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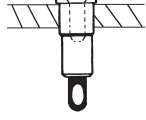
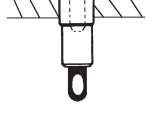
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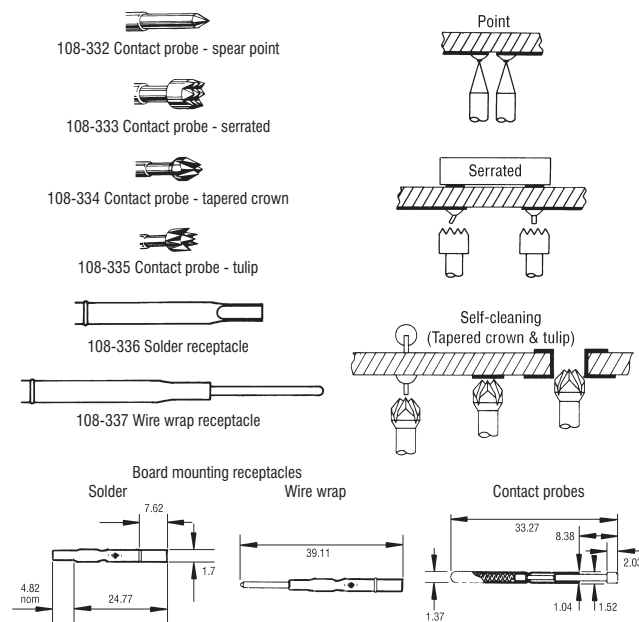
Connectors - Test

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2mm Plugs  SEE PAGE 558	2mm Lead Kit  SEE PAGE 560	3mm  SEE PAGE 560	4mm Lead Kit  SEE WEBSITE	

PCB Test Probes

Spring Loaded Contact Probes and Receptacles

IDI



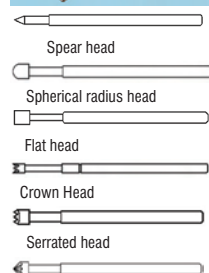
A range of professional spring loaded contact probes giving a full travel of 0.25" (6.35mm) designed to mate with either solder or wire-wrap receptacles. The probes are available with either a point, serrated or self cleaning tapered crown and tulip head styles and will suit most major manufacturers high speed vacuum ATE equipment.

Probes	Receptacles
Maximum current	3A dc
Full travel	6.35mm
Spring pressure:	
Pre-load	45g
1/2 travel	113g
Plunger	Gold Plated, Beryllium Copper
Barrel	Gold Plated, Nickel/silver
Spring	Stainless steel
Recom. min. spacing	2.54mm
Mfrs. List No:	S25B4G = 108-332, S25H4G = 108-333, S25X4G = 108-334, S25Y4G = 108-335, R25SC = 108-336, R25WW = 108-337

209768

	Order Code	1+	50+	Price Each	100+	250+	+
Spring Loaded Contact Probes							
Pointed	108-332	4.77	3.92	2.95	2.28	--	--
Serrated	108-333	4.77	3.92	2.95	2.28	--	--
Tapered crown	108-334	4.77	3.92	2.95	2.28	--	--
Tulip	108-335	4.77	3.92	2.95	2.28	--	--
Receptacles for Contact Probes							
Solder cup type	108-336	1.56	1.23	0.94	0.72	--	--
Wire wrap type	108-337	1.73	1.48	1.06	0.83	--	--

Two Part Contact Probes Spring Loaded

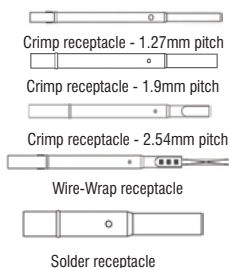


Receptacles

Material:
Material Finish

Mfrs. list No.	Full Travel
P13-223	2.65mm
P19-221	2.54mm
P25-223	4.2mm
P25-226	6.3mm

- A range of professional spring loaded contact probes, 1.27 - 2.54mm pitch
- Mates with crimp, solder or wire-wrap receptacles
- Ideal for ATE

NEWPhosphor Bronze
Gold

Spring Type	Test Pitch
Music wire	1.27mm
Stainless steel	1.90mm
Music wire, Gold plated	2.54mm
Stainless steel	2.54mm

