-9361●	13.08	11.53	10.31	9.33
RJ45	9 Way D Socket	117-9363●	13.08	11.53	10.31	9.33
RJ45	25 Way D Plug	117-9364●	13.08	11.53	10.31	9.33
RJ45	25 Way D Socket	117-9365●	13.08	11.53	10.31	9.33

Modular Jack Adaptors

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

Mfrs. List No.	Farnell Order Code	Mfrs. List No.	Farnell Order Code	Mfrs. List No.	Farnell Order Code
MHDA25-PMJ8-K	429-739	MHDA9-SMJ8-K	647-846	MHDA9-PMJ6-K	647-858
MHDA25-SMJ8-K	429-740	MHDA25-PMJ6-K	647-810	MHDA9-SMJ6-K	647-860
MHDA9-PMJ8-K	647-834	MHDA25-SMJ6-K	647-822		

221471

	Order Code	1+	10+	25+	50+
RJ45 Connections					
RJ45 to 25 Way D Plug	429-739	7.80	7.02	6.30	5.61
RJ45 to 25 Way D Socket	429-740	7.80	7.02	6.30	5.61
RJ45 to 9 Way D Plug	647-834	7.80	7.02	6.30	5.61
RJ45 to 9 Way D Socket	647-846	7.80	7.02	6.30	5.61
RJ11 Connections					
RJ11 to 25 Way D Plug	647-810	7.47	6.72	6.00	5.49
RJ11 to 25 Way D Socket	647-822	7.47	6.72	6.00	5.49
RJ11 to 9 Way D Plug	647-858	7.47	6.72	6.00	5.49
RJ11 to 9 Way D Socket	647-860	7.47	6.72	6.00	5.49
10 Per Pack					
Additional Cables					
Cables (Female) 10 pack	647-883	4.47	4.05	3.54	3.21

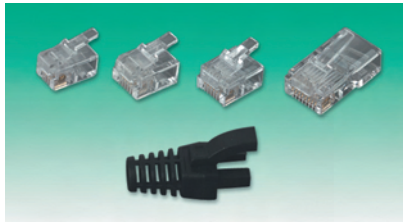
12

Connectors - Signal & Data

Compliant
Non-compliant
Limited stock - RoHS replacement available

RoHS

FCC-68 Modular Connectors

RJ Modular Plugs
and strain relief inserts

A range of quality RJ series Modular Plugs

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

238497

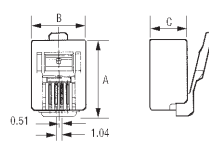
Ways / Contacts	Mfrs. List No.	Order Code	Price Each			
			10+	50+	100+	500+
4/4	MHRJ114P4CF	393-8220	0.30	0.24	0.20	0.17
6/4	MHRJ126P4CR	393-8232	0.36	0.27	0.24	0.20
6/6	MHRJ126P6CR	393-8244	0.41	0.30	0.27	0.24
8/8	MHRJ458P8CR	393-8256	0.50	0.36	0.33	0.30
Strain Relief Inserts (only for use with 8/8 contact connector)						
Light Grey	MHRJ45SRI-LG	393-8268	0.50	0.44	0.36	0.30
Black	MHRJ45SRI-BK	393-8270	0.50	0.44	0.36	0.30
Blue	MHRJ45SRI-B	393-8281	0.50	0.44	0.36	0.30
Green	MHRJ45SRI-G	393-8293	0.50	0.44	0.36	0.30
Red	MHRJ45SRI-R	393-8300	0.50	0.44	0.36	0.30
Yellow	MHRJ45SRI-Y	393-8311	0.50	0.44	0.36	0.30

Unshielded Plugs



RJ11 MMJ RJ45

STEWART



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

Contact rating	1.5A @ 30V ac/42V dc	Housing	Clear Polycarbonate, UL94V-0
Contact resistance	10mΩ max.	Contacts	Phosphor Bronze
Dielectric strength	1000V rms	Plating	50µinch gold over 100µinch nickel
Insulation resistance	500MΩ min.	Temp. range	-40°C to +125°C
Mating cycles	1000	Suitable wire size	24, 26, 28 AWG, 0.96mm dia.

Mfrs. List No.	No. of Positions	Type	Cable Type	Length A (mm)	Width B (mm)	Height C (mm)	Order Code
Stranded Conductors							
937-SP-3044	4	—	Flat/oval	13.3	7.6	6.6	429-752
937-SP-3066	6	RJ11	Flat/oval	13.3	9.6	6.6	429-764
937-SP-3066R	6	RJ11	Round	13.3	9.6	6.6	429-776
937-SP-3066R-OST	6	MMJ	Round	13.3	9.6	6.6	429-788
937-SP-3066-OST	6	MMJ	Flat/oval	13.3	9.6	6.6	429-790
937-SP-3088R	8	RJ45	Round	22.5	11.7	7.9	429-806

Solid or Stranded Conductors							
940-SP-3044	4	—	Flat/oval	13.3	7.6	6.6	429-818
940-SP-3066	6	RJ11	Flat/oval	13.3	9.6	6.6	429-820
940-SP-3066R	6	RJ11	Round	13.3	9.6	6.6	429-831
940-SP-3066R-OST	6	MMJ	Round	13.3	9.6	6.6	429-843
940-SP-3066-OST	6	MMJ	Flat/oval	13.3	9.6	6.6	429-855
940-SP-3088R	8	RJ45	Round	22.5	11.7	7.9	429-867

NET98/221639

10 Per Pack		Price Per Pack			
No. of Positions	Order Code	1+	10+	25+	
Stranded Conductors					
4	429-752	7.01	6.32	5.84	
6	429-764	9.01	8.12	7.51	
6	429-776	9.01	8.12	7.51	
6	429-788	13.35	12.68	11.68	
6	429-790	13.35	12.68	11.68	
8	429-806	13.69	12.33	11.36	
4	429-818	7.01	6.32	5.84	
6	429-820	9.01	8.12	7.51	
6	429-831	9.01	8.12	7.51	
6	429-843	13.48	12.81	11.80	
6	429-855	13.48	12.81	11.80	
8	429-867	13.83	12.45	11.47	

Unshielded 8 Way RJ45 Plug



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

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

NET154/221459

10 Per Pack	Order Code	1+	10+
	546-124	34.54	32.85

RJ45 Shielded Standard



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

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

334965

Cable Type	Mfr. List No.	Order Code	1+	10+	50+	100+
Stranded	5-569532-2	453-3732	2.83	2.54	2.31	2.12
Stranded	5-569532-2	118-7824	2.83	2.54	2.31	2.12
Solid	5-569530-2	473-9565	1.33	1.17	1.04	0.98
Crimp Tool	2-231652-1	218-9483	351.90			

RJ45 EMT Shielded

Cat5e, for all EMV requirements



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

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

334967/406725

Description	Mfrs. List No.	Order Code	1+	10+	50+	100+
Plug	336330-1	473-9504	3.06	2.70	2.44	2.21
Crimp Tool						
Ergocrimp with Die	539690-1	785-4692	1,093.19			
Replacement Die	1-539690-1	473-9530	203.64			
Strain Relief						
Colour	Mfrs. List No.	Order Code	10+	50+	100+	+
Grey	737893-2	473-9590	0.60	0.54	0.47	—
Red	737893-3	473-9607	0.60	0.54	0.47	—
Blue	737893-4	473-9619	0.60	0.54	0.47	—
Green	737893-5	473-9620	0.60	0.54	0.47	—
Yellow	737893-6	473-9632	0.60	0.54	0.47	—

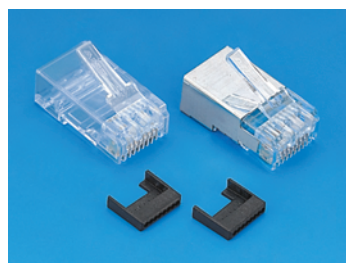
• FREE to all account holders

• Notification of obsolete, end of line and end of stock items

• Replacement or upgrade recommendations

Advanced warning of obsolete components

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

RJ45 Shielded Cat5e**tyco Electronics AMP**

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

Contact Rating 150V ac at 1.5A
 Withstand Voltage 1000V ac
 Insulation Resistance 500MR
 Durability 750 mating cycles
 Temperature Range -40°C to 60°C

Material
 Body Polycarbonate
 Flammability UL94V-2
 Contact Phosphor Bronze
 Contact Plating Gold over Nickel

334966/406724

Description	Mfrs. List No.	Order Code	Price Each			
			1+	10+	50+	100+
Stranded Cable						
Plug	5-569552-2	473-9589	2.76	2.43	2.20	2.01
Crimp Tool	3-231652-0	307-3488	342.00	300.00		

Unshielded Plugs**molex**

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

90075-0027 90075-0031

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

209679

No. of Ways/Contacts	Order Code	1+	10+	100+	500+
Short Body					
4/4	112-5135	1.68	1.58	1.36	—
6/4	112-5136	1.89	1.75	1.51	—
6/6	112-5137	1.78	1.66	1.43	—
8/8	112-5139	3.04	2.56	1.65	1.24

Crimp Tool for FCC-68 Plugs**molex**

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

Order dies separately.

209799

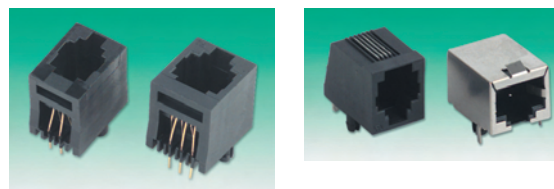
	No. of Ways/Contacts/Body Type	Mfrs. List No.	Order Code	Price Each
				1+
Ratchet Crimp Tool	—	69008-1150	473-145	224.60
Die Set	4/4 SHORT	69008-1125	473-157	123.35
Die Set	6/4 SHORT	69008-1126	473-169	123.01
Die Set	6/6 SHORT	69008-1127	473-170	122.08
Die Set	8/8 SHORT	69008-1129	473-182	122.97
Die Set	8/8 LONG	69008-1103	473-352	190.53

Crimp Tool for RJ45 Plugs**STEWART**

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

221425

	No. of Positions	Mfrs. List No.	Order Code	Price Each
				1+
Crimp tool	—	2980011-01	308-9599	219.43
Die Set	MMJ	2980014-01	308-9629	81.15
Die Set	4	2980012-01	308-9605	81.15
Die Set	6	2980013-01	308-9617	81.15
Die Set	8	2980015-01	308-9630	81.15
Die Set - Shielded	8	2980017-01	308-9642	81.15
Ferrule crimp tool	—	2980028-01	308-9654	204.60
Ferrule Insert cable OD 5.2mm	—	2980031-01	308-9666	95.46

Modular Jacks - Vertical and Right Angle PCB Mount**MH CONNECTORS**

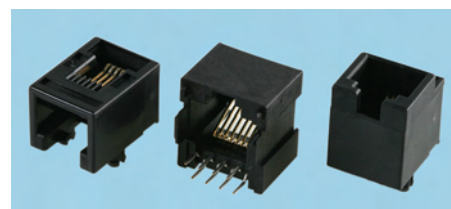
A range of right angle and vertical PCB mounted modular jacks

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

Contact Material Phosphor bronze alloy
 Contact Plating Gold over Nickel

238499

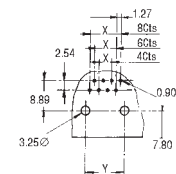
Contacts	Mfrs. List No.	Order Code	1+	10+	100+
RA Unshielded					
4/4	MHRJJ44NFRA	393-8335	1.00	0.90	0.83
6/4	MHRJJ64NFRA	393-8347	1.06	0.96	0.90
6/6	MHRJJ66NFRA	393-8359	1.48	1.35	1.28
8/8	NMC27C32BQ200	393-836	11.58	8.58	7.14
RA Shielded					
6/6	MHRJJ66NFRAS	393-8372	1.99	1.86	1.77
8/8	MHRJJ88NFRAS	393-8384	2.66	2.50	2.34
Vertical Unshielded					
4/4	MHRJJ44NFV	393-8396	1.00	0.90	0.83
6/4	MHRJJ64NFV	393-8402	1.06	0.96	0.90
6/6	MHRJJ66NFV	393-8414	1.48	1.35	1.28
8/8	MHRJJ88NFV	393-8426	1.60	1.48	1.35
Vertical Shielded					
8/8	MHRJJ88NFVS	393-8438	2.66	2.50	2.41

Unshielded Low Profile PCB Sockets**molex**

Low profile 90° Bottom entry Vertical

- UL recognised and CSA approved

Contact rating 1.5A @ 125V dc
 Contact resistance 20mΩ max.
 Dielectric strength 1000V ac
 Insulation resistance 500MΩ min.
 Mating cycles 500
 Housing Black Polyester, UL94V-0
 Contacts Phosphor Bronze
 Plating 1.3µm gold on nickel
 Temp. range -40°C to +80°C



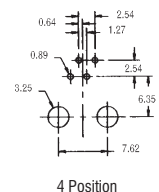
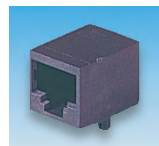
No. of Ways/ Contacts	H	W	D	X	Y	Mfrs. List No.	Order Code
Low Profile 90°							
4/4	11.5	11.18	18.1	3.81	7.62	95001-2441.	473-273
4/4	11.5	11.18	18.1	3.81	7.62	95001-2441	973-2780
6/4	11.5	13.81	18.1	3.81	10.16	95001-2641	925-2002
6/6	11.5	13.21	18.1	6.35	10.16	95001-2661.	473-285
6/6	11.5	13.21	18.1	6.35	10.16	95001-2661	973-2799
8/8	11.5	15.24	18.1	8.89	11.43	95001-2881.	473-297
8/8	11.5	15.24	18.1	8.89	11.43	95001-2881	973-2802
Vertical							
4/4	15.7	11.18	15.08	3.81	7.62	95003-2441.	473-303
4/4	15.7	11.18	15.08	3.81	7.62	95003-2441	973-2810
6/4	15.7	13.21	15.08	3.81	10.16	95003-2641	925-2029
6/6	15.7	11.18	15.08	6.35	10.16	95003-2661.	473-315
6/6	15.7	11.18	15.08	6.35	10.16	95003-2661	973-2829
8/8	15.7	15.24	15.08	8.89	11.43	95003-2881.	473-327
8/8	15.7	15.24	15.08	8.89	11.43	95003-2881	973-2837
Bottom Entry							
8/8	12.58	16.75	15.46	8.89	14.2	95002-2883	925-2010

209802

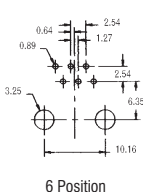
No. of Ways/Contacts	Order Code	1+	10+	50+	100+	+
Low Profile 90°						
4/4	473-273‡	2.22	2.07	1.89	1.38	--
4/4	973-2780●	2.84	2.20	1.76	1.56	--
6/4	NEW 925-2002●	0.88	0.73	0.62	0.48	--
6/6	473-285‡	2.96	2.76	2.55	1.83	--
6/6	973-2799●	2.96	2.31	1.85	1.64	--
8/8	473-297‡	2.96	2.76	2.55	1.83	--
8/8	973-2802●	3.55	2.75	2.20	1.95	--
Vertical						
4/4	473-303‡	2.62	2.43	2.25	1.62	--
4/4	973-2810●	2.84	2.20	1.76	1.56	--
6/4	NEW 925-2029●	0.87	0.73	0.62	0.47	--
6/6	473-315‡	2.84	2.64	2.43	1.77	--
6/6	973-2829●	3.27	2.53	2.03	1.79	--
8/8	473-327‡	3.09	2.88	2.64	1.89	--
8/8	973-2837●	3.55	2.75	2.20	1.95	--
Bottom Entry						
8/8	NEW 925-2010●	1.86	1.69	1.50	1.37	--

Unshielded PCB Sockets

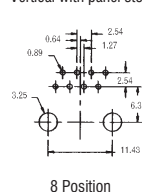
STEWART



4 Position



6 Position



8 Position

- Fully enclosed housings approved to **CSA, UL** recognised and manufactured to **FCC** docket 20780

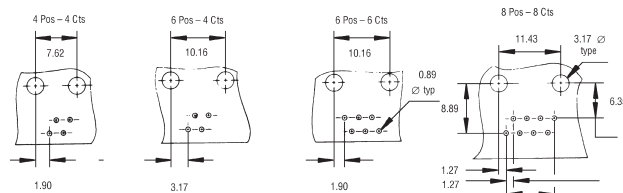
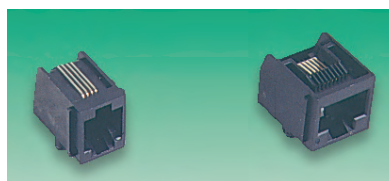
Contact rating	1.5A @ 30V ac/42V dc	Mating cycles	1000
Contact resistance	10mΩ max.	Housing	Black Polyester, UL94V-0
Dielectric strength	1000V rms	Contacts	Phosphor Bronze
Insulation resistance	500MΩ min.	Plating	30μinch gold over 75μinch nickel

No. of Positions	Type	Dimensions (mm)			Mfrs. List No.	Order Code
		H	W	D		
Low Profile 90°						
4	RJ11	12.83	11.3	20.7	SS-6444-NF	113-7972
6	RJ11	12.83	13.84	20.7	SS-6466-NF	113-7973
8	RJ45	12.83	15.37	20.7	SS-6488-NF	113-7974
Vertical						
6	RJ11	16.51	16	16.36	SS-6566-FLS	113-7975
8	RJ45	16.51	18.03	16.36	SS-650810-FLS	113-7976

221426

No. of Positions	Order Code	1+	10+	50+	100+	+
Low Profile 90°						
4	113-7972●	4.08	3.79	3.56	3.18	--
6	113-7973●	5.31	4.91	4.62	3.92	--
8	113-7974●	6.47	5.84	5.49	4.85	--
Vertical						
6	113-7975●	8.14	7.32	6.00	4.49	--
8	113-7976●	7.42	6.71	5.87	4.40	--

Unshielded Flush Mount Panel/PCB Sockets

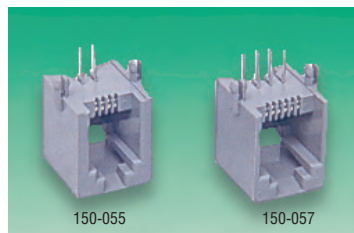


Housing Contacts	Black Polyester UL94V-0 Phosphor BronzeGold	Plating	Level 1 - 30μinch gold Level 2 - 50-60μinch gold	Panel Cut-out	Order Code
Mfrs. List No.	No. of Ways/Contacts	Plating Level	Socket H W D	Panel Cut-out H W	
95009-2441.	4/4	1	11.56 16.38 20.6	16.38 x 11.56	151-584
95009-2441	4/4	1	11.56 16.38 20.6	16.38 x 11.56	973-2055
95009-2641.	6/4	1	13.59 16.38 20.6	16.38 x 11.56	151-585
95009-2641	6/4	1	13.59 16.38 20.6	16.38 x 11.56	973-2063
95009-2661.	6/6	1	13.59 16.38 20.6	16.38 x 11.56	151-586
95009-2661	6/6	1	13.59 16.38 20.6	16.38 x 11.56	973-2071
95009-2881.	8/8	2	15.62 16.38 20.6	16.38 x 11.56	257-102
95009-2881	8/8	2	15.62 16.38 20.6	16.38 x 11.56	973-2535

209680

No. of Ways/Contacts	Order Code	1+	10+	100+	500+
4/4	151-584‡	2.59	2.31	2.04	1.83
4/4	973-2055●	3.30	2.55	2.04	1.81
6/4	151-585‡	2.84	2.52	2.22	2.04
6/4	973-2063●	3.20	2.69	1.74	1.31
6/6	151-586‡	3.03	2.70	2.37	2.16
6/6	973-2071●	3.58	2.78	2.22	1.96
8/8	257-102‡	3.71	3.30	2.91	2.31
8/8	973-2535●	4.55	3.52	2.82	2.49

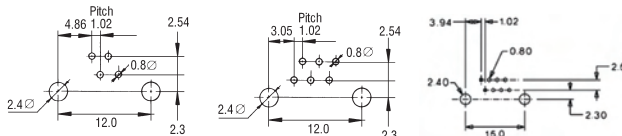
Unshielded Narrow Profile PCB Sockets



H=14.5, W=12.2, D=13.0



H=14.5, W=15.0, D=13.0



Housing Grey Glass filled Polyester UL94V-0
Contact Phosphor Bronze. 4μinch gold plated in contact area, over 40μinch nickel plating.
Solder area dip tinned.

Mfrs. List No.	52018-4415=150-055, 52018-6615=150-057	52018-6415=150-056, 0520188816=1211012
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209681

No. of Ways/ Contacts	Order Code	1+	10+	100+	500+
4/4	150-055▲‡	2.09	1.86	1.65	1.32
4/4	978-6090●	2.42	2.04	1.32	0.99
6/4	150-056▲‡	2.00	1.77	1.59	1.26
6/4	978-6104●	2.30	1.94	1.25	0.94
6/6	150-057▲‡	2.56	2.28	2.01	1.59
6/6	978-6112●	2.95	2.49	1.61	1.21
8/8	121-1012●	4.36	3.94	3.58	3.26

Shielded 8 Way RJ45 Plug



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

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

Mftrs. List No. 95043-2891

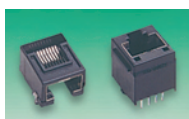
219838

5 Per Pack

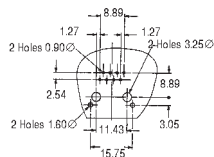
Order Code	1+	5+	20+	50+	+
497-861‡	30.51	27.27	24.00	21.81	--
997-3885	32.61	29.35	26.74	24.46	--

Price Per Pack

Shielded Low Profile 8 Way RJ45 PCB Sockets



Right angle Vertical



- Footprint meets industry standard
- Metal shielding for ESD protection
- Mates with industry standard FCC 68 plugs

Contact rating	1.5A@ 125V	Housing	Polyester, UL94V-0
Contact resistance	20mΩ max	Contacts	Copper alloy
Dielectric strength	1000V ac	Plating	1.3μm Gold over Nickel
Insulation resistance	500MΩ min	Temp range	-40°C to +80°C
Mating cycles	500		

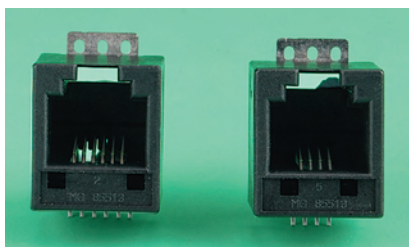
Type	H	W	D	Mftrs List No.	Order Code
Right Angle (Cat 3)	11.5	15.24	18.1	95040-2881.	473-236
Right Angle (Cat 3)	11.5	15.24	18.1	95040-2881	973-2748
Vertical (Cat 3)	16.2	15.24	16.4	95052-2887.	473-248
Vertical (Cat 3)	16.2	15.24	16.4	95052-2887	973-2772
Vertical (Cat 5)	16.2	15.24	16.4	0855070001	925-1979

209800

Type	Order Code	1+	10+	50+	100+
Right Angle - Cat 3	473-236‡	7.11	6.57	6.12	5.10
Right Angle - Cat 3	973-2748●	8.53	6.61	5.29	4.67
Vertical - Cat 3	473-248‡	7.11	6.57	6.12	5.10
Vertical - Cat 3	973-2772●	9.52	7.38	5.90	5.22
Vertical - Cat 5	NEW 925-1979●	4.40	3.68	3.07	2.39

Modular Jacks

SMT, Vertical Low Profile



- 0.10mm (.004") coplanarity
- Recommended PCB thickness 1.57mm (.062")

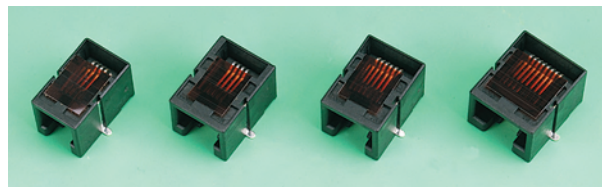
Voltage	125V	Housing	Black Polyamide UL94V-0
Current Rating	1.5	Contacts	Phosphor Bronze
Contact Resistance	20mΩ	Plating	Gold
DWV	1000V	Temperature Range	-40°C to 80°C
Insulation Resistance	500MΩ		

233709

Loaded Circuits	Loaded Circuits	Mftrs. List No.	Order Code	1+	10+	50+	100+
4	4	85513-0016.	385-6239‡	1.77	1.47	1.26	1.14
4	4	85513-0016	973-4201●	2.29	1.93	1.25	0.94
6	6	85513-0014.	385-6240‡	1.89	1.56	1.32	1.23
6	6	85513-0014	973-4210●	2.43	2.05	1.33	0.99
8	8	85513-0013.	385-6264‡	1.92	1.59	1.35	1.26
8	8	85513-0013	973-4228●	2.50	2.10	1.36	1.02

Modular Jacks

SMT, Right Angle Low Profile



- Low profile - 11.5mm high

- 0.10mm coplanarity

Voltage	125V	Housing	Black Polyamide 4/6 UL94V-0
Current Rating	1.5A	Contacts	Phosphor Bronze
Contact Resistance	20mΩ	Plating	Gold
Insulation Resistance	500MΩ	Temperature Range	-40°C to 80°C

232118

Loaded Circuits	Loaded Circuits	Mftrs. List No.	Order Code	1+	10+	50+	100+
4	4	85502-0005.	385-6203‡	1.53	1.26	1.05	0.96
4	4	85502-0005	973-4171●	1.95	1.65	1.08	0.80
6	4	85502-0006.	385-6215‡	1.59	1.32	1.08	1.02
6	4	85502-0006	973-4180●	2.04	1.72	1.11	0.84
6	6	85502-0007.	385-6227‡	1.62	1.35	1.11	1.05
6	6	85502-0007	973-4198●	2.09	1.76	1.14	0.85
8	8	85502-0008	101-2229●	2.15	1.81	1.17	0.88

Modular Jacks

Shielded



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

925-1910

925-1987

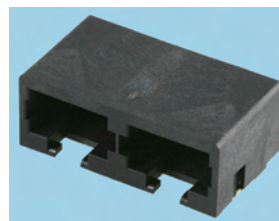
Voltage	125V	Housing	Black Phosphor Bronze UL94V-0
Current Rating	1.5A	Contacts	Phosphor Bronze
Contact Resistance	10mΩ	Plating	Gold
DWV	1000V	Temperature Range	-40°C to 80°C
Insulation Resistance	500MΩ		

233718

Loaded Circuits	Loaded Circuits	Mftrs. List No.	Order Code	1+	10+	100+	500+
Right Angle Standard Profile (Cat3)							
8	8	0446200002 NEW	925-1910●	4.64	3.87	3.23	2.52
Vertical Standard Profile (Cat3)							
8	8	95123-2881.	385-6288‡	2.43	2.01	1.68	1.56
8	8	95123-2881 NEW	973-4236●	2.18	1.96	1.74	1.44
Vertical Low Profile (Cat5)							
8	8	0855080001 NEW	925-1987●	3.53	2.95	2.46	1.92

Double Modular Jack

SMT, Right Angle Low Profile



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

NEW

Voltage	125V	Housing	Black PA Polyamide (Nylon) UL94V-0
Current Rating	1.5	Contacts	Phosphor Bronze
Contact Resistance	10mΩ	Contact Plating	Gold
DWV	1000V	Temperature Range	-40°C to 80°C
Insulation Resistance	500MΩ		

411008

Loaded Circuits	Loaded Circuits	Mftrs. List No.	Order Code	1+	10+	100+	500+
8	8	0441930003	925-1901●	5.84	4.88	4.07	3.17

12

Connectors - Signal & Data

Compliant
Non-compliant
+ Limited stock - RoHS replacement available

RoHS

High Speed Modular Jacks

Flangeless Low Profile



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

NEW

Voltage	125V	Insulation Resistance	500MΩ
Current Rating	1.5A	Contacts	Phosphor Bronze
Contact Resistance	20mΩ	Plating	Gold
DWV	1000V	Temperature Range	-40°C to 80°C

411037

	Loaded Circuits	Circuits	Mftrs. List No.	Order Code	1+	10+	100+	500+
Unshielded								
8	8	0855030001	925-1952	●	2.28	1.91	1.59	1.24
Shielded								
8	8	855050013	925-1960	●	3.29	2.96	2.70	2.47
SMT Shielded								
8	8	0855430001	925-1995	●	4.08	3.41	2.85	2.22

Inverted Modular Jack

Low Profile



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

NEW

Voltage	125V	Housing	Black PA Polyamide (Nylon) UL94V-0
Current Rating	1.5	Contacts	Phosphor Bronze
Contact Resistance	10mΩ	Contact Plating	Gold
DWV	1000V	Temperature Range	-40°C to 80°C
Insulation Resistance	500MΩ		

411086

	Loaded Circuits	Circuits	Mftrs. List No.	Order Code	1+	10+	100+	500+
8	8	0438600001	925-1898	●	2.13	1.78	1.49	1.16

Integrated Connector Modules (ICMs)

10/100 Base



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

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

SI-10021

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

SI-20039

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

SI-40138

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

SI-50001

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

SI-70002

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

249011

Mftrs. List No.	Order Code	1+	10+	50+	100+
SI-10021	113-7981 ●	11.56	10.30	9.95	9.63
SI-20039	113-7982 ●	7.29	6.52	6.29	6.07
SI-40138	113-7983 ●	13.10	11.68	11.30	10.91
SI-50001	113-7984 ●	14.77	13.19	12.71	12.29
SI-70002	113-7985 ●	14.41	12.87	12.42	12.01

Unshielded, Vertical PCB Sockets



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

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

Current rating	2 amp dc	Contact Plating	Gold over Nickel
Withstanding voltage	1000 kV rms, 60Hz	Contact Spring	Phosphor Bronze
Insulation resistance	500M Ohms min	Body material	Thermoplastic resin(UL94V-0)
Contact resistance	20m Ohm max	Durability	250 cycles

221506

Number of Ways/Contacts	Mftrs. List No.	Order Code	1+	10+	50+	100+	+
Vertical Jack - Diamond Peg							
4/4	69253-001	153-084 ▲	1.13	1.02	0.87	0.69	--
4/4	69253-001LF	109-7907 ●	1.21	1.09	0.93	0.74	--
6/6	69254-001	153-096 ▲	1.75	1.50	1.32	1.05	--
6/6	69254-001LF	109-7909 ●	1.87	1.61	1.41	1.12	--
6/4	69254-002	153-102 ▲	1.13	1.02	0.87	0.69	--
6/4	69254-002LF	109-7911 ●	1.21	1.09	0.93	0.74	--
8/8	69255-001	153-114 ▲	2.34	2.04	1.77	1.41	--
8/8	69255-001LF	109-7912 ●	2.50	2.18	1.89	1.51	--
Vertical Jack - Snap Peg							
4/4	90511-001	153-126 ▲	1.13	1.02	0.87	0.69	--
4/4	90511-001LF	109-7913 ●	1.21	1.09	0.93	0.74	--
6/6	90512-001	153-138 ▲	1.75	1.50	1.32	1.05	--
6/6	90512-001LF	109-7914 ●	1.87	1.61	1.41	1.12	--
6/4	90512-003	153-140 ▲	1.13	1.02	0.87	0.69	--
6/4	90512-003LF	109-7915 ●	0.55	--	--	--	--
8/8	90598-001	153-151 ▲	2.34	2.04	1.77	1.41	--
8/8	90598-001LF	109-7916 ●	2.50	2.18	1.89	1.51	--

Unshielded, Horizontal PCB Sockets



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

- FCC approved GXT[®] plating

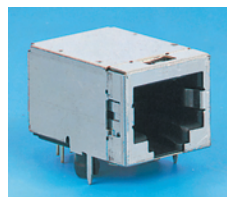
Current rating	2 amp dc	Contact Plating (Finish)	Gold over Nickel
Withstanding voltage	1000 volts rms, 60Hz	Contact Spring	Phosphor Bronze
Insulation resistance	500 Ohms min	Body material	Thermoplastic Resin
Contact resistance	20 Ohm max	Durability	Black 250 cycles
Electrical performance meets or exceeds EIA/TIA 568A specifications			

221505

No. of Ways/ Contacts	Mftrs. List No.	Order Code	1+	10+	50+	100+	+
Horizontal Low Profile Jack - Snap Peg							
4/4	87180-044	153-000 ▲	1.26	1.08	0.93	0.75	--
4/4	87180-044LF	109-7902 ●	1.35	1.16	1.00	0.80	--
6/4	87180-064	153-011 ▲	1.26	1.08	0.93	0.75	--
6/4	87180-064LF	109-7903 ●	1.35	1.16	1.00	0.80	--
6/6	87180-066	153-023 ▲	1.84	1.59	1.38	1.11	--
6/6	87180-066LF	109-7904 ●	1.97	1.70	1.48	1.19	--
8/8	87180-088	153-035 ▲	2.43	2.13	1.86	1.47	--
8/8	87180-088LF	109-7905 ●	2.60	2.28	1.99	1.57	--
6/6	68898-001LF	109-7906 ●	2.20	1.93	1.64	1.35	--

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

Shielded Filtered Gang Jack



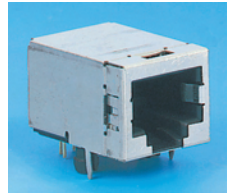
- UL Recognised and CSA approved
- FCC compliant - part 68, subpart f
- Horizontal RJ-45 style
- Shielded, unshielded, filtered and Category 5 versions available
- Available with 1 or 8 ports
- Drawn wire contacts
- Meets industry standard jack-to-board footprints
- According to the EIA/TIA 568, TSB 31, 40 specifications
- FCC approved GXT[®] plating

Current rating	2 amp dc	EIA/TIA 568A specifications	Gold over Nickel
Withstanding voltage	60 volts rms, 60Hz	Contact Plating (Finish)	Phosphor Bronze
Insulation resistance	500 Ohms min	Contact Spring	Thermoplastic Resin
		Body material	Black
Contact resistance	20 Ohm max	Durability	250 cycles
Electrical performance meets or exceeds			

221504

Number of Ports	Mfrs. List No.	Order Code	1+	10+	50+	100+	+
Shielded Filtered Gang Jack - Snap Peg							
1	95672-001LF	121-1641	11.29	9.86	8.56	7.68	--
8	95672-008-00	152-948	38.31	33.42	28.92	23.13	--

Cat. 5 Shielded Gang Jack



- UL Recognised and CSA approved
- FCC compliant - part 68, subpart f
- Horizontal RJ-45 style
- Shielded, unshielded, filtered and Category 5 versions available
- Available with 1 or 4 ports
- Drawn wire contacts
- Meets industry standard jack-to-board footprints

- According to the EIA/TIA 568, TSB 31, 40 specifications
- FCC approved GXT[®] plating

Current rating	2 amp dc	EIA/TIA 568A specifications	Gold over Nickel
Withstanding voltage	60 volts rms, 60Hz	Contact Plating (Finish)	Phosphor Bronze
Insulation resistance	500 Ohms min	Contact Spring	Thermoplastic Resin
		Body material	Black
Contact resistance	20 Ohm max	Durability	250 cycles
Electrical performance meets or exceeds			

221502

No. of Ports	Mfrs. List No.	Order Code	1+	10+	50+	100+	+
Cat. 5 Shielded Gang Jack - Snap Peg							
1	95678-001	152-950	5.21	4.53	3.93	3.12	--
1	95678-001LF	109-7900	5.57	4.85	4.21	3.34	--
4	95678-004-00	152-973	13.14	11.43	9.90	7.89	--
4	95678-004-00LF	109-7901	14.06	12.23	10.59	8.44	--

RJ45 Shielded Modular Jack
Inverted

- Fully shielded, inverted RJ45 Jack
- 8 position, 8 contacts
- Meets FCC Rules and Regulations, Part 68
- UL Recognised and CSA Certified

Contact Rating	150V ac max., 1.5A @ 25°C	Material	High temperature thermoplastic
Withstand Voltage	1000V ac	Body	UL94V-0
Insulation Resistance	500MR	Flamability	Phosphor Bronze
Durability	750 mating cycles	Contact	Gold over Nickel
Temperature Range	-40°C to 70°C	Contact Plating	

334975/406727

Mfrs. List No.	Order Code	1+	10+	50+	100+
406541-1	473-9516	4.88	4.33	3.91	3.55
1-406541-1	116-2481	5.86	5.37	4.88	4.72

RJ45 Shielded Modular Jack
Inverted with LED's

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

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

Contact Rating	150V ac max., 1.5A @ 25°C	Material	High temperature thermoplastic
Withstand Voltage	1000V ac	Body	UL94V-0
Insulation Resistance	500MR	Flamability	Phosphor Bronze
Durability	750 mating cycles	Contact	Gold over Nickel
Temperature Range	-40°C to 70°C	Contact Plating	

334973/406728

Colour LED's	Mfrs. List No.	Order Code	1+	10+	50+	100+
Yellow/Green	406549-1	473-9528	6.61	5.86	5.27	4.82
Yellow/Green	2-406549-1	116-2483	6.61	5.86	5.27	4.82

RJ45 Shielded Stacked
Cat5, PCB Mounted Jacks

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

Voltage Rating	150V ac max.	Material	Polyester PCT
Current Rating	1.5A max. @ 25°C	Housing	UL94V-0
Withstand Voltage	1000V ac	Flamability	Copper alloy, tin-lead plated
Insulation Resistance	500MR min.	Shield	Phosphor Bronze
Durability	750 mating cycles	Contact	Gold over Nickel
Temperature Range	-40°C to 70°C	Contact Plating	

334971/406729

Configuration	Mfrs. List No.	Order Code	1+	10+	50+	100+
2 x 2	569260-1	473-9541	28.48	25.32	22.78	20.73
2 x 2	5569260-1	116-2484	28.48	25.32	22.78	20.73
2 x 4	569262-1	473-9553	38.31	34.08	30.66	27.86
2 x 4	5569262-1	116-2485	38.31	34.08	30.66	27.86

RJ45 Ethernet Connector System

Cat 5e Ethernet Buccaneer



IP68 Sealed

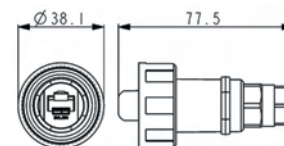
The Ethernet Buccaneer provides a high degree of environmental sealing for Cat 5e Ethernet connections using standard RJ45s. Dust and waterproof to IP68 the Ethernet Buccaneer is ideal for industrial applications where a robust and secure connection is required.

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

Sealing	IP68 EN60529 (When mated)
Flammability	UL94V-0
Operating Temps	-20°C To 70°C
Patch cords	Cat 5e
TIA/EIA Rating	
Sheath	5.6mm
Diameter	100Ω ±15Ω at 4MHz to 100MHz
Characteristic Impedance	1600pF/km
Capacitance	-25°C to +60°C
Operating Temp	

248485

Re-wireable Flex Cable Connector



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

248500

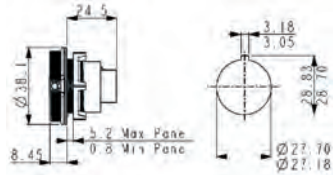
Mfrs. List No.	Order Code	1+	25+	50+
PX0834/B	428-5864	32.71	30.08	24.85
PX0834/B	966-7733	32.71	30.08	24.85

12

Connectors - Signal & Data

Compliant
Non-compliant
RoHS

Panel Mount Connector



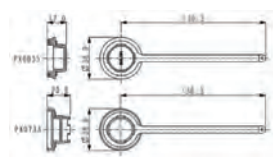
- Cat 5e shielded coupler
- For use with Ethernet Buccaneer flex connectors
- Standard patchcord can be plugged into rear

- Single hole fixing
- Complete with panel sealing gasket

248534

Mfrs. List No.	Order Code	1 +	25 +	50 +
PX0833.	428-5852	66.77	59.42	49.40
PX0833	966-7725	66.77	59.42	49.40

Sealing Caps



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

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

248535

	Price Each		
Order Code	1 +	25 +	50 +
428-5876 ●	3.12	2.84	2.36
314-390 ●	2.02	1.85	1.74

Signal & Data Tools

PC Connector and Cable Tester



Local tester for most PC connectors including D-Sub, Coax, RJ11/RJ45 and USB.

- Easy to read LED Display
- Tests USB A to USB B
- Test continuity of male and female 9,15,15HD and 25 pin D-Sub cables
- Tests continuity of 36 pin Centronics, RJ11, RJ12, RJ45 and 50Ω/75Ω coax cables
- 9V Battery included

Weight	630g
Dimensions	239mm x 137mm x 40mm
Output signal	8V DC @ 10ma

238281

Mfrs. List No.	Order Code	Price Each 1+
1570	394-5315	366.36

DataReady Kit



A complete Cat5 datacomm tool set in a handy zipper case.