414679

Mfrs. List No.	Order Code	1+	50+	100+
Probes and Receptacle - 1.27mm Pitch				
Pointed P13-0123	996-0104	4.98	4.82	4.62
Concave P13-1123	996-0112	4.98	4.82	4.62
Convex P13-2123	996-0120	4.98	4.82	4.62
Serrated P13-4023	996-0139	5.66	5.40	5.31
Crimp Receptacle S13-503	996-0147	2.02	1.95	1.79
Probes and Receptacle - 1.90mm Pitch				
Pointed P19-0121	996-0155	4.69	4.39	4.30
Concave P19-1121	996-0163	4.69	4.39	4.30
Convex P19-2221	996-0171	4.69	4.39	4.30
Serrated P19-4021	996-0180	5.01	4.78	4.62
Crimp Receptacle S19-501	996-0198	2.02	1.95	1.79
Probes and Receptacle - 2.54mm Pitch				
Flat P25-0822	996-0201	4.10	4.00	3.87
Pointed P25-0123	996-0210	4.10	4.00	3.87
Spherical P25-0423	996-0228	4.10	4.00	3.87
Concave P25-1223	996-0236	4.95	4.75	4.52
Serrated P25-4023	996-0244	5.27	5.05	4.95
Star P25-5223	996-0252	4.62	4.43	4.26
Crimp Receptacle S25-022	996-0260	2.02	1.89	1.82
Wire-wrap Receptacle S25-212	996-0279	2.34	2.18	2.12
Solder Receptacle S25-512	996-0287	2.34	2.18	2.12
Probes and Receptacle - 2.54mm Pitch				
Pointed P25F0126	634-554	4.21	3.43	2.63
Serrated P25F4026	634-566	4.21	3.43	2.63
Tapered crown P253226	634-578	4.21	3.43	2.63
Wire-wrap Receptacle S25346	634-608	1.54	1.28	0.96

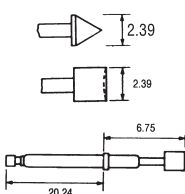
Spring Loaded Contact



143-742

143-743

Mounting hole dia = 1.98 (press-fit), 2.16 (epoxy)



A range of spring loaded contact probes for multipoint testing of PC boards during production. They are designed for either press or epoxy fitting to the test bed. The 143-742 has a gold plated brass concave probe for locating PCB pins and soldered joints, whereas the 143-743 has a stainless steel pointed probe for contact with PCB tracks. Connection is via solder posts.

Spring travel	3mm	Contact resistance	50mΩ max
Probe pressure	56 to 114gf	Mechanical life	100000 operations
Maximum current	5A		

Mfrs. List No. P1113SS2 = 143-743 P1113CA2 = 143-742

209767

	Order Code	1+	50+	100+	250+	+
Point contact probe	143-743	3.31	2.99	2.86	2.63	--
Concave contact probe	143-742	2.94	2.63	2.57	2.38	--

HARWIN

PCB Test Terminals

**NEW**

Raised Loops



PCB mounted test points ideal for clipping on probes or crocodile clips. Discrete wires, Set-On-Test components or components that require frequent replacement can easily be mounted through the eyelet. The coloured glass bead insulator is suitable for raising hot components off the PCB.

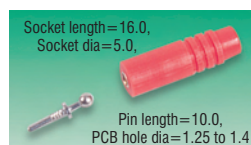
The phosphor bronze tinned spring prevents damage to through plated holes and ensures the terminal remains in place during soldering. Available in two different loop sizes and two different pin lengths.