Kit includes:

- All in one telephone tool for RJ45 and RJ11
- Impact punch-down tool with 110 and 66 blades
- AM12 cutter/stripper for unshielded and shielded cable
- Patch-Check continuity tester
- Category 5 RJ45 connectors (x20)
- Zipper case with carrying strap and complete instructions

232159

Desc	Mfrs. List No.	Order Code	Price Each
DataReady Kit	901053	388-8320	1 + 385.80

DataReady Pro Kit

Data cable installation kit



A complete data cable installation kit providing everything for cutting, stripping, crimping, terminating and testing data cables and modular plug cable systems. Contains:

- CrimpALL interchangeable die set crimper frame
- Die sets for RJ45 WE/SS, RJ11, RJ12 WE/SS, RJ22, RJ45 AMP, RJ11 DEC-MMJ
- AM12 twisted pair (UTP/STP) cutter /stripper
- PDT punchdown tool with 110 and 66 blades
- LAN ProNavigator tester with remote
- Operating and instruction manual

238283

Mftrs. List No.	Order Code	Price Each
901378	396-5764	809.37

DIN41612 Selection Chart

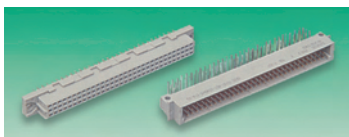
Contact Rating	Body Style	No. of Ways	Contact Arrangement	Comments
2A @ 250Vac/dc	B	32		2 row body
		32		
		64		
	1/2B	16		Half length 'B' body
		32		
	C	32		3 row body
		64		
		96		
	1/2C	32		Half length 'C' body
		48		
6A @ 125Vac/dc	D	32		
	F	48		
15A @ 500Vac/dc	H	15		
6A @ 125Vac/dc 15A @ 500Vac/dc	MH	24+7		Mixed contact bodies
Signal 3A @ 350V ac/dc Power 10A Coax 50Ω	M	42+6		
		60+4		
		78+2		

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	Rows Loaded	Order Code	1+	10+	50+	100+	+
3 Row 'C' Body							
64	a+c	798-9121	9.64	8.88	7.89	7.13	--
96	a+b+c	798-9130	13.41	12.29	10.98	9.90	--
Price Per Pack							
Class 3 (5 Per Pack)			1+	5+	20+	100+	+
2 Row 'B' Body							
64	a+b	798-9156	40.40	36.65	34.71	32.98	--

CECC Approved

tyco Electronics AMP

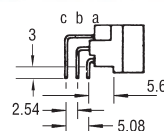
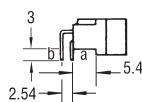


	Class 1	Class 2	Class 3
Mating cycles	500	400	400
Industrial atmospheres	21	21	—
Contact rating	1.5A @ 85°C	Insertion/ extraction force	96 contacts ≤ 90N/≥ 15N
Contact resistance	20mΩ max		64 contacts ≤ 60N/≥ 10N
Insulation resistance	100MΩ min.		32 contacts ≤ 17N
Test voltage between contacts	1000V	Housing Colour	Polyester, UL94V-0
contacts and earth	1500V	Contact material	Female Phosphor Bronze
Temperature range	-55°C to +125°C	Contact plating	Male Brass
		Termination	Gold over Palladium over Nickel
			Tin/lead alloy

209772

90° PCB Plugs 'B' and 'C' Body

tyco Electronics AMP



PCB hole dia.=1±0.1, PCB mounting hole=2.5 dia x 88.9, Pin spacing=2.54

Mfrs. List No.	V42254-B1100-B640=112-2920	V42254-B1200-B640=112-2923
	V42254-B1100-C963=112-2921	V42254-B1200-C968=112-2924
	V42254-B1100-C960=112-2922	V42254-B1200-C963=112-2925
	V42254-B1200-B641=269-840	V42254-B1200-C960=112-2926

209773

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	+
Class 1							
2 Row 'B' Body							
64	a+b	112-2920	7.54	6.78	5.27	3.77	--
3 Row 'C' Body							
64	a+c	112-2921	7.62	6.86	5.33	3.81	--
96	a+b+c	112-2922	9.68	8.71	6.78	4.84	--
Class 2							
2 Row 'B' Body							
32	a	269-840	5.99	5.37	4.17	3.33	--
64	a+b	112-2923	4.07	3.66	2.85	2.04	--
3 Row 'C' Body							
32	a+c (Even)	112-2924	5.17	4.65	3.62	2.59	--
64	a+c	112-2925	5.24	4.83	3.75	2.68	--
96	a+b+c	112-2926	6.11	5.49	4.27	3.05	--

PCB Sockets 'B' and 'C' Body

tyco Electronics AMP



PCB hole dia.=1 0.1. PCB mounting hole=2.8 dia x 78.74, Pin spacing=2.54

Mfrs. List No.	V42254-B2102-B640=112-2928	V42254-B2202-C968=112-2931
	V42254-B2102-C963=112-2929	V42254-B2202-C963=112-2932
	V42254-B2102-C960=112-2930	V42254-B2202-C960=112-2933

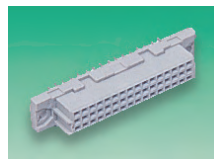
209774

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	+
Class 1							
2 Row 'B' Body							
64	a+b	112-2928	9.59	8.63	6.71	4.79	--
3 Row 'C' Body							
64	a+c	112-2929	12.54	11.50	8.94	6.39	--
96	a+b+c	112-2930	16.32	14.68	11.42	8.16	--

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	+
Class 2							
3 Row 'C' Body							
32	a+c	112-2931	9.20	8.28	6.44	4.60	--
64	a+c (Even)	112-2932	7.38	6.64	5.16	3.69	--
96	a+b+c	112-2933	7.93	7.14	5.55	3.97	--

Half Size 'B' and 'C' Body PCB Sockets

tyco Electronics AMP



PCB hole dia.=1 0.1. PCB mounting hole=2.8 dia.x48.26, Pin spacing=2.54

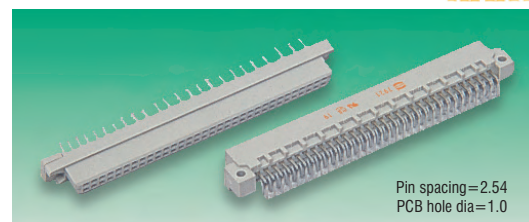
Mfrs. List No.	V42254-B2200-B321=112-2937	V42254-B2202-C483=112-2941
	V42254-B2202-B320=112-2938	V42254-B2200-C480=112-2942

209776

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	+
Class 2							
2 Row 'B/2' Body							
16	a	112-2937	7.10	6.39	4.97	3.55	--
32	a+b	112-2938	8.28	7.45	5.79	4.14	--
3 Row 'C/2' Body							
32	a+c	112-2941	8.00	7.20	5.60	4.00	--
48	a+b+c	112-2942	8.53	7.67	5.97	4.26	--

Gds A Series DIN41612 Class 3

HARTING

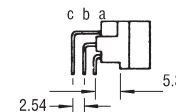
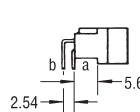
Pin spacing=2.54
PCB hole dia=1.0

Contact rating (individual contact in isolation)	2A @ 20°C	Insertion & extraction force	96 contacts ≈ 90N
Contact resistance	15mΩ max.		64 contacts ≤ 60N
Working voltage	250V dc/ac peak	Housing Colour	32 contacts ≤ 30N
Insulation resistance	≥ 10 ¹² Ω max.	Polyester, UL94V-0	
Test voltage	1000V rms	Contacts	Pebble grey (RAL7032)
Temperature range	-65°C to +125°C	Terminals	Brass, Gold over Nickel plating
Mating cycles	50, no gas test		Tinned

209683

90° PCB Plugs

HARTING

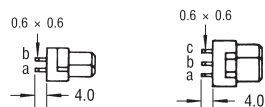


Mfrs. List No.	0903 164 7921 = 104-983	0903 164 7921 = 109-6831	0903 196 7921 = 109-6832
	0902 132 7931. = 104-983	0902 164 7921. = 104-984	0903 132 7921. = 150-158
	0902 132 7931 = 110-6718	0902 164 7921 = 109-6830	0903 132 7921 = 109-6838
	0903 164 7921. = 104-985	0903 196 7921. = 104-986	

209684

No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	+
2 Row 'B' Body							
32	a	104-983	3.43	3.08	2.99	2.79	--
32	a	110-6718	3.43	3.08	2.99	2.79	--
64	a+b	104-984	5.07	4.56	4.33	4.11	--
64	a+b	109-6830	5.07	4.56	4.33	4.11	--
3 Row 'C' Body							
32	a+c (even)	150-158	4.74	4.14	3.69	2.82	--
32	a+c (even)	109-6838	4.74	4.14	3.69	2.82	--
64	a+c	104-985	5.07	4.56	4.30	4.11	--
64	a+c	109-6831	5.07	4.56	4.30	4.11	--
96	a+b+c	104-986	6.56	6.23	6.20	5.84	--
96	a+b+c	109-6832	6.56	6.23	6.20	5.84	--

PCB Sockets

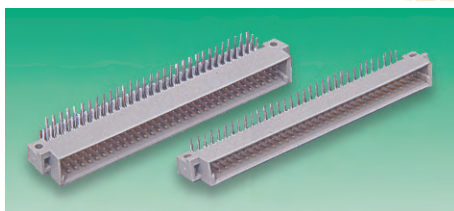


Mfrs. List No 0903 232 7825 = 109-6839 0903 264 7825 = 109-6833 0903 296 7825 = 109-6834

209685

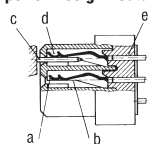
No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	+	+
3 Row 'C' Body								
32	a+c (even)	109-6839	6.81	6.00	5.30	4.11	--	--
64	a+c	109-6833	7.04	6.69	6.36	6.03	--	--
96	a+b+c	109-6834	8.51	7.82	7.51	--	--	--

Gds A Series DIN41612 Class 2



A range of connectors manufactured to the specifications of DIN41612 Part 1, BS9525, VG and BT222 requirements.

Superior Design Features



Mating reliability

- a) Contact design prevents incorrect mating
- b) Moulded shoulder pre-loads contact springs
- c) Electro-polished male contact minimises insertion forces
- d) Sequential contact mating reducing insertion forces
- e) Force fit staking ensures firmly held contacts and prevents ingress

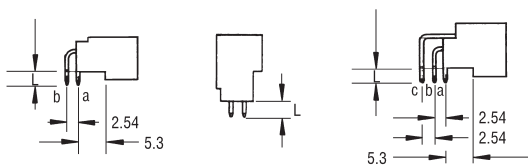
Dual Cantilever Single Sided Contact Providing

- Reduced insertion forces
- Added reliability
- Improved vibration resistance

Body material Glass filled polyester, UL94V-0
 Mating force $\approx 90\text{N}$
 Vibration resistance to VG95324 / DIN53480 / IEC112
 Creepage resistance VG95324 / DIN53480 / IEC112 Polyester K225
 Chemically resistant to Trichloroethylene, carbon tetrachloride, petrol, ethanol and menthanol
 Temperature range -65°C to $+125^{\circ}\text{C}$. Short term $+220^{\circ}\text{C}$ suitable for vapourphase soldering
 Electrical specifications quoted on individual devices

209687

PCB and Wire Wrap Plug



Pin spacing=2.54, PCB hole dia.=1.0

Contact rating	2A @ 20°C	Contact material	Mating cycles	Copper alloy, Gold plating
Working voltage	250 V ac/dc			400
Mfrs. List No				
0902 132 6931 = 114-2808	0903 164 6921 = 316-040	0903 196 6921 = 109-6905		
0903 132 6921 = 316-039	0903 164 6921 = 109-6903	0903 196 6922 = 413-1575		
0903 132 6921 = 109-6902	0902 164 6922 = 109-6901	0903 196 6922 = 109-7072		
0902 164 6921 = 316-015	0902 164 6922 = 316-027	0903 164 6922 = 413-1587		
0902 164 6921 = 109-6900	0903 196 6921 = 316-052	0903 164 6922 = 109-7073		

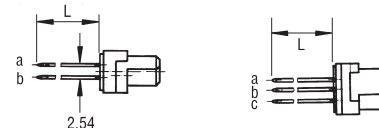
209688

No. of Ways	Rows Loaded	Pin Length 'L'	Order Code	1+	10+	50+	100+	+
2 Row 'B' Body 90° PCB Pins								
32	a	3	114-2808	5.78	5.07	4.49	3.98	--
64	a+b	3	316-015	7.01	6.16	5.49	4.46	--
64	a+b	3	109-6900	7.01	6.16	5.49	4.46	--
2 Row 'B' Body PCB Pins								
64	a+b	3	316-027	9.89	8.70	7.74	6.36	--
64	a+b	3	109-6901	9.89	8.70	7.74	6.36	--
3 Row 'C' Body 90° PCB Pins								
32	a+c (even)	3	316-039	5.78	5.07	4.49	3.69	--
32	a+c (even)	3	109-6902	5.78	5.07	4.49	3.69	--
64	a+c	3	316-040	6.61	6.16	5.46	4.72	--
64	a+c	3	109-6903	6.61	6.16	5.46	4.72	--
96	a+b+c	3	316-052	8.11	7.70	7.42	6.36	--
96	a+b+c	3	109-6905	8.11	7.70	7.42	6.36	--

HARTING

No. of Ways	Rows Loaded	Pin Length 'L'	Order Code	1+	10+	50+	100+	+
3 Row 'C' Body Straight PCB Pins								
96	a+b+c	3	413-1575	10.79	9.69	9.15	8.09	--
96	a+b+c	3	109-7072	10.79	9.69	9.15	8.09	--
64	a+c	3	413-1587	7.22	6.48	6.10	5.39	--
64	a+b+c	3	109-7073	7.22	6.48	6.10	5.39	--

PCB and Wire Wrap Sockets



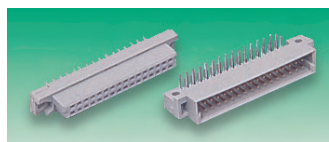
Pin spacing=2.54 (except 'C' body 32 way=5.08), PCB hole dia=1.0

Contact rating	2A @ 20°C	Contact material	Phosphor Bronze, Gold plating
Working voltage	250 V ac/dc	Mating cycles	400
Mfrs. List No			
0902 264 6824 = 316-090	0902 264 6825 = 316-106	0902 264 6825 = 109-6907	0903 264 6825 = 109-6909
0902 264 6824 = 109-6906	0903 296 6825 = 316-155	0903 296 6825 = 109-6910	0902 264 6821 = 316-120
0903 232 6825 = 316-131	0903 264 6825 = 316-143		0902 264 6821 = 110-6771
0903 232 6825 = 109-6908			0903 264 6821 = 316-179
			0903 264 6821 = 109-6911

209689

No. of Ways	Rows Loaded	Pin Length 'L'	Order Code	1+	10+	50+	100+	+
2 Row 'B' Body PCB Pins								
64	a+b	2.5	316-090	10.38	9.14	8.09	6.68	--
64	a+b	2.5	109-6906	10.38	9.14	8.09	6.68	--
64	a+b	4	316-106	9.89	8.70	7.70	6.36	--
64	a+b	4	109-6907	9.89	8.70	7.70	6.36	--
2 Row 'B' Body PCB Pins								
64	a+b	13	316-120	10.28	9.08	8.09	7.06	--
64	a+b	13	110-6771	10.28	9.08	8.09	7.06	--
3 Row 'C' PCB Pins								
32	a+c (even)	4	316-131	7.68	6.71	5.97	4.91	--
32	a+c (even)	4	109-6908	7.68	6.71	5.97	4.91	--
64	a+c	4	316-143	8.43	8.01	7.70	6.71	--
64	a+c	4	109-6909	8.43	8.01	7.70	6.71	--
96	a+b+c	4	316-155	14.25	12.52	11.11	9.66	--
96	a+b+c	4	109-6910	14.25	12.52	11.11	9.66	--
3 Row 'C' PCB Pins								
64	a+c	13	316-179	10.27	9.08	8.09	6.81	--
64	a+c	13	109-6911	10.27	9.08	8.09	6.81	--

Half Size 2 Row 'B' Body



Contact rating 2A @ 20°C
 Working voltage 250 V ac/dc
 Contact material Copper alloy, Gold plating
 Mating cycles 400

Mfrs. List No
 0922 116 6931 = 114-2809
 0922 132 6921 = 316-209
 0922 132 6921 = 109-6912
 0922 132 6825 = 316-222
 0922 232 6825 = 110-6772

209690

No. of Ways	Rows Loaded	Pin Length 'L'	Order Code	1+	10+	50+	100+	+
Plugs 90° PCB Solder Pin								
16	a	3	114-2809	4.27	3.79	3.31	2.73	--
32	a+b	3	316-209	7.28	6.55	5.84	5.17	--
32	a+b	3	109-6912	7.28	6.55	5.84	5.17	--
Socket								
32	a+b	4	316-222	8.74	8.02	6.87	6.20	--
32	a+b	4	110-6772	8.74	8.02	6.87	6.20	--

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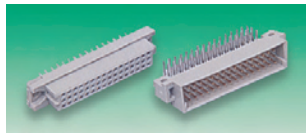
The very latest NEW products

12

Connectors - Signal & Data

Compliant
 Non-compliant
 Limited stock - RoHS replacement available
RoHS

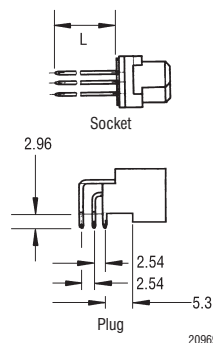
Half Size 3 Row 'C' Body



Contact rating 2A @ 20°C
Working voltage 250 V ac/dc
Contact material Copper alloy, Gold plating
Mating cycles 400

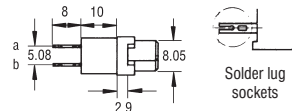
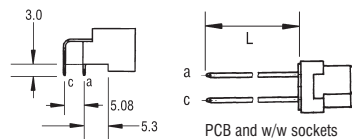
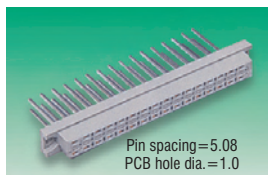
Mfrs. List No 0923 148 6921 = 109-6914
0923 132 6921 = 316-246 0923 248 6825 = 316-271
0923 132 6921 = 109-6913 0923 248 6825 = 109-6915
0923 148 6921 = 316-258

HARTING



209691

No. of Ways	Rows Loaded	Pin Length 'L'	Order Code	1+	10+	50+	100+	+
90° PCB Solder Pin								
32	a+c	2.96	316-246‡	5.94	5.20	4.65	3.56	--
48	a+b+c	2.96	316-258‡	6.68	5.87	5.23	4.27	--
Straight PCB Solder Pin								
48	a+b+c	4	316-271‡	9.78	8.60	7.61	6.29	--

'D' Body Plug and Sockets
32 Way, Rows a+c Loaded

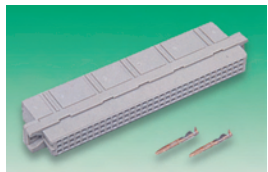
Contact rating 6A @ 20°C
Working voltage 125 V ac/dc
Housing Polyester
Contact material Copper alloy, Gold plating
Mating cycles 400

Mfrs. List No 0904 232 6823 = 151-652 0904 232 6821 = 240-023
0904 132 6921 = 316-301 0904 232 6831 = 316-313 0904 232 6821 = 109-6880
0904 132 6921 = 109-6917 0904 232 6823 = 109-6872

209692

Pin Length 'L'	Order Code	1+	10+	50+	100+	+
Plugs						
90° PCB pins	3	316-301‡	11.09	9.98	9.69	8.89 --
90° PCB pins	3	109-6917●	11.09	9.98	9.69	8.89 --
Socket						
PCB pins	4	316-313	19.97	17.85	17.46	16.05 --
PCB pins	4	110-6773●	19.97	17.85	17.46	16.05 --
Solder lugs	8	151-652‡	13.86	12.20	10.82	8.89 --
Wire wrap pins	8	109-6872●	13.86	12.20	10.82	8.89 --
Wire wrap pins	20	240-023‡	17.32	15.63	15.25	13.90 --
Wire wrap pins	20	109-6880●	17.32	15.63	15.25	13.90 --

Crimp Contact Socket Housings



Contact rating B+C 2A @ 20°C
D+F 6A @ 20°C
Working voltage B+C 250 V ac/dc
D+F 125V ac/dc
Housing Polycarbonate (B, C and D)
Polycarbonate (F)
Contact material Copper alloy, Gold plating
Mating cycles 400