Mfrs. List No.	Colour	Loop Dia.	Pin Length	Bead Height	Board Thickness	PCB Hole Dia.	Order Code
Series A - Small Loop-Short Pin Length							
20-2137	Black	1.1 - 1.3	2.5	2.3 - 2.5	1.6	1.02	873-1128
20-313137	Red	1.1 - 1.3	2.5	2.3 - 2.5	1.6	1.02	873-1144
20-313138	Green	1.1 - 1.3	2.5	2.3 - 2.5	1.6	1.02	873-1160
20-313139	White	1.1 - 1.3	2.5	2.3 - 2.5	1.6	1.02	873-1179
20-313140	Yellow	1.1 - 1.3	2.5	2.3 - 2.5	1.6	1.02	873-1187
Series B - Large Loop-Std Pin Length							
20-2136	Black	2.0 - 2.2	3.4	3.2 - 3.4	1.6	1.32	873-1195
20-313141	Red	2.0 - 2.2	3.4	3.2 - 3.4	1.6	1.32	873-1209
20-313142	Green	2.0 - 2.2	3.4	3.2 - 3.4	1.6	1.32	873-1217
20-313143	White	2.0 - 2.2	3.4	3.2 - 3.4	1.6	1.32	873-1225
20-313144	Yellow	2.0 - 2.2	3.4	3.2 - 3.4	1.6	1.32	873-1233
Series C - Large Loop-Extended Pin Length							
20-313145	Black	2.0 - 2.2	3.6	3.4 - 3.6	2.4	1.32	873-1250

406152

100 Per Pack	Order Code	1+	5+	10+	50+	+
Series A - Small Loop-Short Pin Length						
873-1128	36.00	35.88	30.12	26.67	--	--
873-1144	36.00	35.88	30.12	26.67	--	--
873-1160	36.00	35.88	30.12	26.67	--	--
873-1179	36.00	35.88	30.12	26.67	--	--
873-1187	36.00	35.88	30.12	26.67	--	--
Series B - Large Loop-Std Pin Length						
873-1195	36.00	35.88	30.12	26.67	--	--
873-1209	36.00	35.88	30.12	26.67	--	--
873-1217	36.00	35.88	30.12	26.67	--	--
873-1225	36.00	35.88	30.12	26.67	--	--
873-1233	36.00	35.88	30.12	26.67	--	--
Series C - Large Loop-Extended Pin Length						
873-1250	39.75	35.88	30.12	26.67	--	--

'SNAPLOX' 7A



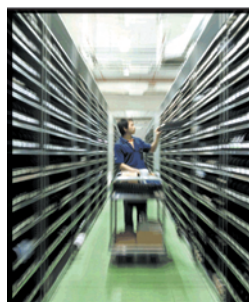
A range of PCB connectors designed with a ball and socket arrangement ideally suited for electronic testing where quick and consistent connections are required. The sockets can move through an angle of 60° beyond which it detaches itself. Being spherical, the connection has at least four points of contact, ensuring a low contact resistance and minimum electrical noise.

Current rating	7A	Contacts	Brass ball pin Palladium over silver plating
Contact resistance	2mΩ max.	Housing	PTFE
Temperature range	-55°C to 125°C		
Maximum wire size	1.55mm O.D.		

Mfrs. List No. Socket = LS82/156/Colour, Pin = 050/LT/B2

209716

Size	Order Code	1+	50+	100+	250+	+
Socket - black	145-322	8.49	7.78	6.88	5.58	--
Socket - red	145-323	8.49	7.78	6.88	5.63	--
Socket - white	145-326	7.19	6.94	6.71	6.29	--
Ball-ended pin	145-327	2.05	1.82	1.79	1.59	--



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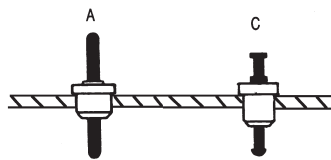
Compliant
Non-compliant
Limited stock - RoHS replacement available

RoHS

Press-Fit PTFE Components

Insulated Feed-Through Terminals

Cannon
ITT Industries
Engineered for life



	143-366			143-365	
Style	Order Code	Height Overall mm	Mounting Hole mm	Mfrs List No.	
A	143-367	13.1	2.2	001-1007-040519	
A	143-366	13.1	3.5	011-1004-040519	
C	143-365	13.7	4	011-2049-040519	

209754

Style	Order Code	1+	50+	100+	250+	+
A	143-367	3.99	3.30	2.55	2.01	--
A	143-366	4.56	3.72	2.82	2.19	--
C	143-365	3.99	3.30	2.55	2.01	--

2mm Plugs, Sockets and Probes

2mm Plug 6A

HIRSCHMANN



Nickel plated brass 2mm pin and flexible shatterproof insulating sleeve. Solder connection. max lead dia. 1.9mm.