Housing & Contacts
'B'+ 'C'
'D'+ 'F'
'D'+ 'F'

(A)
0.14—0.5mm₂
0.14—0.5mm₂
0.5—1.5mm₂

Crimp Tool
466-3688
466-3688
466-3688

Mfrs. List No 0906 000 6432 92 = 463-115 0902 000 8474 = 109-6945
0902 064 3214 = 316-337 0906 000 6432 = 109-6947 0904 032 3213 = 316-350
0902 064 3214 = 110-6774 0903 096 3214 = 316-349 0904 032 3213 = 109-6919
0906 248 3201 = 413-1617 0903 096 3214 = 109-6918 0906 000 6431 92 = 463-103
0906 248 3201 = 109-7077 0902 000 8474 92 = 463-097 0906 000 6431 = 109-6946

No. of Ways	Rows Loaded	Order Code	1+	10+	Price Each 50+	100+	+
Socket Housings							
'B'	64	a+b	316-337	13.59	11.75	9.85	7.54 --
'B'	64	a+b	110-6774●	13.59	11.75	9.85	7.54 --
'C'	96	a+b+c	316-349‡	11.05	9.69	8.60	7.03 --
'C'	96	a+b+c	109-6918●	11.05	9.69	8.60	7.03 --
'D'	32	a+c	316-350‡	12.31	11.22	9.03	7.21 --
'D'	32	a+c	109-6919●	12.31	11.22	9.03	7.21 --
'F'	48	d+b+z	413-1617‡	6.00	5.39	5.10	4.49 --
'F'	48	d+b+z	109-7077●	6.00	5.39	5.10	4.49 --

209693

Contacts (100 Per Pack)	Size	Order Code	1+	5+	10+	25+	+
'B'+ 'C'	0.14 - 0.5mm ²	463-097‡	69.77	60.22	50.40	38.62	--
'B'+ 'C'	0.14 - 0.5mm ²	109-6945●	69.77	60.22	50.40	38.62	--
'D'+ 'F'	0.14 - 0.5mm ²	463-103‡	100.40	86.72	72.57	55.61	--
'D'+ 'F'	0.14 - 0.5mm ²	109-6946●	100.40	86.72	72.57	55.61	--
'D'+ 'F'	0.5 - 1.5mm ²	463-115‡	100.40	86.72	72.57	55.61	--
'D'+ 'F'	0.14 - 0.5mm ²	109-6947●	100.40	86.72	72.57	55.61	--

Tooling for Crimp Contacts

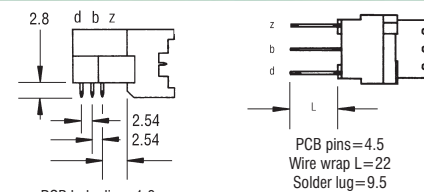
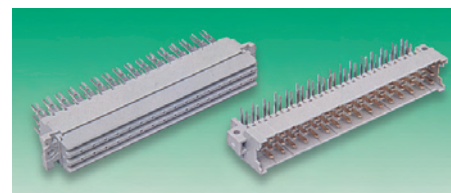


337966

	Mfrs. List No.	Order Code	Price Each 1+
Crimp Tool			
B+C and D+F	09 99 000 0620	466-3688	374.32
Crimp Set Including crimp insert and locator			
B+C	09 99 000 0621	466-3690	234.36
D+F 0.14 ² - 0.56mm ²	09 99 000 0622	466-3706	234.36
D+F 0.50 ² - 1.50mm ²	09 99 000 0623	466-3718	227.85
Contact Removal Tools			
B+C	0999 000 0101	316-477	15.06
D+F	0999 000 0087	316-489	13.39

'F' Body Plug and Sockets
48 Way, Rows d+b+z Loaded

HARTING



Contact rating 6A @ 20°C
Working voltage 125 V ac/dc
Contact material Copper alloy, Gold plating
Mating cycles 400

0906 248 6835 = 316-490 0906 000 8471 = 413-1629
0906 148 6901 = 152-426 0906 248 6821 = 316-519 0906 000 8471 = 109-7078
0906 148 6901 = 109-6873 0906 248 6821 = 109-6921 0906 000 8472 = 413-1630
0906 248 6823 = 316-507 0906 248 3201 = 413-1617 0906 000 8472 = 109-7079
0906 248 6823 = 109-6920 0906 248 3201 = 109-7077

209695

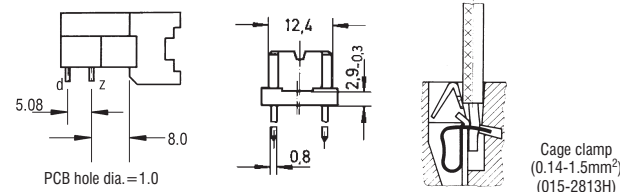
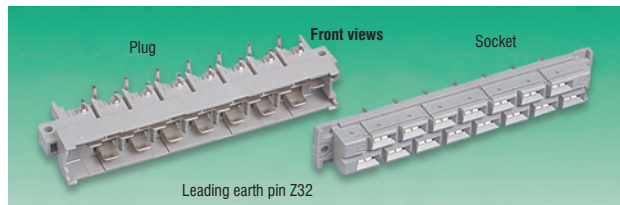
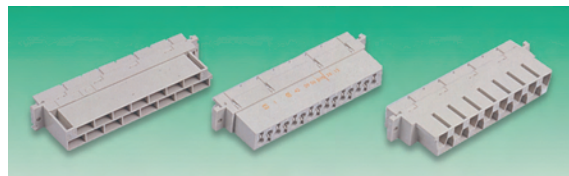
	Order Code	1+	10+	Price Each 50+	100+	+
Plugs						
90° PCB pins	152-426‡	13.95	12.62	12.29	11.17	--
90° PCB pins	109-6873●	13.95	12.62	12.29	11.17	--
Socket						
PCB pins	316-490	14.76	13.35	13.00	11.81	--
PCB pins	110-6775●	14.76	13.35	13.00	11.81	--
Solder lugs	316-507‡	18.09	16.40	15.95	14.51	--
Wire wrap pins	109-6920●	18.09	16.40	15.95	14.51	--
Wire wrap pins	316-519‡	18.09	16.37	15.92	14.48	--
Wire wrap pins	109-6921●	18.09	16.37	15.92	14.48	--
Crimp Housing	413-1617‡	6.00	5.39	5.10	4.49	--
Wire wrap pins	109-7077●	6.00	5.39	5.10	4.49	--

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

		Price Each				
Order Code		10+	50+	100+	500+	+
Order Multiple=10						
Crimp Contacts						
0.14mm-0.56mm	413-1629 ‡	0.60	0.57	0.52	0.46	--
0.14mm-0.56mm	109-7078 ●	0.60	0.57	0.52	0.46	--
0.5mm-1.5mm	413-1630 ‡	0.60	0.57	0.52	0.46	--
0.14mm-0.56mm	109-7079 ●	0.60	0.57	0.52	0.46	--

'H' Body Plugs and Sockets

15 Way, Rows d+z Loaded

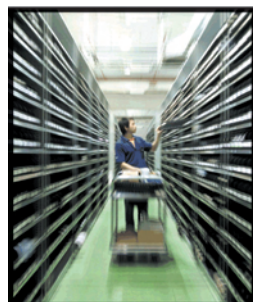
HARTING**Socket rear views**

Horizontal faston terminals (6.3 x 0.8)	Cage clamp terminals	Vertical faston terminals (6.3 x 0.8)
Contact rating 15A @ 20°C	Contact material Polyester (0906 015 Series)	Copper alloy, Silver plating
Working voltage 500 V ac/dc		
Housing Polyester (0906 115/215 Series)		
Mfrs. List No	0906 015 2931. = 316-520	0906 215 2871. = 240-011
0906 115 2932. = 151-651	0906 015 2931 = 109-6922	0906 215 2871 = 109-6879
0906 115 2932 = 109-6871	0906 015 2813. = 316-556	0906 215 2821. = 463-164
0906 215 2811. = 225-940	0906 015 2813 = 109-6923	0906 215 2821 = 109-6948
0906 215 2811 = 109-6878		

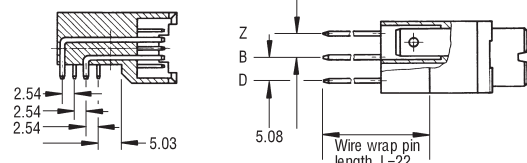
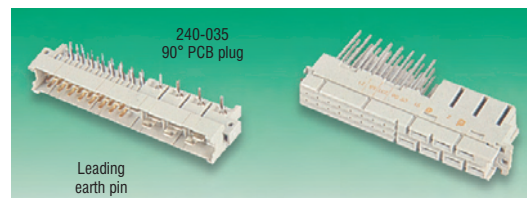
209696

		Price Each				
Order Code		1+	10+	50+	100+	+
Plugs						
90° PCB pins	151-651 ‡	19.53	17.62	15.22	13.67	--
90° PCB pins	109-6871 ●	19.53	17.62	15.22	13.67	--
Faston terminals (horiz)	316-520 ‡	19.97	17.98	15.60	13.96	--
Faston terminals (horiz)	109-6922 ●	19.97	17.98	15.60	13.96	--
Sockets						
Faston terminals (horiz)	240-011 ‡	35.15	31.65	30.72	28.15	--
Faston terminals (horiz)	109-6879 ●	35.15	31.65	30.72	28.15	--
Faston terminals (vert)	225-940 ‡	26.88	24.20	20.96	18.87	--
Faston terminals (vert)	109-6878 ●	26.88	24.20	20.96	18.87	--
Cage clamp terminals	316-556 ‡	37.59	33.06	29.31	24.04	--
Cage clamp terminals	109-6923 ●	37.59	33.06	29.31	24.04	--
PCB pins	463-164 ‡	15.46	13.61	11.62	9.66	--
PCB pins	109-6948 ●	15.46	13.61	11.62	9.66	--

Note: The plugs have a leading earth pin in position Z32. 225-940 will not accept 'H' body backshell

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and Europe warehouses.**300,000 products at your fingertips****'MH' Body Plugs and Socket**

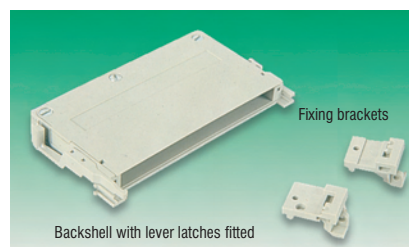
24 Way, Rows d+b+z Loaded and 7 Way, Rows d+z Loaded

HARTING

Contact rating	24 way 6A @ 20°C	Housing	Polyester (0906 131/231 Series)
	7 way 15A @ 20°C		Polycarbonate (0906 031 Series)
Working voltage	24 way 125 V ac/dc	Contact material	24 way Copper alloy, Silver plating
	7 way 125 V ac/dc		7 way Copper alloy, Silver plating
Mfrs. List No.			
0906 131 6922. = 240-035	0906 031 6921 = 109-6924	0906 231 6822. = 413-1605	
0906 131 6922 = 109-6881	0906 231 6821. = 240-310	0906 231 6822 = 109-7075	
0906 031 6921. = 316-570	0906 231 6821 = 109-6882		

209697

		Price Each				
Order Code		1+	10+	50+	100+	+
Plugs						
90° Solder pins	240-035 ‡	21.73	19.13	16.92	13.87	--
90° Solder pins	109-6881 ●	21.73	19.13	16.92	13.87	--
90° PCB pins + straight fastons	316-570 ‡	18.23	16.37	14.45	13.64	--
90° PCB pins + straight fastons	109-6924 ●	18.23	16.37	14.45	13.64	--
Socket						
Straight wire wrap + straight fastons	240-310 ‡	25.96	23.30	20.13	18.07	--
Straight wire wrap + straight fastons	109-6882 ●	25.96	23.30	20.13	18.07	--
Straight PCB pins + straight fastons	413-1605 ‡	24.54	22.08	20.83	18.41	--
Straight PCB pins + straight fastons	109-7075 ●	24.54	22.08	20.83	18.41	--

B, C, D, F, H and MH Accessories**HARTING**

Mfrs. List No	0903 096 0501. = 316-600	0906 048 0504. = 316-611
0902 064 0501. = 316-593	0903 096 0501 = 109-6925	0906 048 0504 = 109-6926
0902 064 0501 = 110-6777		

		Price Each				
Order Code		1+	10+	50+	+	+
Backshells						
'B' Body	316-593	16.86	15.02	13.00	--	--
'B' Body	110-6777 ●	16.86	15.02	13.00	--	--
'C' + 'D' Body	316-600 ‡	22.77	20.23	17.64	--	--
'C' + 'D' Body	109-6925 ●	22.77	20.23	17.64	--	--
'F' + 'H' + 'MH' Body	316-611 ‡	16.15	14.33	12.45	--	--
'F' + 'H' + 'MH' Body	109-6926 ●	16.15	14.33	12.45	--	--

Mfrs. List No	0902 000 9902 = 109-6927	0902 000 9903 = 109-6929
0902 000 9902. = 316-647	0902 000 9903. = 316-659	

		Price Each				
Order Code		1+	10+	50+	100+	+
Lever Latches						
'B', 'C' + 'D' Body left hand	316-647 ‡	2.00	1.70	1.45	1.07	--
'B', 'C' + 'D' Body left hand	109-6927 ●	2.00	1.70	1.45	1.07	--
'B', 'C' + 'D' Body right hand	316-659 ‡	2.00	1.70	1.45	1.07	--
'B', 'C' + 'D' Body left hand	109-6929 ●	2.00	1.70	1.45	1.07	--

Mfrs. List No	0906 000 9909. = 316-702	0906 000 9909 = 109-6933
0902 000 9921. = 316-684	0902 000 9922 = 109-6932	0906 000 9910. = 316-714
0902 000 9921 = 109-6931	0902 000 9922. = 316-696	0906 000 9910 = 109-6934

12

Connectors - Signal & Data

Compliant
Non-compliant
+ Limited stock - RoHS replacement available

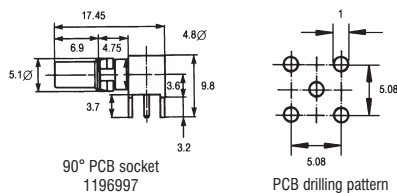
RoHS

	Order Code	1+	10+	50+	100+	+
Fixing Brackets						
'B', 'C' + 'D' left hand	316-684 ‡	4.73	4.12	3.48	2.59	--
'B', 'C' + 'D' left hand	109-6931 ●	4.73	4.12	3.48	2.59	--
'B', 'C' + 'D' right hand	316-696 ‡	6.81	5.91	4.91	3.79	--
'B', 'C' + 'D' right hand	109-6932 ●	6.81	5.91	4.91	3.79	--
'F', 'H' + 'MH' left hand	316-702 ‡	3.82	3.34	3.23	2.12	--
'F', 'H' + 'MH' left hand	109-6933 ●	3.82	3.34	3.23	2.12	--
'F', 'H' + 'MH' right hand	316-714 ‡	3.64	3.18	2.70	2.02	--
'F', 'H' + 'MH' right hand	109-6934 ●	3.64	3.18	2.70	2.02	--

Mfrs. List No 0903 000 9912. = 749-709 0903 000 9912 = 109-6956

209698

	Order Code	1+	10+	50+	+	+
Rear Shrouds for W/W Connectors	749-709 ‡	11.08	9.66	8.43	--	--
Rear Shrouds for W/W Connectors	109-6956 ●	11.08	9.66	8.43	--	--

Coaxial Contacts 50Ω90° PCB socket
1196997

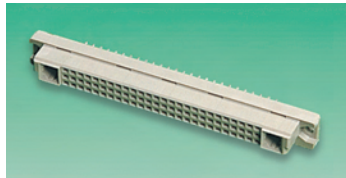
PCB drilling pattern

A range of power and RF contacts for DIN41612 'M' body.

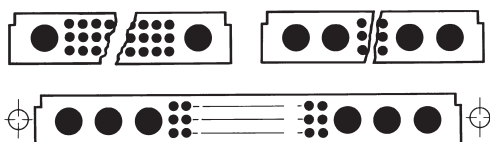
Contact rating	Contacts	Power
Contact resistance	Coax	10A
Working voltage	1.5A dc	10mΩ
Temperature range	10mΩ	—
Mating cycles	250V ac	—
Material	-55°C to +125°C	-55°C to +125°C
Terminals	100	250
Housing material	Copper alloy, Gold over Nickel plating	Tinned
	White polyester	

219835

Style	Order Code	1+	25+	50+	100+	+
Coaxial Contacts						
Straight crimp plug	119-6995 ●	21.83	19.68	18.62	16.37	--
90° crimp plug	119-6998 ●	26.27	23.66	22.37	19.77	--
90° PCB socket	119-6997 ●	24.74	22.31	21.12	18.59	--
Power Contacts						
Straight plug	148-618 ●	8.01	6.93	5.62	4.82	--

'M' Body Plugs and Sockets**HARTING**

Contact configurations



209834

Style	Mfrs. List No.	Order Code	1+	10+	50+	100+	+
78 + 2Contacts							
90° plug	0903 178 6901	749-710 ‡	25.14	22.14	19.28	14.90	--
90° plug	0903 178 6901	109-6957 ●	25.14	22.14	19.28	14.90	--
PCB 4mm socket	0903 278 6805	749-722 ‡	11.98	10.53	9.12	7.06	--
PCB 4mm socket	0903 278 6805	109-6958 ●	11.98	10.53	9.12	7.06	--
60 + 4Contacts							
90° plug	0903 160 6901	749-734 ‡	14.49	12.74	11.07	8.57	--
90° plug	0903 160 6901	109-6959 ●	14.49	12.74	11.07	8.57	--
PCB 4mm socket	0903 260 6805	749-746 ‡	13.35	11.75	10.27	7.96	--
PCB 4mm socket	0903 260 6805	109-6960 ●	13.35	11.75	10.27	7.96	--
42 + 6Contacts							
90° plug	0903 142 6901	114-2814 ●	8.58	7.54	6.55	5.10	--
PCB 4mm socket	0903 242 6805	749-760 ‡	11.95	10.53	9.12	7.06	--
PCB 4mm socket	0903 242 6805	109-6961 ●	11.95	10.53	9.12	7.06	--

Style	Mfrs. List No.	Order Code	1+	10+	50+	100+	+
64Contacts							
90° plug	0903 124 6901	749-771 ‡	9.63	--	--	--	--
90° plug	0903 124 6901	109-6962 ●	9.63	--	--	--	--
PCB 4mm socket	0903 224 6805	749-783 ‡	13.01	11.42	9.88	7.72	--
PCB 4mm socket	0903 224 6805	109-6963 ●	13.01	11.42	9.88	7.72	--

'Q' Body Plugs and Socket (Reverse 'B')

64 Way, Rows a + b Loaded

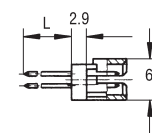
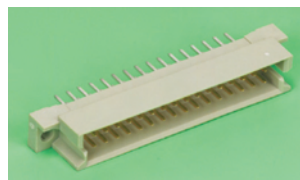
HARTING

Contact rating	2A @ 20°C
Working voltage	250 V ac/dc
Contact material	Copper alloy, Gold plating
Mating cycles	400

Mfrs. List No
 0972 164 6903. = 316-726
 0972 164 6903 = 110-6779
 0972 164 6907. = 316-738
 0972 164 6907 = 110-6780
 0972 264 6801. = 413-1599
 0972 264 6801 = 109-7074

209700

	Pin Length 'L'	Order Code	1+	10+	50+	100+	+
Plugs							
Str PCB pins	4mm	316-726	8.91	8.06	6.97	6.32	--
Str PCB pins	4mm	110-6779 ●	8.91	8.06	6.97	6.32	--
Str wire wrap pins	13mm	316-738	8.35	7.32	6.47	5.32	--
Str wire wrap pins	13mm	110-6780 ●	8.35	7.32	6.47	5.32	--
Socket							
RA PCB Pins		NEW 413-1599 ‡	9.89	8.89	8.38	7.42	--
		109-7074 ●	9.89	8.89	8.38	7.42	--

Half Size 2 Row 'Q' Body**HARTING**

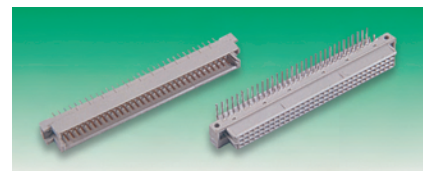
Plug

Contact rating	2A @ 20°C	Contact material	Copper alloy, Hard Gold plating
Working voltage	250 V ac/dc	Mating cycles	400

Mfrs. List No 0927 132 6903. = 316-763 0927 132 6903 = 109-6935

209701

No. of ways	Rows Loaded	Pin Length 'L'	Order Code	1+	10+	50+	100+	+
Plugs								
32	a + b	4	316-763 ‡	7.01	6.16	5.49	4.46	--
32	a + b	4	109-6935 ●	7.01	6.16	5.49	4.46	--

'R' Body Plugs and Sockets (Reverse 'C')**HARTING**

Contact rating	2A @ 20°C	Contact material	Copper alloy, Gold plating
Working voltage	250 V ac/dc	Mating cycles	400

Mfrs. List No.

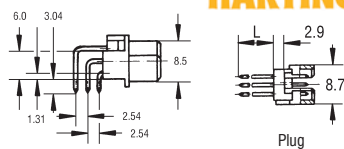
0973 164 6903. = 316-787 0973 164 6907. = 316-805 0973 264 6801. = 316-829
 0973 164 6903 = 109-6936 0973 164 6907 = 109-6938 0973 264 6801 = 109-6940
 0973 196 6903. = 316-799 0973 196 6907. = 316-817 0973 296 6801. = 316-830
 0973 196 6903 = 109-6937 0973 196 6907 = 109-6939 0973 296 6801 = 109-6942

209702

No. of Ways	Rows Loaded	Pin Length 'L'	Order Code	1+	10+	50+	100+	+
Plugs								
64	a + c	4	316-787 ‡	8.68	7.83	6.77	6.13	--
64	a + c	4	109-6936 ●	8.68	7.83	6.77	6.13	--
96	a + b + c	4	316-799 ‡	11.05	10.18	10.02	7.77	--
96	a + b + c	4	109-6937 ●	11.05	10.18	10.02	7.77	--
64	a + c	13	316-805 ‡	11.05	9.69	8.25	7.74	--
64	a + c	13	109-6938 ●	11.05	9.69	8.25	7.74	--
96	a + b + c	13	316-817 ‡	14.93	12.98	11.19	10.55	--
96	a + b + c	13	109-6939 ●	14.93	12.98	11.19	10.55	--
Sockets								
64	a + c	3	316-829 ‡	16.22	14.19	12.20	11.49	--
64	a + c	3	109-6940 ●	16.22	14.19	12.20	11.49	--
96	a + b + c	3	316-830 ‡	18.83	16.37	14.16	13.26	--
96	a + b + c	3	109-6942 ●	18.83	16.37	14.16	13.26	--

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

Half Size 3 Row 'R' Body



HARTING

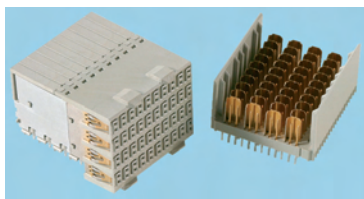
Contact rating	2A (max)	Contact material	Copper alloy, Gold plating
Working voltage	250 V ac/dc	Mating cycles	400
Mfrs. List No	0928 248 6801. = 316-854	0928 148 6903. = 316-878	0928 132 6903. = 110-6781
	0928 248 6801 = 109-6943	0928 148 6903 = 109-6944	0928 148 6907. = 316-623
		0928 132 6903. = 316-866	0928 148 6907 = 110-6778

20973

No. of Ways	Rows Loaded	Pin Length 'L'	Order Code	1+	10+	50+	100+	+
Socket								
90° PCB Solder Pin								
48	a+b+c	3	316-854+	13.32	11.52	9.63	7.35	--
48	a+b+c	3	109-6943●	13.32	11.52	9.63	7.35	--
Plugs								
Straight PCB Solder Pin								
32	a+c	4	316-866	8.48	7.28	6.13	4.68	--
32	a+c	4	110-6781●	8.48	7.28	6.13	4.68	--
48	a+b+c	4	316-878+	9.54	8.25	6.71	5.26	--
48	a+b+c	4	109-6944●	9.54	8.25	6.71	5.26	--
Straight Wire Wrap Pin								
48	a+b+c	13	316-623	10.28	8.92	7.42	5.68	--
48	a+b+c	13	110-6778●	10.28	8.92	7.42	5.68	--

High Speed Differential

Z-Pack HM-Zd - 4 Pair



NEW

Z-Pack HM-Zd is a high speed, differential connector system, which is compatible with the Z-PACK 2mm HM connector line. Z-PACK HM-Zd provides Z-PACK 2mm HM users with a migration path for serial switching applications from 3.125Gbps to 5.0Gbps.

- Z-PACK HM-Zd is an extension of the Z-PACK 2mm HM product line Designed specifically for high speed differential applications
- A modular connector system with a standard module size of 25mm Contact pitch is 1.5mm within a pair and 3.0mm pair to pair within a column; column to column pitch is 2.5mm
- 4 signal contact pairs per column (40 pairs per 25mm) compatible with 8 row Z-PACK 2mm HM
- Available in vertical press fit pin headers and right angle press fit receptacles
- Optimized footprint for improved electrical performance and ease of routing channels on both daughter card and backplane

414976

No. of Pairs	Mfrs. List No.	Order Code	1+	5+	10+
Header - Vertical					
40	6469002-1	963-6730●	43.36	38.51	34.67
Receptacle - Right Angle					
40	6469001-1	963-6714●	64.06	56.96	51.27
90° Keyed Guide Modules, 2 Pin					
Male	1-1469372-1	122-6256●	18.39	16.37	14.71
Female	1-1469373-1	122-6257●	15.85	14.13	12.69

2.0mm Backpanel Systems



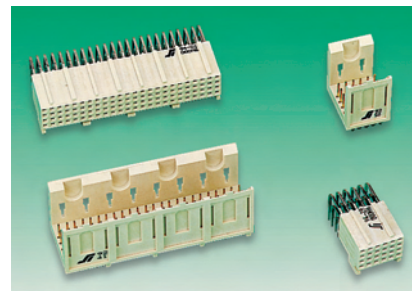
Millipacs 1 2.0mm System

- Board to board modular connector on a 2 x 2mm grid
- Developed for design requirements where high speed and pin density are required
- Conforms to requirements of IEC917 and meets IEEE Futurebus standard

Contact rating	1.5A(signal)	Temperature range	-55°C to +125°C
	3A(power)	Housing	High temperature GF Thermoplastic UL94V-0
Contact resistance	25Ω max	Contacts, female male	Phosphor Bronze
Dielectric strength	V rms	Plating	Class 1 Gold over Nickel

209932

PCB Plugs and Sockets



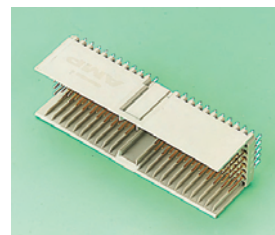
PCB hole sizes:
Male = 0.7mm ±0.1
Female = 0.6mm ±0.1

- Sockets have push fit retention pegs

209933

No. of Ways	Mfrs. List No.	Order Code	1+	50+	100+	250+
Straight PCB Pins						
24 (4x6)	HM1W41ATR000H6	865-047	5.46	4.83	4.38	3.96
96 (4x24)	88953-101LF	121-1677●	18.36	16.70	15.14	13.74
192 (4x48)	HM1W44ATR000H6	865-072▲	24.43	21.72	19.53	17.76
90° PCB Sockets						
24 (4x6)	HM1F41FAP000H6	865-084▲	6.18	5.49	4.92	4.50
24 (4x6)	HM1F41TAP000H6LF	109-8029●	6.61	5.87	5.26	4.82
96 (4x24)	HM1F43TAP000H6	865-102▲	16.44	14.64	13.17	11.97
96 (4x24)	HM1F43TAP000H6LF	109-8030●	17.59	15.66	14.09	12.81
192 (4x48)	HM1F44FAP000H6	865-114▲	29.98	26.64	24.00	21.81
192 (4x48)	HM1F44TAP000H6LF	109-8031●	32.08	28.50	25.68	23.34

Z-Pack 2.0mm Hard Metric



- Meets needs of telecommunications, computer and instrumentation applications
- Comply with IEC917 and IEC 1076-4-101
- 5 row versions.
Type A have 110 signal pins, center guiding and keying facility
Type B have 125 signal pins Type C have 55 signal pins and guiding features
- High density system
- All lines impedance matched to 50Ω single ended and 100Ω differential pair
- Press fit

Signal pin rating, all contracts loaded 1.5A @ 70°C Housing Grey, Glass filled Polyester UL94V-0
Nominal resistance ≥13.5mΩ Contacts Phosphor Bronze plated Gold over Nickel

210014

No. of Ways	Type	Mfrs. List No.	Order Code	1+	100+	250+	500+	+
Male Straight								
110	A	100143-1	487-790▲	15.09	13.08	12.06	10.37	--
110	A	5100143-1	109-8655●	15.00	13.50	10.50	--	--
125	B	100141-1	487-806▲	17.28	15.00	13.83	11.87	--
125	B	5100141-1	109-8656●	17.18	15.46	12.03	--	--
55	C	100159-1	487-818▲	8.52	7.20	6.51	5.82	--
55	C	5100159-1	109-8657●	8.44	7.60	5.91	--	--
Female 90°								
110	A	100147-1	487-831▲	21.27	18.03	16.32	14.61	--
110	A	5100147-1	109-8658●	21.14	19.03	14.80	--	--
125	B	100145-1	487-843▲	25.92	22.50	20.73	17.83	--
125	B	5100145-1	109-8659●	20.64	18.58	14.45	--	--
55	C	100161-1	487-855▲	13.74	11.67	10.29	9.43	--
55	C	5100161-1	109-8660●	13.64	12.28	9.55	--	--
Male Coding Keys								
Pastel Orange	6-100525-3	487-867●	36.13	--	--	--	--	--
Blue Lilac	2-100525-0	487-879●	1.84	1.71	1.65	1.47	--	--
Brilliant Blue	3-100525-2	487-880	1.84	1.71	1.65	1.47	--	--
Cadmium Yellow	5-100525-6	487-892	1.84	1.71	1.65	1.47	--	--
Female Coding Keys								
Pastel Orange	536606-1	487-909	1.84	1.71	1.65	1.47	--	--
Blue Lilac	2-100526-0	487-910●	1.84	1.71	1.65	1.47	--	--
Cadmium Yellow	5-100526-6	487-934●	1.84	1.71	1.65	1.47	--	--

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

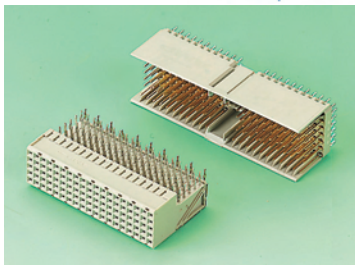
Advanced warning of obsolete components

Compliant
Non-compliant
Limited stock - RoHS replacement available

RoHS

**Compact PCI
Backplane**

tyco Electronics AMP



- Meets needs of telecommunications, computer and instrumentation applications
- Comply with IEC917 and IEC1076-4-101
- Press fit
- C-PCI can use 32 bit or 64 bits on 3U cards and 6U cards using standard and special length connectors

C-PCI Components for Backplane

22 column type A header hot swap
22 column type A header hot swap
22 column type B header
22 column type B header
19 column type B header
19 column type B header
22 column type A header
22 column type A header
22 column type A header

Mfrs. List No.

352332-1
5352332-1
188835-1
5188835-1
352033-1
5352033-1
188834-1
5188834-1

System slot (I) and peripheral slot (O) adapters

22 column type A shielded receptacle
22 column type A shielded receptacle
22 column type B shielded receptacle
22 column type B shielded receptacle
19 column type B shielded receptacle
19 column type B shielded receptacle

352068-1
5352068-1
352152-1
5352152-1
352171-1
5352171-1

219864

Mfrs. List No.	Order Code	1+	100+	250+
352332-1	487-946▲	16.53	13.96	12.68
5352332-1	109-8661●	16.53	13.96	12.68
188835-1	487-956▲	16.15	13.96	12.68
5188835-1	109-8662●	16.15	13.96	12.68
352033-1	487-960▲	15.63	14.32	11.94
5352033-1	109-8663●	15.63	14.32	11.94
188834-1	487-971▲	12.95	12.60	11.35
5188834-1	109-8665●	12.95	12.60	11.35
352068-1	487-983▲	29.01	25.71	22.41
5352068-1	109-8666●	29.01	25.71	22.41
352152-1	487-995▲	28.11	21.67	18.71
5352152-1	109-8667●	28.11	21.67	18.71
352171-1	488-006▲	27.19	23.50	20.93
5352171-1	109-8668●	27.19	23.50	20.93

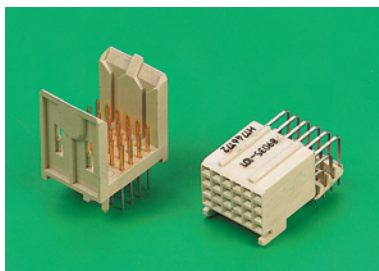
Metral

- Modular high density, 2mm interconnect system
- Flexibility of design
- Ideal for Futurebus+ and SCI (IEEE P1596) users
- Stackable end to end, without loss of poles
- Solder to board and press fit versions
- 4 and 5 row versions

Current 1A(signal)
3A(power)
Contacts Phosphor Bronze Gold(in contact over)
Withstand voltage 1kV rms (@sea level)
Housing Liquid Crystal Polymer(LCP),



209968

**Solder to Board Plugs and Sockets, 4 Row
Class II**

209967

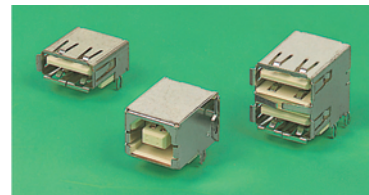
No. of Ways	Tail Length Mfrs. (mm) List No.	Order Code	1+	10+	50+	100+
Straight PCB Pins						
24 (4x6)	4.25 88951-101	633-926▲	4.06	3.93	3.84	3.60
24 (4x6)	4.25 88951-101LF	109-7998●	4.34	4.21	4.11	3.85
24 (4x6)	3.45 88951-131	633-938▲	4.06	3.93	3.84	3.60
24 (4x6)	3.45 88951-131LF	109-7999●	4.34	4.21	4.11	3.85
48 (4x12)	2.65 88952-161	633-963	7.80	7.59	7.32	6.72
96 (4x24)	3.45 88953-131	633-975▲	11.48	11.19	10.98	10.05

Straight PCB Pins

96 (4x24)	3.45 88953-131LF	109-8000●	12.28	11.97	11.75	10.75
192 (4x48)	3.45 88954-131	633-999▲	22.90	22.32	21.81	19.80
192 (4x48)	3.45 88954-131LF	109-8001●	24.50	23.88	23.34	21.19

90° PCB Sockets

24 (4x6)	2.73 89035-101	634-013▲	5.46	5.28	5.10	4.44
24 (4x6)	2.73 89035-101LF	109-8002●	5.84	5.65	5.46	4.75
24 (4x6)	3.53 89035-111	634-025▲	5.46	5.28	5.10	4.44
24 (4x6)	3.53 89035-111LF	109-8003●	5.84	5.65	5.46	4.75
48 (4x12)	2.76 89036-101	634-037	9.33	9.15	8.91	7.89
48 (4x12)	3.53 89036-111	634-049	9.33	9.15	8.91	7.89
96 (4x24)	2.73 89037-101	634-050▲	14.32	13.59	12.96	11.49
96 (4x24)	2.73 89037-101LF	109-8004●	15.32	14.54	13.87	12.29
96 (4x24)	3.53 89037-111	634-062▲	14.32	13.59	12.96	11.49
96 (4x24)	3.53 89037-111LF	109-8005●	15.32	14.54	13.87	12.29
192 (4x48)	2.73 89038-101	634-074▲	24.49	24.09	23.55	21.66
192 (4x48)	2.73 89038-101LF	109-8006●	26.20	25.78	25.20	23.18
192 (4x48)	3.53 89038-111	634-086	24.49	24.09	23.55	21.66

Universal Serial Bus**Receptacles**

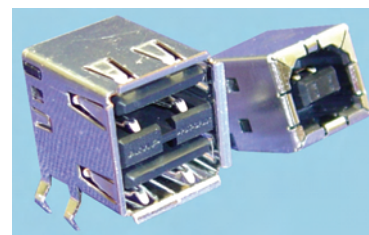
- 4 and 5 pin receptacles available
 - Through-hole and SMT
 - With or without back shielding
 - A and B types
 - A type in single and double deck
 - UL approved
- Insulation resistance 1000MΩ min.initial
Withstanding voltage 750V ac (rms), 60 Hz
Current rating 1A max.
Contact resistance 30mRΩ max.initial
Contact capacitance 2pF max.
- Temperature range 0°C to +40°C
Housing Phosphor Bronze, Tin-Lead plated
Insulator Moulded Plastic UL94V-0
Plating (contact) 0.76um (30uin) PaNi Contact
(tails) 2.54um (100uin) tin-lead Solder tail

209991

No. of Ways	Mfrs. List No.	Order Code	1+	100+	500+	1K+
Thru Mount - Style A						
4 position double deck	72309-030B	152-640▲	3.81	3.39	3.06	2.76
4 position double deck	72309-0034BLF	109-7895●	4.08	3.63	3.27	2.95
Surface Mount - Style A						
4 position, single deck	87583-0010	SMD 152-687▲	1.93	1.74	1.56	1.44
4 position, single deck	87583-0010BLF	SMD 109-7896●	2.07	1.86	1.67	1.59
Thru Mount - Style B						
4 position, single deck	61729-0010B	152-754▲	3.28	2.94	2.64	2.43
4 position, single deck	61729-0010BLF	109-7897●	3.51	3.15	2.82	2.60

USB Receptacle

tyco Electronics AMP



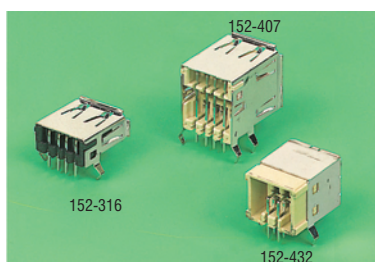
NEW

419671

No. of Ways	Mfrs. List No.	Order Code	1+	10+	50+	100+
Right Angle Through Hole - Type A						
4	292303-1	107-6663●	0.90	0.81	0.75	0.72
4+4 Stacked	5787617-1	107-6664●	1.29	1.14	1.08	1.00
Vertical Through Hole - Type A						
4	292336-1	107-6667●	3.15	2.82	2.64	2.43
Right Angle Through Hole - Type B						
4	292304-1	107-6665●	0.98	0.88	0.81	0.78
Vertical Through Hole - Type B						
4	5787834-1	107-6666●	2.34	2.28	2.21	2.12

Receptacle

tyco Electronics AMP



209992

No. of Ways	Mfrs. List No.	Order Code	1+	100+	500+	1K+
Right Angle Through Hole - Series A						
4 position	787616-1	152-316▲	3.42	3.27	2.61	2.19
4 position stacked	787617-1	152-407▲	4.59	4.05	3.57	3.18
4 position side stacked	787779-1	152-419	7.39	5.91	4.80	4.38
Right Angle Through Hole - Series B						
4 position	787780-1	152-432▲	2.37	2.16	2.07	1.56

USB 2.0 Cable Assemblies

tyco Electronics AMP



NEW

419674

Cable Length (m)	Mfrs. List No.	Order Code	1+	10+	50+	100+	+
Type A to Type B							
1m	1487587-1	107-6669●	4.23	3.78	3.55	3.26	--
1.5m	1487588-2	107-6671●	4.65	4.13	3.87	3.58	--
2m	1487588-1	107-6672●	5.18	4.56	4.30	3.97	--

USB - On The Go

Connectors and Cable Assemblies

molex



- Approximately 1/6th the size of standard USB connectors
- Cable Assemblies have 5 pin design (one ID pin)
- Cable Assemblies are fully shielded for EMI protection
- Fully compliant with current USB 2.0 specifications
- Operates at speeds up to 480 Mbps
- Rugged durability up to 5000 cycles
- Connector, Order Code 4768334 has additional back cover shielding

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

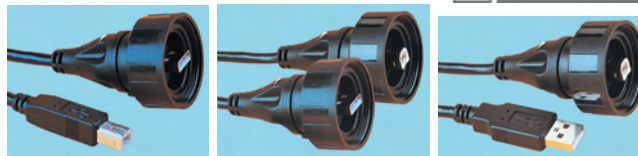
33521/406745

Description	Mfrs. List No.	Order Code	1+	10+	100+	500+	+
Connectors							
Mini AB Receptacle	565790511	476-8292▲	1.64	1.45	0.95	--	--
Mini AB Receptacle	565790519	112-5347●	1.95	1.64	1.08	--	--
Mini AB Receptacle	565790578	SMD 476-8309▲	1.56	1.37	0.90	--	--
Mini AB Receptacle	565790578	SMD 476-8490●	1.85	1.56	1.03	--	--
Mini B Receptacle	548190511	476-8310▲	3.45	3.04	2.00	--	--
Mini B Receptacle	548190519	978-6465●	4.09	3.44	2.23	--	--
Mini B Receptacle	548190578						
-Cover Tape		SMD 476-8322▲	1.57	1.38	0.91	--	--
Mini B Receptacle	548190572						
-Cover Tape		SMD 978-6473●	1.85	1.56	1.03	--	--
Mini B Receptacle	675030020						
-Cover Tape		SMD 476-8334▲	1.31	1.16	0.76	0.62	--
Mini B Receptacle	675031020						
-Cover Tape		SMD 112-5348●	1.55	1.31	0.86	0.64	--
Mini B Receptacle, vertical	5000751519	476-8346▲	4.45	3.92	2.58	--	--
Mini B Receptacle, vertical	5000751517	112-5349●	5.27	4.44	2.87	--	--
Cable Assemblies (male/male)							
- 1.0m long							
USB Type A to Mini B	887328600	122-1070●	10.22	9.41	8.95	8.46	--
USB Type A to Mini B	887328602	122-1071●	10.22	9.41	8.95	8.46	--
USB Mini A to Mini B	592053301	476-8360	11.17	9.83	--	--	--
USB Mini A to Mini B	592053301	112-5270	11.17	10.12	--	--	--

USB Connector System

Bulgin - USB Buccaneer

BULGIN



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

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

Sealing IP68, EN60529 (when mated)

Flammability

Operating Temp.