L=37, Dia.=4.8

Operating Voltage	50V	Temperature range	-20°C to +60°C
Continuous load Current	6A	Housing	PVC
Contact Resistance	6mΩ	Contacts	Brass, Nickel

Mfrs. List No. MST3+ Colour

209818

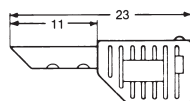
5 Per Pack	Order Code	1+	10+	25+	50+	+
Red	497-216	6.98	5.97	5.33	4.33	--
Black	497-228	5.84	5.01	4.46	3.63	--
Red, Black, Blue, Yellow, Green	497-241	5.97	5.12	4.58	3.70	--

2mm Hermaphrodite Stackable Plugs 7.5A

MC



W=7.0, H=4.5



Stackable spring hollow tube manufactured from nickel plated beryllium copper

Current rating	7.5A	Housing	Polyamide 66, UL94-HB
Operating voltage	30V ac/60V dc	Contacts	Beryllium Copper, Nickel plated
Temperature range	-40°C to +75°C	Termination	Solder

Mfrs. List No. H291N+ Colour

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	148-093	Green	148-095	Yellow	148-097
Black	148-094	Blue	148-096	White	148-098

	5+	25+	50+	100+	+	+
All colours	3.96	3.14	2.66	2.04	--	--

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	108-5441	Green	108-5443	Yellow	108-5445
Black	108-5442	Blue	108-5444	White	108-5446

209718

	5+	25+	50+	100+	+	+
All colours	3.96	3.14	2.66	2.04	--	--

2mm Stackable Plugs 10A

MC



Stackable plugs with gold plated multi-leaf bunch spring contacts.



H=5, W=7, L=26.5, Cable entry=2.1, Wire size 0.5mm² max.

Current rating	10A	Housing	Polyamide, UL94V-2
Operating voltage	30V ac/60Vdc	Contacts	Brass, Gold plated
Contact resistance	0.6mΩ	Multileaf	Beryllium Copper, Gold plated
Temperature range	-10°C to +70°C	Termination	Solder

Mfrs. List No. 22.1004 + 22.2030-x, where x = 1-red, 2-blue, 4-black, 5-yellow, 6-green

209784

5 Per Pack	Order Code	1+	50+	100+	200+
Colour					
Red	299-790	21.56	18.28	16.11	13.72
Red	108-5489	21.56	18.28	16.11	13.72
Black	299-807	21.56	18.28	16.11	13.72
Black	108-5490	21.56	18.28	16.11	13.72
Green	299-819	21.56	18.28	16.11	13.72
Green	108-5491	21.56	18.28	16.11	13.72
Blue	299-820	21.56	18.28	16.11	13.72
Blue	108-5492	21.56	18.28	16.11	13.72
Yellow	299-832	19.35	16.43	14.49	12.32
Yellow	108-5493	19.35	16.43	14.49	12.32

2mm Panel Socket 10A

MC



Low cost panel sockets with spring loaded gold plated contacts

L=23, Dia=6.5max., Panel thickness=8 max., Panel cut-out=5

Current rating	10A	Housing	Polyamide, glass filled, UL94-HB
Voltage rating	30V ac/60V dc	Contacts	Beryllium Copper Gold Plating
Contact resistance	3mΩ	Termination	Solder eylet
Temperature range	-10°C to +80°C		

Mfrs. List No. 23.1002-x, where x = 1-red, 2-blue, 4-black, 5-yellow, 6-green

209719

10 Per Pack	Order Code	1+	50+	100+	200+
Colour					
23.0050-22. Red	269-300	27.46	25.16	22.02	18.28
23.0050-22. Red	108-5466	27.46	25.16	22.02	18.28
23.0050-21. Black	269-311	27.46	24.51	22.02	18.28
23.0050-21. Black	108-5467	27.46	24.51	22.02	18.28
23.0050-25. Green	269-323	29.83	23.96	18.54	15.24
23.0050-25. Green	108-5468	29.83	23.96	18.54	15.24
23.0050-23. Blue	269-335	33.17	26.68	20.62	16.96
23.0050-23. Blue	108-5469	33.17	26.68	20.62	16.96
23.0050-24. Yellow	269-347	33.17	26.68	20.62	16.96
23.0050-24. Yellow	108-5470	33.17	26.68	20.62	16.96