0°C to 70°C

- 2m IP68 A type USB to standard B type USB
- 5m IP68 A type USB to standard B type USB
- 2m IP68 B type USB to standard A type USB
- 5m IP68 B type USB to standard A type USB
- 2m IP68 A type USB to IP68 B type USB
- 5m IP68 A type USB to IP68 B type USB

335221/406745

Mfrs. List No.	Length	Order Code	1+	10+	50+
PX0840/A/2M00.	2m	486-3550†	15.30	14.97	13.48
PX0840/A/2M00.	2m	999-7377●	15.30	14.97	13.48
PX0840/A/5M00.	5m	486-3562†	25.13	24.58	22.10
PX0840/A/5M00.	5m	999-7385●	25.13	24.58	22.10
PX0840/B/2M00.	2m	486-3574†	15.30	14.97	13.48
PX0840/B/2M00.	2m	999-7393●	15.30	14.97	13.48
PX0840/B/5M00.	5m	486-3586†	25.13	24.58	22.10
PX0840/B/5M00.	5m	999-7407●	25.13	24.58	22.10
PX0841/AB/2M00.	2m	486-3598†	24.61	24.09	21.65
PX0841/AB/2M00.	2m	999-7415●	24.61	24.09	21.65
PX0841/AB/5M00.	5m	486-3604†	34.37	33.62	30.24
PX0841/AB/5M00.	5m	999-7423●	34.37	33.62	30.24

Panel Mount Connectors

BULGIN



4863616 & 9667741 - Computer USB connector

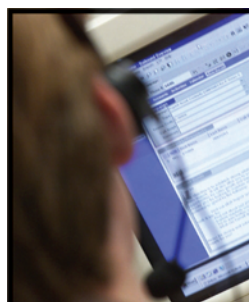


4863628 & 9667750 - Peripheral USB connector

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

335222/406746

Description	Mfrs. List No.	Order Code	1+	25+	50+
IP68 "A" type USB	PX0842/A.	486-3616†	17.25	16.86	15.17
IP68 "A" type USB	PX0842/A	966-7741●	17.25	16.86	15.17
IP68 "B" type USB	PX0842/B.	486-3628†	17.25	16.86	15.17
IP68 "B" type USB	PX0842/B	966-7750●	17.25	16.86	15.17



- Fast access to over 300,000 products
- Over 125,000 technical datasheets
- Technical attribute search
- Quick buy facility
- Instant order confirmation

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12

Connectors - Signal & Data

Compliant
Non-compliant
Limited stock - RoHS replacement available

RoHS

Adaptor Leads



- PCB adaptor lead, USB to 5 way crimp connector
- Lead length 100mm
- 5 way PCB header (0.1" / 2.54mm pitch)

Mfrs. List No.	Order Code	Description
14193.	486-3630	USB "A" type to 5 way crimp
14193	999-7431	USB "A" type to 5 way crimp
14194.	486-3641	USB "B" type to 5 way crimp
14194	999-7440	USB "B" type to 5 way crimp
14191	966-7768	5 way PCB header - straight
14192	966-7776	5 way PCB header - right angle

335224

Order Code	1+	10+	50+
486-3630‡	5.70	5.60	5.01
999-7431●	5.70	5.60	5.01
486-3641‡	5.70	5.60	5.01
999-7440●	5.70	5.60	5.01
486-3653‡	0.39	0.37	0.36
966-7768●	0.39	0.37	0.36
486-3665‡	0.46	0.44	0.39
966-7776●	0.46	0.44	0.39

Industrial USB - IP67

Plugs and Receptacles



NEW

- Sealed housing for harsh industrial environments
- Single seal surface ensures IEC 60529 IP67 sealing
- 1/3 turn bayonet latching for quick connection
- Same form factor as RJ45 Ethernet
- Over-moulded cord-sets and pigtails ensure IP67 sealing on cable side

419726

Mfrs. List No.	Length	Order Code	1+	25+	50+
USB Plug Type A to Pigtail					
847271001	2m	965-2795●	25.97	24.48	22.65
847271003	3m	965-2809	27.28	25.65	23.83
847271004	5m	965-2817	28.58	26.85	24.90
USB Plug Type B to Pigtail					
847281001	2m	965-2825●	25.97	24.48	22.65
847281003	3m	965-2833	27.28	25.65	23.83
847281004	5m	965-2841	28.58	26.85	24.90
Panel Mount USB Receptacle Type A to Pigtail					
847290001	0.152m	965-2850●	28.03	26.33	24.48
PCB / Panel Mount USB Receptacle Type B					
847300001		965-2892●	6.54	6.15	5.70

Industrial USB - IP67

Panel Mount Lead Type A to Type A



NEW

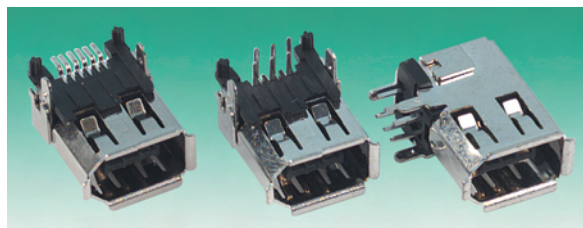
419744

Mfrs. List No.	Length	Order Code	1+	25+	50+
Panel Mount Receptacle to Plug					
847290003	0.152m	965-2868●	18.42	17.35	16.11
847290004	0.8m	965-2876●	19.20	18.10	16.80
847290005	1.3m	965-2884●	20.02	18.81	17.45

IEEE 1394 Connectors

Fire Wire - IEEE 1394

SMT and Through Hole



- Fire Wire connectors
- Applications, MP3 Players, Mobile phones, Digital cameras etc
- Surface mounting or through hole

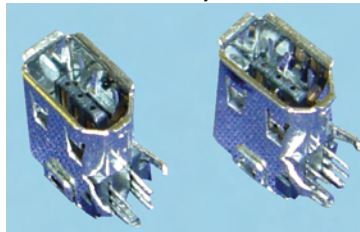
Current	1	Contact material	Brass
Insulation resistance	100M ΩMIN @ 500V	Housing material	Thermoplastic
Contact resistance	40 Ω	Temperature range	-55°C To + 85°C
Contact Plating	Gold over Nickel		

236511/406749

Type	Order Code	1+	25+	50+	250+	+
SMT Horizontal	369-4010‡	1.95	1.76	1.53	1.30	--
SMT Horizontal	109-9043●	1.95	1.76	1.53	1.30	--
THT Horizontal	369-4021‡	2.28	1.98	1.68	1.38	--
THT Horizontal	109-9044●	2.28	1.98	1.68	1.38	--
THT Vertical	369-4033‡	2.30	2.00	1.70	1.39	--
THT Vertical	109-9045●	2.30	2.00	1.70	1.39	--

Right Angle Upright

IEEE 1394 Socket Assembly



NEW

- 6 Position
- Through hole

419676

Mfrs. List No.	Order Code	1+	10+	50+	100+
5787956-1	107-6673●	2.28	2.05	1.92	1.76

IEEE 1394

Connectors and Cable Assemblies



IEEE1394, also named "Firewire" by Apple, and "i.Link" by Sony, is a new standard I/O interface designed to service the demands of the emerging multimedia bus requirements. 1394 is unique in its ability to carry video and audio with assured quality, based on its high bandwidth capabilities.

This simple to use, peer-to-peer connection system

can carry a dense multimedia data stream between computers, video cameras, high-fidelity audio products, and imaging devices at a maximum speed of 400Mbps.

The hot plugging capabilities of 1394 make it ideal as a consumer interface. A new node can be plugged in without powering down. When a new node is detected, all existing nodes on the bus sense it and know a change in bus topology has occurred.

Sockets

- Provides the interface for speeds up to 400 Mbps
- Full metal shielding for ESD protection
- High temperature plastic housing for SMT processing

Cable Assemblies

- 6 Pin to 6 Pin Assemblies provide the interface for speeds up to 400 Mbps
- 6 Pin to 4 Pin and 4 Pin to 4 Pin Assemblies provide the interface for speeds up to 100 Mbps
- Full metal shielding for ESD protection
- Detent features provide grounding and secure mating retention

335211/407901

Description	Mfrs. List No.	Order Code	1+	10+	100+	500+	+
IEEE 1394-1995, 2.0mm pitch							
Connectors, 6 Pin							
Right Angle, Upright	534600621	476-9533▲‡	6.88	6.05	3.99	--	--
Right Angle, Upright	534600629	978-6392●	8.14	6.86	4.44	--	--
Right Angle, Flat	534620621	SMD 476-9545▲‡	6.88	6.05	3.99	--	--
Right Angle, Flat	534620629	SMD 978-6406●	8.14	6.86	4.44	--	--
Right Angle, Flat	539840611	476-9557▲‡	9.86	8.68	5.72	--	--
Right Angle, Flat	539840671	978-6414●	11.68	9.83	6.36	--	--

Description	Mfrs. List No.	Order Code	1+	10+	100+	500+	+
Cable Assemblies (male/male)							
6 Pin to 6 Pin, 1m	592330203	112-5271	13.78	12.49	--	--	--
6 Pin to 4 Pin, 2m	592333003	476-9650†	23.63	20.80	--	--	--
6 Pin to 4 Pin, 1m	592333003	997-4210	23.63	21.43	--	--	--
IEEE P1394a, 0.80mm pitch							
Connectors, 4 Pin							
Right Angle, Flat	540300491	476-9569▲†	1.61	1.41	0.93	0.76	--
Right Angle, Flat	540300471	978-6422●	1.90	1.60	1.06	0.78	--
Cable Assemblies (male/male)							
4 Pin to 6 Pin, 1m	592339001	476-9673†	29.85	26.28	--	--	--
4 Pin to 4 Pin, 2m	592339001	997-4229	29.85	27.07	--	--	--
4 Pin to 4 Pin, 2m	592339002	476-9685†	34.21	30.11	--	--	--
4 Pin to 4 Pin, 4.5m	592339002	997-4237	34.21	31.01	--	--	--
4 Pin to 4 Pin, 4.5m	592339003	476-9697†	23.63	20.80	--	--	--
4 Pin to 4 Pin, 1m	592339003	997-4245	23.63	21.43	--	--	--

IEEE 1394b - 2002**Connectors and Cable Assemblies****Sockets**

- Double shielded socket for improved EMI
- Inner shield for cable ground
- Outer shield for chassis ground
- Rugged leaf contacts rated for a minimum of 1000 cycles
- Surface Mount with through-hole outer shield tabs for robust applications

Cable Assemblies

- Rugged spring contacts withstand 1000 cycles min.
- Keyed to eliminate mismatching
- Plug shield connects to inner socket shield for reliable cable grounding
- Over-moulded cable plugs to protect users from ground loops

IEEE 1394b-2002 is the next generation of IEEE 1394 technology for higher speeds, powered cables and other new applications.

With the 9-pin interface, the IEEE 1394b cable is capable of S3200 (3.2Gbps digital data rate) over each of two differential channels, including DC power per the IEEE 1394b-2002 standard. The interface was designed to provide a minimum of 1,000 mating cycles. This connector system features a three-stage sequential mating system: cable ground, power and signals for ESD (Electro Static Discharge) and hot plugging.

1394b products are available in beta and bilingual keyed versions. The beta version connects to other beta devices which offers the higher speed advantage of 1394b while the bilingual version connects to legacy devices (1394 4-pin and 6-pin) for backward compatibility.

335193

Description	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Connectors							
PCB Beta Socket	452400001	SMD 476-9909	13.05	12.42	11.73	11.13	10.53
PCB Bilingual Socket	452410001	SMD 476-9910●	14.49	13.80	13.02	12.36	11.70
Cable Assemblies (male/male) - 2.0m (6.56 ft) long							
Beta to Beta	446100002	476-9922	83.40	80.16	75.81	73.14	69.54
Bilingual to 6-pin 1394	449950020	476-9934	53.25	51.18	48.42	46.68	44.34
Bilingual to 4-pin 1394	452610020	476-9946	40.92	39.33	37.20	36.39	34.08

IEEE 1394 Connector System**IP68 Sealed - FireWire Buccaneer**

Dust and waterproof to IP68, Bulgin's FireWire Buccaneer is ideally suited to industrial or hostile environments where a high data rate combined with a robust and secure connection is required.

- Dust and waterproof to IP68
- IEEE 1394a performance to 400mbps
- 4 & 6 pole FireWire connectors
- Panel adaptor leads to PCB

Sealing
Flammability
Performance
Operating Temp.

IP68
UL94V-0
IEEE1394a
0°C to 70°C

418750

4 Pole FireWire IP68 Cables

4 Pole to 4 Pole



4 Pole to 6 Pole

- IP68 sealed connector to standard 4 and 6 pole FireWire
- Overmoulded construction
- 2m and 4m lengths

2m IP68 4 pole to standard 4 pole
4m IP68 4 pole to standard 4 pole
2m IP68 4 pole to standard 6 pole
4m IP68 4 pole to standard 6 pole

NEW

Mfrs. List No.	Length	Order Code	1+	25+	50+
PX0417/2M00	2m	995-7928●	30.86	27.41	22.85
PX0417/4M00	4m	995-7936●	41.99	37.37	31.09
PX0418/2M00	2m	995-7944●	30.86	27.41	22.85
PX0418/4M00	4m	995-7952●	41.99	37.37	31.09

418754

6 Pole FireWire IP68 Cables

2m IP68 6 pole to standard 6 pole
4m IP68 6 pole to standard 6 pole

- IP68 6 pole sealed connector to standard 6 pole FireWire
- Overmoulded construction
- 2m and 4m lengths

NEW

Mfrs. List No.	Length	Order Code	1+	25+	50+
PX0846/2M00	2m	995-7960●	40.04	35.58	29.65
PX0846/4M00	4m	995-7979●	55.11	49.05	40.79

418756

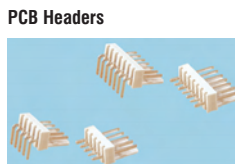
IP68 Panel Mount Connectors

- Front panel mounting
- 4 and 6 pole FireWire
- PX0419 mates with PX0417 & PX0418
- PX0847 mates with PX0846
- PX0419 terminated with 5 way crimp at rear
- PX0847 terminated with 7 way crimp at rear

NEW

Mfrs. List No.	Poles	Order Code	1+	25+	50+
PX0419	4	995-8002●	15.72	14.00	11.65
PX0847	6	995-8010●	19.04	16.96	14.06

418757

FireWire Accessories

- 2.54mm pitch, right angle and vertical mounting
- 5 way headers for use with PX0419
- 7 way headers for use with PX0847

NEW

Mfrs. List No.	No. Of Ways	Order Code	1+	10+	50+
90°					
14192.	5	486-3665†	0.46	0.44	0.39
14359	7	995-8037●	0.75	0.65	0.56
Vertical					
14191.	5	486-3653†	0.39	0.37	0.36
14358	7	995-8029●	0.68	0.62	0.52

Sealing Caps

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

For use with PX0417 & PX0418
For use with PX0419
For use with PX0846
For use with PX0847

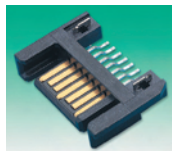
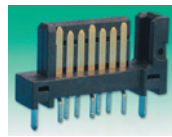
418758

Mfrs. List No.	Order Code	1+	25+	50+
PX0485/BK	995-7995●	2.34	2.08	1.82
PX0480/BK	995-7987●	2.34	2.08	1.82
PX0835	428-5876●	3.12	2.84	2.36
PX0733	314-390●	2.02	1.85	1.74

Compliant
Non-compliant
Limited stock - RoHS replacement available

RoHS

Serial ATA Storage Interface

Serial ATA Storage Interface
Desk top and Server Storage4381750
System Plug reverse right angle4381762
Signal Plug, straight, Vertical1125346
Device Plug4381786
Receptacle, SMT.4381798
Signal Cable4381804
Power Cable assembly

- Ideal Storage interface to meet increased bandwidth and performance requirements
- Can support 1.5 Gbps.

Current Rating	1.5A max	Contact Resistance	30mΩ max
Dielectric withstand Voltage	500V AC 1 min. at sea level	Operating Temperature (Desktop)	-25°C to 85°C
Insulation Resistance	1000MΩ min	Operating Temperature (Server)	-40°C to 105°C

272340/406750

Mfrs. List No.	Order Code	1+	10+	100+
----------------	------------	----	-----	------

Desktop Storage

System plug, reverse r/a	67490-0220	438-1750▲	6.74	5.93	3.91
System plug, reverse r/a	674903220	NEW 107-8527●	1.04	0.91	0.81
System plug, standard r/a	674901220	NEW 107-8524●	3.19	2.80	2.54
Signal plug, vertical	67491-0010	438-1762▲	1.40	1.23	0.81
Signal plug, vertical	674910020	NEW 107-8528●	1.82	1.59	1.43
Signal plug, vertical	674911030	NEW 107-8529●	1.43	1.27	1.14
Receptacle, right angle, SMT	674929220	NEW 107-8531●	2.57	2.28	2.05

Server Storage

Device plug	876790003	112-5346●	8.57	7.21	4.67
Device plug	877030001	NEW 107-8530●	5.63	5.01	4.52
Receptacle, SMT	87713-0001	438-1786▲	9.77	8.60	5.67
Receptacle, SMT	877131001	NEW 107-8533●	11.59	9.83	9.28
Receptacle, Pressfit	877011001	NEW 107-8532●	11.20	9.99	8.95
Receptacle, through hole	877791001	NEW 107-8534●	16.08	14.29	12.79

Cable Assemblies

Signal cable - Female to Female

Straight - straight 0.5M	88750-5300.	438-1798±	12.59	11.84	11.08
Straight - straight, 0.5M	88750-5318	NEW 101-2233●	12.59	12.19	11.42
Straight - straight, 1M	887505418	NEW 107-8518●	27.47	24.45	21.97
Straight - r/angle, 0.5M	887625400	NEW 107-8519●	4.95	4.43	3.97
Straight - r/angle, 1M	887625410	NEW 107-8520●	5.70	5.11	4.59

Power cable

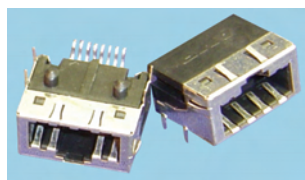
Male - female, 0.15M	88751-1310.	438-1804±	3.71	3.49	3.26
Male - female, 0.15M	88751-1310	NEW 101-2235●	3.71	3.59	3.36
4 way female - pigtail, 1.5M	887511410	NEW 107-8522●	4.26	3.58	3.42
5 way female - pigtail, 1.5M	887577810	NEW 107-8523●	6.12	5.44	4.88

High Speed Data Connectors

High Speed Data Connector (HSSDC)



Receptacle



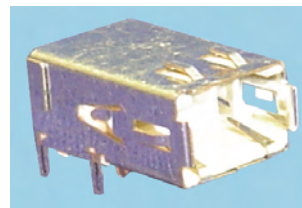
- Fully Shielded for high speed data transfer
- IEEE802.3Z (Gigabit Ethernet), NCITS T11 (FC) and T101.1 (SSA) approved
- Impedance controlled by design for 150 ohm differential systems
- Handles data transfer rates exceeding 2.125 Gbits/sec

NEW

- Champ .050 Series II style contacts

419688

Description	Mfrs. List No.	Order Code	1+	10+
Flanged With 4-40 threaded insert	1658250-1	107-6628●	11.52	10.25
Flangeless	5636181-1	107-6629●	31.35	27.90

High Speed Data Connector (HSSDC)
Receptacle

- Meets Infiniband[®] 1.0 specification
- Data transfer rate of 2.5Gb/s
- Shielded
- Polarised for ease when mating
- PCB retention legs

NEW

419703

Used with	Mfrs. List No.	Order Code	1+	10+
Infiniband	1761069-1	107-6630●	32.58	28.97
Fibre Channel	1761072-1	107-6631●	32.58	28.97

HDMI

High Definition Multimedia Interface
(HDMI) Connector System

The new HDMI cable assemblies, adaptors and connectors provide an uncompressed digital link between consumer electronics equipment such as DVD players, set-top boxes and audio video monitors such as plasma display screens for high definition TVs.

- Eliminates the confusion of multiple cables used to connect current A/V systems
- 5 Gbps supports high definition video and multichannel digital audio in a single cable
- 10,000 mating cycles
- DVI backward compatible
- Fully shielded
- Lead-free plating

Mfrs. List No.	Description	Order Code
887689800	1.0m Cable HDMI to HDMI	874-9981
887689810	2.0m Cable HDMI to HDMI	489-5630
887689820/592056203	3.0m Cable HDMI to HDMI	489-5642
887689830	5.0m Cable HDMI to HDMI	874-9990
887671010	10.0m Cable HDMI to HDMI*	875-0009
887671020	15.0m Cable HDMI to HDMI*	875-0017
887683500	1.0m Cable DVI to HDMI	875-0025
887683510	2.0m Cable DVI to HDMI	489-5654
887683520	3.0m Cable DVI to HDMI	489-5666
887683530	5.0m Cable DVI to HDMI	875-0033
887670910	10.0m Cable DVI to HDMI*	875-0041
887670920	15.0m Cable DVI to HDMI*	875-0050
5002541927	R/A Standard type Header	867-2822
5002541911	R/A Flange type Header	489-5680
5002541931	R/A Flange type Header	112-5352
887645900	Adaptor HDMI (F) to P&D (M)	121-1005
887670600	Adaptor HDMI (F) to DVI (M)	121-1007
887642000	Adaptor HDMI (M) to DVI (F)	121-1008

*10 and 15 metre cable length are not HDMI 1.1 compliant, however should function at 800 x 600 or 1024 x 768 resolution

338152/406751

Order Code	1+	10+	50+	100+
NEW 874-9981●	22.59	20.51	18.81	17.64
489-5630●	22.84	21.47	20.10	—
489-5642●	32.80	30.83	28.87	—
NEW 874-9990●	52.05	47.33	43.39	40.65
NEW 875-0009●	79.26	72.07	66.04	61.91
NEW 875-0017●	107.51	97.72	89.61	84.01
NEW 875-0025●	22.95	20.86	19.07	17.94
489-5654●	26.57	24.97	23.38	—
489-5666●	45.60	42.86	40.13	—
NEW 875-0033●	34.83	31.67	29.00	27.24
NEW 875-0041●	61.68	56.05	51.40	48.17
NEW 875-0050●	83.62	76.04	69.72	65.33
NEW 867-2822●	4.59	4.17	3.87	3.61
489-5680▲	5.82	5.12	3.38	—
112-5352●	6.89	5.80	3.76	—
NEW 121-1005●	33.04	30.08	27.54	25.81
NEW 121-1007●	41.40	37.63	34.47	32.35
NEW 121-1008●	22.20	20.15	18.46	17.28

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

Digital Visual Interface (DVI)

MicroCross™ DVI Cables and Adaptors



- Supports **TMDS** (Transmission Minimised Differential Signalling)
- Meets the Intel® **DDWG** (Digital Display Working Group) specification
- Crossing ground blade design provides video bandwidth of 1.7Gbps per differential pair for digital interface and 2.4GHz for analog interface
- Range of adaptors available to allow backwards compatibility to existing displays

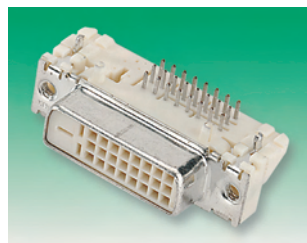
Single link can support UXGA (1600 x 1200) displays
Dual link can support QXGA (2048 x 1536) displays
DVI-I version supports Analog and Digital (TMDS) transmission
DVI-D supports 1.6 Gbit/sec. TMDS transmission rates.
DVI-A version supports 2.5GHz Analog RGB bandwidths.

Mfrs. List No.	Description	Order Code
887418000.	DVI-Digital to DVI-Digital Single Link 2.0m Cable	329-3786
887418000.	DVI-Digital to DVI-Digital Single Link 2.0m Cable	997-3893
0887418020	DVI-Digital to DVI-Digital Single Link 5.0m Cable	871-8261
887418100	DVI-Digital to DVI-Digital Dual Link 2.0m Cable	972-7850
0887418120	DVI-Digital to DVI-Digital Dual Link 5.0m Cable	871-8270
887418200.	DVI-Digital to DVI-Digital Dual Link 5.0m Cable	329-3804
887418200.	DVI-Digital to DVI-Digital Dual Link 5.0m Cable	997-3907
887418300.	DVI-Digital to DVI-Digital Dual Link 5.0m Cable	329-3816
887418300.	DVI-Digital to DVI-Digital Dual Link 5.0m Cable	997-3915
887418500.	DVI-Digital to P&D-Digital 2.0m Cable	329-3830
887418500.	DVI-Digital to P&D-Digital 2.0m Cable	997-3923
887418600.	DVI-Digital to DFP 2.0m Cable	329-3841
887418600.	DVI-Digital to DFP 2.0m Cable	997-3931
887418700.	DVI-Digital to DFP 2.0m Cable	329-3853
887418700.	DVI-Digital to DFP 2.0m Cable	997-3940
887418800.	DVI-Digital to DFP 2.0m Cable	329-3865
887418800.	DVI-Digital to DFP 2.0m Cable	997-3958
887418900.	DVI-Digital to DFP 2.0m Cable	329-3877
887418900.	DVI-Digital to DFP 2.0m Cable	997-3966
887419000.	DVI-Digital to DFP 2.0m Cable	329-3889
887419000.	DVI-Digital to DFP 2.0m Cable	997-3974
887419100.	DVI-Digital to DFP 2.0m Cable	329-3890
887419100.	DVI-Digital to DFP 2.0m Cable	997-3982
887419200.	DVI-Digital to DFP 2.0m Cable	329-3907
887419200.	DVI-Digital to DFP 2.0m Cable	997-3990
887419300.	DVI-Digital to DFP 2.0m Cable	329-3919
887419400.	DVI-Digital to DFP 2.0m Cable	329-3920

210075

Order Code	Price Each	1+	10+
329-3786‡	19.58	—	—
997-3893●	23.53	—	—
871-8261●	52.01	—	47.26
972-7850●	29.71	—	—
871-8270●	68.58	—	62.37
329-3804‡	19.36	—	—
997-3907●	23.31	—	—
329-3816‡	15.86	—	—
997-3915●	19.10	—	—
329-3830‡	24.67	—	—
997-3923●	29.71	—	—
329-3841‡	20.14	—	—
997-3931●	25.47	—	—
329-3853‡	8.73	—	5.82
997-3940●	7.02	—	—
329-3865‡	8.73	—	8.14
329-3877‡	12.45	—	10.37
329-3889‡	28.17	—	—
997-3974●	33.92	—	—
329-3890‡	11.55	—	9.81
997-3982●	11.55	—	—
329-3907‡	13.46	—	—
997-3990●	16.19	—	—
329-3919	12.45	—	10.93
329-3920	11.70	—	10.17

DVI Receptacles



- DVI PCB receptacles approved by the DDWG
- Suitable for both digital and analogue transmission (9.9Gbps and 2.5Gbps)
- Mates with both Molex DVI cables and adaptors
- Available in both right angle and vertical configurations

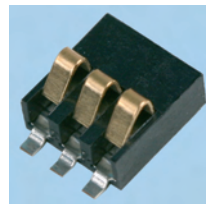
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Description	Mfrs. List No.	Order Code	Price Each	1+	10+
DVI-I Right angle	743201004.	352-6124‡	4.28	—	—
DVI-I Right angle	743201004.	973-4139●	5.15	—	4.53
DVI-I Vertical	743203004.	352-6136‡	4.20	—	4.07
DVI-I Vertical	743203004.	973-4147●	5.15	—	4.53
DVI-D Right angle	743204004.	352-6148‡	4.28	—	—
DVI-D Right angle	743204004.	973-4163●	5.15	—	4.53
DVI-D Vertical	743205004.	352-6150	4.20	—	4.07
DVI-I Right angle forklock	743209014.	352-6161‡	4.53	—	4.28
DVI-I Right angle forklock	743209014.	101-2227●	5.15	—	4.53

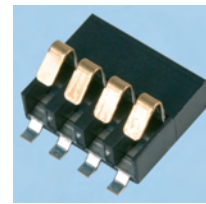
Battery Connectors

Battery Connector

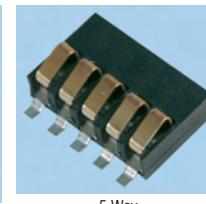
MOBO™ - 2.5mm pitch



3 Way



4 Way



5 Way

- Specifically designed for mobile equipment
- Available in 3, 4 and 5 way configurations all on a 2.5mm pitch
- Insulator height provides a 3mm spacing
- Various contact nose heights from 1.2mm to 2.3mm provides flexibility in design
- Suitable for 5000 mechanical cycles
- Contacts are gold plated, stamped and rated to 3A
- Retaining brackets provide even greater strength when connected to the PCB

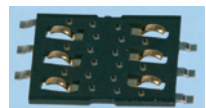
346938/406760

Contact nose height	Mfrs. List No.	Order Code	price each	5+	50+	100+	250+
3 Way							
1.2mm	009155003001011	771-0836▲‡	0.81	0.69	0.69	0.59	0.59
1.2mm	9155003001016	972-8350●	1.17	1.01	0.94	0.85	0.85
1.8mm	009155003002011	771-0844▲‡	1.08	0.93	0.90	0.78	0.78
1.8mm	9155003002016	972-8376●	1.17	1.01	0.94	0.85	0.85
2.3mm	009155003003011	771-0852▲‡	1.17	1.01	0.94	0.85	0.85
2.3mm	9155003003016	972-8384●	1.17	1.01	0.94	0.85	0.85
4 Way							
1.2mm	009155004001011	771-0860▲‡	1.11	0.96	0.93	0.81	0.81
1.2mm	9155004001016	972-8392●	1.20	1.04	0.98	0.88	0.88
1.8mm	009155004002011	771-0879▲‡	1.11	0.96	0.93	0.81	0.81
1.8mm	9155004002016	972-8406●	1.20	1.04	0.98	0.88	0.88
2.3mm	009155004003011	771-0887▲‡	1.11	0.96	0.93	0.81	0.81
2.3mm	9155004003016	972-8414●	1.20	1.04	0.98	0.88	0.88
5 Way							
1.2mm	009155005001011	771-0895▲‡	1.37	1.20	1.11	1.01	1.01
1.2mm	9155005001016	972-8422●	1.37	1.20	1.11	1.01	1.01
1.8mm	009155005002011	771-0909▲‡	1.37	1.20	1.11	1.01	1.01
1.8mm	9155005002016	972-8430●	1.37	1.20	1.11	1.01	1.01
2.3mm	009155005003011	771-0917▲‡	1.26	1.11	1.05	0.93	0.93
2.3mm	9155005003016	972-8449●	1.37	1.20	1.11	1.01	1.01

SIM Card Connectors

SIM Card Connector

MOBO 2.54mm pitch - Standard



- Specifically designed for hand held devices requiring secure subscriber identification
- Standard 6-pin configuration on a 2.54mm pitch
- Three operating heights of 0.8, 1.6 or 2.4mm
- Contact design is specifically rounded to avoid any damage during and after card insertion during normal use
- Design also incorporates protection features to avoid contact damage during this operation such as contact snagging
- Contacts are gold plated, stamped and rated to 0.5A and are suitable for 5000 mechanical cycles
- For use with both full ISO cards and micro SIM cards
- Stand-off design allows other components to be mounted underneath the connector
- Insulator moulded from high temperature plastic
- Can be used in convection or infra red soldering processes

346942/406762

Connector height	Mfrs. List No.	Order Code	Price Each	5+	50+	100+	250+
0.8mm	009162006000080	771-0925▲‡	0.87	0.75	0.72	0.54	0.54
0.8mm	9162006000080	972-8457●	1.24	1.07	1.01	0.91	0.91
1.6mm	009162006000160	771-0933▲‡	0.90	0.78	0.78	0.56	0.56
1.6mm	9162006000160	972-8465●	1.30	1.14	1.07	0.94	0.94
2.4mm	009162006000240	771-0941	1.33	1.17	1.11	0.98	0.98

Compliant
Non-compliant
RoHS

Limited stock - RoHS replacement available

SIM Card Connector
MOBO 2.54mm pitch - Slide in

- For use with both full ISO and micro SIM cards
- Integral guides aid card insertion
- Rounded contact design avoids damage during and after card insertion
- Gold plated contacts rated to 0.5A
- 5000 mechanical cycles
- Insulator is moulded from high temperature plastic
- Can be used in convection or infra red soldering processes
- All plastic design prevents damage to the SIM card
- Two contact sizes:
Standard - 1.6 x 1.6mm
Narrow - 1.05 x 1.05mm

346943/406763

Contact description	Mfrs. List No.	Order Code	5+	50+	100+	250+
Standard	009162006200175	771-0950▲‡	1.82	1.59	1.46	1.33
Standard	9162006206175	972-8473●	1.82	1.59	1.46	1.33
Narrow	009162006210175	771-0968▲‡	2.02	1.76	1.63	1.46
Narrow	9162006216175	972-8481●	2.02	1.76	1.63	1.46

FMS006Z-0000-BF

- Ultra low profile - 2.3mm
- Locking lid - one touch release

FMS006-0001

- Ultra low profile - 2.3mm
- Locking lid - one touch release
- Integrated card detection switch

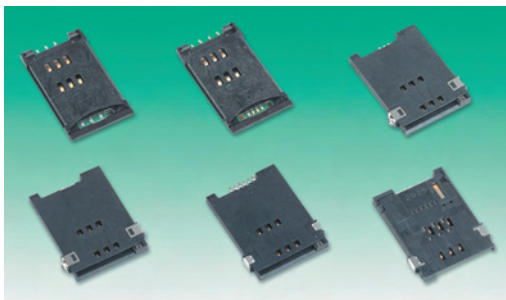
Insulation Resistance	500MΩ min	Current Rating	0.5A
Withstand Voltage	250V AC rms	Operating temperature range:	-55°C to +85°C
Contact Resistance	100mΩ max	Mating Cycles	5000
Voltage Rating	250V AC		

248976

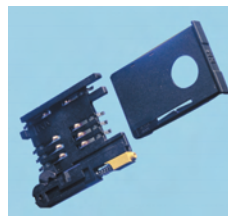
Type	Mfrs. List No.	Order Code	1+	Price Each	50+	100+
Cover Type - Standard PCB Mount						
Unswitched	FMS006Z-0000-BF	114-3954●	7.61	6.90	6.36	
With Switch	FMS006-0001	114-5895●	16.31	15.14	14.09	
Push / Push - Standard PCB Mount						
Unswitched	FMS006-2000-0	429-7647	21.76	19.81	18.14	
Unswitched	FMS006Z-2000-0	117-0398●	21.76	19.81	18.14	
With Switch	FMS006Z-2001-1	114-3956●	22.76	20.70	18.97	

SIM Card Connectors

FMS - Series



- Typical applications include GSM phones and EPOS equipment
- Conform to GSM11.11 standard

SIM Card Connector with Eject
2.54mm pitch

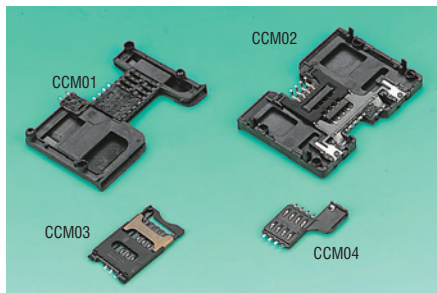
- For use with ISO and Micro sim cards
- Standard 6-pin configuration on a 2.54mm pitch
- Push-push button enables easy extraction
- Polarization on card holder prevents mismatching of card
- Eject mechanism with card holder (91236-****)
- 5000 mating cycles (minimum)
- Contacts are gold plated and rated to 0.5A

414026

	Mfrs. List No.	Order Code	1+	Price Each	50+
SIM Card Connector					
Yellow P/B - With PCB locator peg	912280002	965-2337●	8.10	7.29	
Black P/B - Without locator	912280001	965-2310●	9.44	8.43	
SIM Card Holder					
With Slanted face	912360002	965-2345●	1.27	1.14	
With Straight face	912360001	965-2329●	1.63	1.46	

Smart Card Connectors**CCM Series**

Cannon



- CCM01 Through hole 8 or 16 way for low usage
- CCM01 Papillion SMT 8 way/sealed switch/narrow cover/reduced contact base sealed end travel switch
- CCM03 Landing style contacts 16 way for intensive use with sealed end travel switch
- CCM02mk2 Advanced landing style contacts for long live in SMT and through hole versions
- CCM03 GSM style for mini smart cards for POS and mobile phones in 6 way and 8 way
- CCM04 SMT small package miniature connectors in 6 and 8 way for use in limited space applications

Operating life	CCM01 100000 CCM02 200000 CCM03 10000 CCM04 100000	Insulation resistance	>10MΩ
Contacts	Copper alloy	Test voltage	>1KV rms
Contact plating	Gold over Nickel	Current	10μA min 1A max
Term plating	Tin	Contact resistance	<100mΩ
Cover/housing	Thermoplastic		

210058

Mfrs. List No.		Order Code	1+	Price Each	500+	1K+
CCM01-1NF ROHS	8 way bladed end travel switch unsealed	121-4863●	4.00	3.78	3.61	
CCM01-2NF	16 way bladed end travel switch unsealed	309-0565	4.66	4.31	4.12	
CCM01-2251 LFT	8 way Papillion SMT end travel switch sealed	121-4864●	5.47	5.11	4.85	
CCM01-2252SLFT	16 way Papillion SMT end travel switch sealed	121-4865●	6.25	5.86	5.57	
CCM02-2N0-3ROHS T30/	16 way landing style contacts end travel switch sealed	121-4866●	13.74	12.82	12.21	
CCM02-2503LFT T30/	MK2 8 way through hole end travel switch sealed	122-2711●	10.72	10.02	9.53	
CCM02-2504 LFT	MK2 8 way SMT end travel switch sealed	121-4867●	10.90	10.19	9.70	
CCM03-0N0-1 LFT	6 way & card detectors switch unsealed	121-4868●	4.69	4.33	4.13	
CCM03-3001LFT R102	6 way low profile 2.5mm high	122-2712●	2.33	2.18	2.05	
CCM03-3003 LFT	8 way low profile 2.5mm high	121-4869●	2.54	2.38	2.28	
CCM03-3505LFT R122	6 way profile fixed cover	122-2420●	2.11	1.93	1.86	
CM03-3504LFT R122	8 way low profile fixed cover	122-2713●	2.27	2.12	1.99	
CCM04-1201	6 way SMT moulding height 2.75mm	309-0693	1.46	1.37	1.35	
CCM04-1218	8 way SMT moulding height 2.75mm	309-0700	2.46	2.30	2.20	
CCM04-1317 LFT	8 way moulding height 2.75mm sealed end travel switch	121-4870●	4.69	4.33	4.13	

Memory Card Connectors

TransFlash Memory Card Holders



Trans Flash is the world's smallest memory card storage system. Offering over 70% volume savings versus miniSD, Trans Flash will store up to 256MB of removable memory. Molex offer two types of Trans Flash connectors, a hinged version intended for one-time card insertion applications and a push-push design for scenarios where the card will be removed more frequently.