2mm 10A

Belling Lee



Current rating	10A
Contact resistance	3mΩ max.
Temperature range	-10°C to +80°C
Housing	PVC/polypropylene
Contacts	Brass, Silver plating
Termination	L1727 Crimp or solder

209720

Mfrs. List No.	Order Code	1+	250+	500+	1K+	+
Plugs						
L1727/RED.	317-032	2.05	1.95	1.95	1.59	--
L1727/RED	942-7082	2.05	1.95	1.95	1.59	--
L1727/BLACK.	317-044	2.05	1.95	1.95	1.59	--
L1727/BLACK	942-7090	2.05	1.95	1.95	1.59	--
Panel Sockets						
L1737/RED	317-070	5.10	4.04	3.56	2.98	--
L1737/BLACK	317-081	5.10	4.04	3.56	2.97	--

2mm PCB Mounting Test Sockets

HIRSCHMANN



A range of 2mm PCB mounting test sockets for measurements and testing during operation. Test plug can be inserted horizontally from either end and vertically. Dimensions as per DIN 41 649.

H=5.8 (above PCB), L=10.25, Fixing centres=10, PCB hole dia.=1.3

Continuous load current	6A	Housing	Makrolon 2800, UL94V-2
Contact resistance	6mΩ	Contacts	Bronze, Tin plated
Temperature range	-20°C to +60°C		

Mfrs. List No. MPB1+ Colour

209814

5 Per Pack	Order Code	1+	10+	25+	50+	+
Red	497-150	7.61	6.52	5.78	4.75	--
Black	497-162	7.69	6.59	5.84	4.80	--

2mm PCB Mounting Test Sockets

HARWIN



A range of 2mm PCB mounting test sockets manufactured in moulded nylon and fitted with gold plated beryllium copper contacts. The test plugs may be inserted from either end.

H=5.16 (above PCB),
W=3.96, L=11.51, Fixing centres=10.16

Maximum current rating 5A dc Maximum contact resistance 5mΩ
Mfrs. List No. M1352+Colour 209721

		Order Code	10+	20+	100+	+
M1352F98	Black	145-305	1.73	1.61	1.38	--
M1352F99	Red	145-306	1.73	1.61	1.38	--
M1352F94	White	145-307	1.62	1.50	1.29	--

Miniature

DELTRON Components



A plunger action miniature hooked test probe with gold plated contacts, solder connections. Working voltage 50V ac.

Mfrs. List No. 575+Colour

222587

		Order Code	1+	+	+	+
Colour						
Red		119-3802	3.09	--	--	--
Black		119-3805	3.09	--	--	--
Blue		119-3807	3.09	--	--	--
Green		119-3808	3.09	--	--	--
Yellow		119-3809	3.09	--	--	--

Miniature

HIRSCHMANN

523-525
Solder L=61



523-549
2mm Plug L=69.5

Miniature plunger action test hooks with gold plated hook. Two types are available for either solder or 2mm pin connection at side. Working voltage 50V.

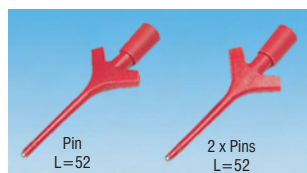
Mfrs. List No. KLEPS 2 + Colour (Solder), KLEPS 2 BU + Colour (Plug)

222383

		Order Code	1+	+	+
Solder					
Red		523-525	9.85	--	--
Black		523-537	9.66	--	--
Plug					
Red		523-549	16.41	--	--
Red		117-6451	16.41	--	--
Black		523-550	17.07	--	--

Miniature

HIRSCHMANN



Miniature test hooks with revolving clip-on gripper. Suitable for extremely thin wires and densely packed circuits and contacts such as ICs. Can clamp diameters up to 3.5mm. Three types available with gold plated 1mm diameter socket, single or double 0.64mm diameter pin. Working voltage 50V.