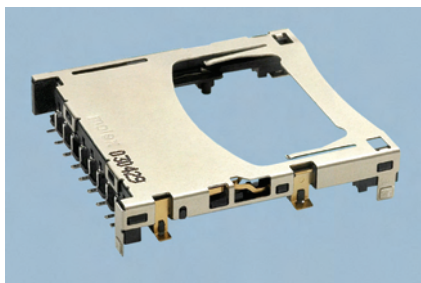
- Hinged and push-push types
- Solder tails on inside of design
- Gold plated bevelled contacts
- Metal shielding with shell tabs

	Hinged card holder	Push-push card holder
Voltage rating	10V	100V
Current rating	0.5A	0.5A
Contact resistance	80mΩ max	100mΩ max
Withstand voltage	500V	500V
Insulation resistance	1000MΩ min	1000MΩ min
Operating temperature range:	-25°C to +85°C	-25°C to +85°C
Mating cycles	1000	5000
Housing Material	LCP Liquid Crystal Polymer	LCP Liquid Crystal Polymer
Contact Material	Copper- Gold over Nickel	Copper- Gold over Nickel

383439

Mfrs. List No.	Order Code	1+	10+	25+	50+
Push-Push Card Holder					
5008730801	121-1004●	4.88	4.56	4.26	4.10
Hinged Card Holder					
5009010800	857-3395●	4.78	4.49	4.20	4.04

SD I/O Memory Card Connectors



Molex's new SD I/O Card connectors are similar to the standard push-push type SD Card connectors, but also includes grounding arms to provide frame grounding to the metal tab on the SD I/O Cards.

- Accepts SD and SD I/O memory cards
- Push-push card ejector system
- Reverse and normal surface mount versions available
- Stand-offs provide trading space under connector (reverse mount only)

Voltage rating	100V	Operating temperature range:	-40°C to +85°C
Current rating	0.5A	Mating cycles	10000
Contact resistance	100mΩ max	Housing Material	LCP Liquid Crystal Polymer
Withstand voltage	500V	Contact Material	Copper alloy- Tin Plated
Insulation resistance	100MΩ min		

387050

Mfrs. List No.	Order Code	1+	10+	50+	+
Normal Mount					
679938001	121-6731	9.73	8.76	8.01	--
Reverse Mount					
679558001	121-4511●	9.73	8.76	8.01	--

Card Connectors SMT
Secure Digital/Multi Media Card

SH1/SH2/SH3 - Multi Media

- Low profile 2.4mm height on board
- No.3 and 4 terminals first to mate with card pad
- Positioning boss for accurate positioning
- SH1 with ejector button (left or right)
- SH2 without ejector
- SH3 Push/Push card eject/insert

SG1 - Secure Digital

- Push-Push card insertion and extraction
- 3.3mm height when mounted
- First mate last break contacts
- MMC can be inserted

Applications

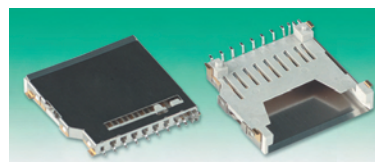
DSC,DVC,PDA,HPC,portable audio,game machines and other compact portable devices

	SH1/SH2/SH3	SG1
Current Rating	100mA max	0.5A max
D W Voltage	500V AC rms 1 min	500V AC rms 1 min
Insulation Resistance	1000MΩ min	1000MΩ min
Contact Resistance	100mΩ max	100mΩ max
Contact Spacing	2.5mm	2.5mm
Withstand Voltage	500V rms per minute	500V rms per minute
Operating Temperature	-25°C to +90°C	-25°C to +85°C

233418

No. Contacts	Mfrs. List No.	Order Code	1+	100+	250+	500+
MMC with Ejector						
7	SH1S007V1A.	388-7947‡	6.71	--	--	--
7	SH1S007V1A	997-0967	6.71	--	--	--
MMC without Ejector						
7	SH2S007V1A.	388-7959‡	3.60	3.40	3.21	2.86
7	SH2S007V1A	997-0975	3.60	3.40	3.21	2.86
MMC with Push/Push eject and insert						
7	SH3S007W1B.	399-6220‡	9.89	9.37	8.92	8.39
7	SH3S007W1B	997-0983	9.79	9.28	8.83	8.31
SD External Holdowns						
13	SG1V013S1B	388-7960▲‡	10.15	--	--	--
13	SG5S009V1A1	996-5076●	10.15	--	--	--

Secure Digital Card Connectors



- 10,000 insertion cycles
- With or without cover
- For Secure Digital and Multi Media use

NEW

Contacts	Copper alloy	Voltage Rating	250V AC
Insulation resistance	1000MΩ	Current Rating	0.5A AC/DC Max
Contact resistance	40mΩ	Temperature range	-25°C To +85°C

270109.342987

	Order Code	1+	50+	100+
Without Cover	918-6140●	2.12	2.05	1.95
Metal Cover	918-6158●	2.28	2.21	2.12
2.0mm Standoff. Metal Cover	918-6166●	2.44	2.38	2.25
Push in / Push out	918-6174●	3.58	3.48	3.32



RoHS Directive

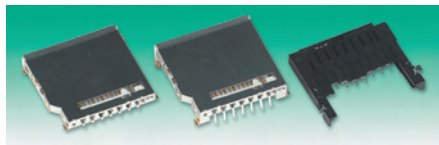
Worried about the part number lottery?
Count on us for traceability
-visit www.rohs.info

**Don't risk anyone
else for RoHS**

Compliant
Non-compliant
Limited stock - RoHS replacement available

RoHS

Multi Media Card Connector



multicomp

NEW

- MMC use only

- 10,000 insertion cycles

Contact	Copper alloy	Current	0.5A AC/DCmax
Voltage Rating	250V AC	Contact resistance	40mΩ
Insulation resistance	1000MΩ	Temperature Range	-25°C To +85°C

270110.343058

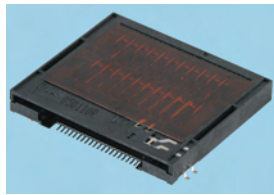
	Order Code	1+	50+	100+
Without Cover	918-6182	2.12	2.05	1.95
Metal Cover	918-6190	2.25	2.18	2.08
2.0mm Stand Off Metal Cover	918-6204	2.44	2.38	2.25
Push in / Push out	918-6212	3.81	3.68	3.48

Combo Memory Card Connectors

molex



4-in-1 Combo Connector



6-in-1 Combo Connector

Molex Miniature Memory Card 'Combo' connectors provide the ultimate in design flexibility and space savings. Users get the advantage of a single slot for four/six different media card types, while equipment makers can save on valuable PCB real estate.

NEW

- Fully shielded for ESD protection
- Low profile design

- SMT tails provide solder joint protection

Memory Card Type

SD
SD I/O
MMC
xD Card
MS
SSFDC (Solid State Floppy Disk Card)

Cards Accepted

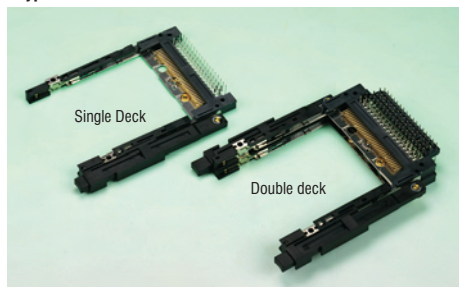
4-in-1 Combo	6-in-1 Combo
Yes	Yes
No	Yes
Yes	Yes
Yes	Yes
Yes	Yes
No	Yes

387112

Mfrs. List No.	Order Code	1+	10+	25+	50+
4-in-1 Combo Connector					
480001001	875-5612	19.50	17.54	15.92	--
6-in-1 Combo Connector					
480711001	875-5620	23.37	21.03	19.14	--

Eject Headers
Card Bus and Type III

FCI



Single Deck

Double Deck

- Conforms to PCMCIA and JEIDA standards
- 10,000 mating cycles when using Berg headers and card kits
- Polarised to prevent incorrect card insertion
- Eject headers provide enhanced ESD protection
- Type III eject headers accepts Type 1, 11 and 111 cards

Current rating	0.5A dc max (per contact)
Housing: Header	High temperature plastic
Housing: Eject Mechanism	High temperature plastic
Plating: Contact area	Gold flash over palladium-nickel alloy

Mfrs. List No. 72206-100CA = 634-499, 92193-100CA = 634-505, 92194-000CA = 634-517

209969

R/A Cardbus	Order Code	1+	10+	25+	50+	+
Single Deck Card Bus	634-499	14.73	13.98	13.29	11.51	--
Single Deck Card Bus	109-8023	15.76	14.96	14.22	13.85	--
Type III Eject Headers - 68 position (without stand off)						
Single Deck Eject Header	634-505	21.68	20.58	19.56	16.26	--
Single Deck Eject Header	109-8024	23.20	22.02	20.93	17.40	--
Double deck	634-517	39.75	37.74	35.88	29.79	--
Double deck	109-8025	42.53	40.38	38.39	31.88	--

ROCARD™ -Rugged Original CARD

FCI



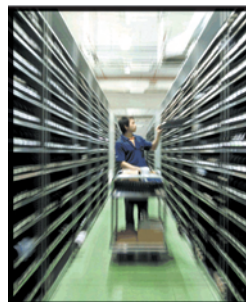
- Complies to PC card and JEIDA standards
- Rugged concept with unique SnapFit latches
- Integrated frame bar within shield
- 4; 15 position I/O connectors: closed end
- Standard, 3.3V, 5V and Cardbus options
- Designed for automated-or hand assembly

Withstanding voltage	500V rms
Current rating	A0.5A per contact
Contact resistance	40mΩ initial; mΩ after cycling
Temperature range	Operating: -20/+60°C; Storage: -55/+85°C
Body material	Stainless Steel, LCP
Contact material/plating	68 pos receptacle: Beryllium Copper plating Au 0.1μm min over PdNi 0.5μm min
I/O connectors:	Phosphor Bronze, plating Au 0.1μm min over PdNi 0.5μm min

Mfrs. List No.	10014744-002SLF = 121-1674	83808-21110LF = 117-6527
10014744-002SLF = 121-1674	61512-002 = 134-594	83808-21111LF = 117-6529
10014747-002SLF = 121-1676	83808-21111 = 134-685	

209986

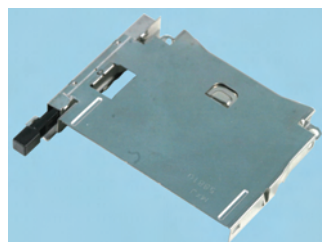
68 Posn. Receptacles	Order Code	1+	10+	25+	50+	+
Standard SMT IL 0.3mm PCB off-set	121-1674	13.87	12.56	11.46	10.42	--
Standard SMT IL 0.6mm PCB off-set	121-1676	27.15	24.15	21.94	19.92	--
15 Posn. Shielded I/O Card Connector						
0.6mm Off-set, closed system	134-594	7.08	6.30	5.67	4.74	--
Card Shields - Type 2						
1 I/O, label recess, insulator, Non Card Bus	134-673	4.84	4.20	3.87	3.24	--
1 I/O, label recess, insulator, Non Card Bus	117-6527	12.63	10.95	10.09	8.46	--
1 I/O, label recess, insulator, Card Bus	134-685	4.84	4.20	3.87	3.24	--
1 I/O, label recess, insulator, Card Bus	117-6529	12.63	10.95	10.09	8.46	--



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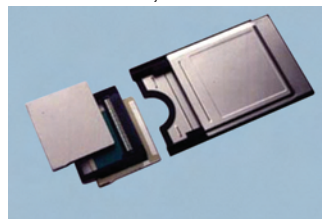
Compact Flash (CF) Memory Card Connectors



Ejector



Header



CF Adaptor

- CF memory cards available with storage capacities up to around 12GB
 - Type I and II CF cards accepted
 - Using the adaptor a CF card can be connected to a standard Type II PC Card slot
- Note: Card ejector mechanism supplied separately to card connector (header)

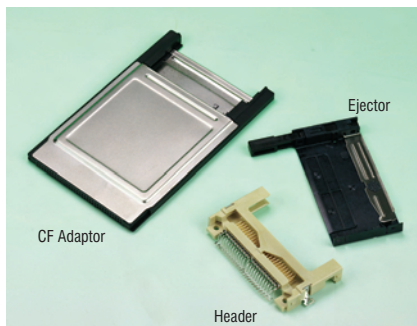
NEW

Voltage rating	100V	Mating cycles	10000
Current rating	0.5A	Material- Header	Steel
Contact resistance	40mΩ max	Material- Ejector	Steel
Withstand voltage	100V	Material- Adaptor	Nylon
Insulation resistance	1000MΩ min	Contact Material	
Operating temperature range:	-20°C to +90°C		

387125

Type	Mfrs. List No.	Order Code	1+	10+	50+
Header					
Top Mounting	553585029	121-1009	13.77	12.40	11.29
Bottom Mounting	553595029	121-1011	14.81	13.35	12.14
Ejector					
Left Side Button	0553640011	121-1010	16.37	14.75	13.41
Right Side Button	0553650011	121-4095	16.37	14.75	13.41
CF to PC Card Adaptor					
	0670380000	875-5671	23.37	21.03	19.14

Compact Flash™ Interconnectors



- Ejector, (SMT) card headers and PC card adaptor to support compact flash card
- Total interconnect solution for compact flash
- Light, compact eject mechanism
- Standard header = 6.64mm height, Low profile header = 4.00mm
- Adaptor converts compact flash card to PC card

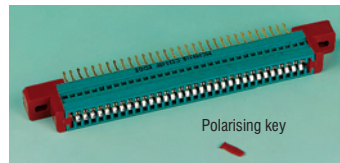
Current rating (Header)	0.5A	Material Header	Liquid crystal polyester UL94V-0
Insulation resistance (Header)	1 x 100MΩ	Ejector	PBT UL94V-0
Temperature range Header	-55°C to +85°C		
Ejector	-55°C to +85°C		
Adaptor	0°C to +55°C		

Mfrs. List No.
 N7E50-7516-VY-20 = 634-529, D7E50-7316-03 = 634-530, 20468-0000-11 = 634-542
 N7E50-7516 PK-20=1034424, N7E50-E516PK-30=1034423

209970

Type 1	Order Code	1+	10+	50+	100+	+
Header	SMD 103-4422	13.02	11.46	10.68	9.90	--
Header	SMD 634-529	11.42	10.29	10.08	8.52	--
Header	SMD 103-4424	10.82	9.52	8.87	8.22	--
Low Profile Header	SMD 413-9227	11.73	10.86	10.26	9.45	--
Low Profile Header	103-4423	11.62	10.22	9.53	8.83	--
Ejector	634-530	9.95	9.00	8.40	7.47	--
Ejector	117-6694	9.46	8.32	7.75	7.19	--
CF Adaptor	112-3341	51.60	45.41	42.31	39.22	--

Card Edge Connectors

0.1" Pitch, Single Sided
With Removable Plastic End Feet

- Polarising key
- Solder tag pins
- Single sided, complete with mounting feet

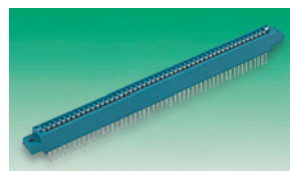
Mfrs. List No.
 CS3548F-EDGE = 965-820,
 CS3549F-EDGE = 965-832

Working voltage	350V	Housing	Green, Glass filled Polyester
Current rating	3A dc or ac peak	Mating cycles	250

209705

Single Sided	Order Code	1+	25+	100+	250+	+
No. of Ways						
32	965-820	28.31	27.03	25.62	24.17	--
32	107-1819	28.31	27.03	25.62	24.17	--
40	965-832	35.73	34.17	32.39	30.51	--
40	107-1820	35.73	34.17	32.39	30.51	--

0.125" Pitch Double Sided (\$100)

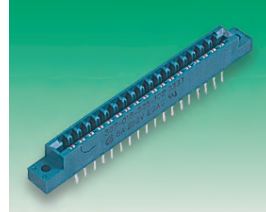


- A 50 way double sided edge connector with 0.125" pitch gold inlay contacts suitable for \$100 based system board
- The connector has pins (0.635mm sqx8.9mm) with 6.35mm row spacing
- Mounting holes 3.25mm diameter
- Current rating 3A.

209709

Double Sided	Order Code	1+	10+	25+	50+	+	+
No. of Ways							
50+50	145-147	38.66	34.41	29.85	23.82	--	--

0.156" Pitch Single Sided

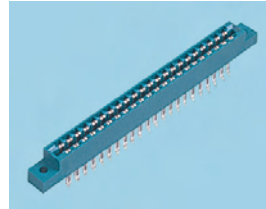


- An 18 way single sided edge connector with 0.156" gold over nickel plated contacts
- Connector has PCB pins (1.23 x 0.33 x 5.41mm) with 5.08mm row spacing
- Mounting holes 3.25mm dia.
- Current rating 5A.

209711

Single Sided	Order Code	1+	10+	50+	100+	+	+
No. of Ways							
18	145-149	17.02	15.25	13.19	10.50	--	--

0.156" Pitch Double Sided



- A 22 way double sided edge connector with 0.156" gold inlay contacts suitable for use with video games and PCB's.
- connector has solder eyelet terminals with a 3.55mm row spacing
- Mounting holes 3.25mm diameter.
- Current rating 5A.

209712

Double Sided	Order Code	1+	10+	50+	100+	+
No. of Ways						
22 + 22	145-148	18.39	16.21	14.25	11.78	--



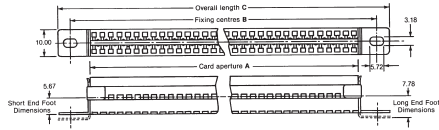
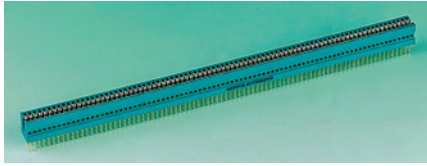
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2.54mm (0.100") Pitch**ITW** **McMurdo**
Connectors

- High reliability class modular edge connector
- Cantilever type contacts, front loading front removable
- Choice of five standard lengths, 24, 32, 40, 56 and 85 way

Ways	A	B	C	Ways	A	B	C	Ways	A	B	C
24	61.28	76.30	85.70	42	102.46	116.94	126.34	85	216.87	231.09	240.69
32	82.14	96.62	106.02	56	143.10	157.58	166.98				

Housing	Glass filled polyester	Working voltage	350V dc or ac peak
Contact material	Phosphor Bronze	Proof voltage	1050V dc or ac peak
Contact finish	Hard acid Gold over Nickel	Current rating	3A dc or ac peak at +25°C
Mechanical endurance	250 operations	Insulation resistance (initially)	1000MΩ min

Single SidedMfrs. List No. B547yyQHxx, where yy = '01' for solder tail or '25' PCB tail where xx = No. of ways
209713**Single Sided**

No. of Ways	Terminal Type	Order Code	1+	25+	100+	250+	+
24	ST	965-881 ▲	16.12	13.26	11.43	9.08	--
24	PCB	965-893 ▲	16.12	13.26	11.43	9.08	--
32	ST	965-900 ▲	19.90	16.11	14.09	11.20	--
32	PCB	965-911 ▲	19.90	16.11	14.09	11.20	--
56	ST	965-923 ▲	33.51	27.41	23.85	18.91	--
85	ST	965-935 ▲	41.86	34.12	29.69	23.53	--
85	PCB	965-947 ▲	41.86	34.12	29.69	23.53	--

ST=Solder tail PCB=Printed circuit tail

Double Sided

Mfrs. List No. B547zzQxxD, where zz = '00' for solder tail or '24' PCB tail where xx = No. of ways

Double Sided

No. of Ways	Terminal Type	Order Code	1+	25+	100+	250+	+
24+24	ST	965-959 ▲	24.71	20.26	17.59	13.93	--
24+24	PCB	965-960 ▲	24.71	20.26	17.59	13.93	--
32+32	ST	965-972 ▲	31.51	25.65	22.28	17.72	--
32+32	PCB	965-984 ▲	31.51	25.65	22.28	17.72	--
40+40	PCB	965-996 ▲	35.89	29.31	25.49	20.16	--
56+56	ST	966-009 ▲	52.98	43.17	37.56	29.82	--
56+56	PCB	966-010 ▲	52.98	43.17	37.56	29.82	--
85+85	ST	966-022 ▲	69.24	56.50	49.15	38.87	--
85+85	PCB	966-034 ▲	69.24	56.50	49.15	38.87	--

ST=Solder tail PCB=Printed circuit tail

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