Mfrs. List No.
KLEPS+Colour (Socket), KLEPS 3 ST Colour (Single Pin), KLEPS 4 + Colour (Double Pin)

222386

		Order Code	1+	+	+
Single Pin					
Black		523-458	9.88	--	--
Red		523-446	9.88	--	--

Micro

HIRSCHMANN



L=53.8

Micro-miniature test hook with revolving clip-on gripper. Designed for extremely thin wires, especially SMD technology and densely packed circuits and contacts such as ICs with a conductor spacing of 1.27mm. The powder-coated shaft can be bent to 35° and can clamp diameters up to 2.5mm. Two connections via gold-plated 0.64mm diameter pins. Working voltage 50V. Current 2A.

Mfrs. List No. MICRO-KLEPS + Colour

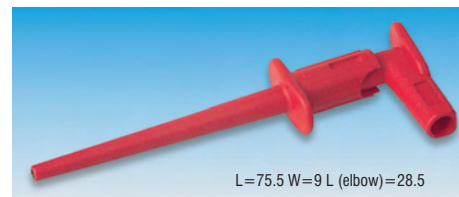
Test leads specifically for these connectors.
order codes 518025 and 518050

222384

		Order Code	1+	+	+
Colour					
Red		523-409	12.99	--	--
Black		523-410	13.25	--	--

2mm 90° Safety Plug Connection

MC



L=75.5 W=9 L (elbow)=28.5

- Right angle 2mm safety plug connection
- Grips pins up to 2mm in diameter
- Gold plated contacts
- IEC 1010-2-031 compliant
- Comfortable finger grip
- Fully insulated

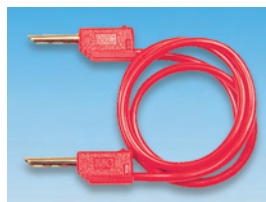
Working voltage 300V CATII maxium current 1A

222440

		Mfrs. List No.	Order Code	1+	+	+
Colour						
Black		659187-21	746-370	13.63	--	--
Red		659187-22	746-381	13.63	--	--

Stackable, 2mm Plugs

MC



PVC test leads, 300mm in length terminated at each end with 2mm gold plated hermaphrodite stackable plugs. Working voltage, 240V ac maximum current 10A.

Mfrs. List Nos: 21.0170-1 = 152-746
21.0170-4 = 152-747

222343

		Order Code	1+	10+	25+	50+
Colour						
Red		152-746	8.20	7.42	6.65	6.09
Black		152-747	8.20	7.42	6.65	6.09

Stackable, 2mm

HIRSCHMANN

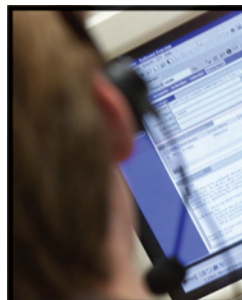


Miniature injection-moulded test lead with shatter-proof handle and PVC cable. Connector diameter 2mm, nickel-plated brass. 2mm dia. socket for stacking. Gold plated copper beryllium contact spring. Highly flexible 0.5mm² stranded wire. Working Voltage 50V, Current 6A. Available in various lengths.

Mfrs. Part No. MVL2/ +Length + Colour

222389

		Order Code	1+	10+	50+	100+
Length/Colour						
250mm						
Red		523-562	10.14	8.61	7.56	6.06
Black		523-574	10.14	8.61	7.56	6.06
500mm						
Red		523-586	10.80	9.18	8.25	6.93
Black		523-598	10.80	9.18	8.25	6.93
1000mm						
Red		523-604	12.36	10.51	9.48	7.61
Black		523-616	12.24	10.41	9.39	7.53



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Compliant
Non-compliant
Limited stock - RoHS replacement available
RoHS

13

Connectors - Test

2.0mm Test Lead Kit

MC



A kit of 2mm plugs, sockets and highly flexible cable to make up test leads for standard and safety applications. Supplied in a plastic case. The kit comprises:

Order Code	Quantity	Colour
2mm Stackable Plugs		
299-807	10	Black
299-790	10	Red
2mm In Line Plugs		
413-0303	10	Black
413-0315	10	Red
2mm In Line Sockets		
413-0327	10	Black
413-0339	10	Red
Highly Flexible Cable		
413-0340	10m	
413-0352	10m	
2mm Safety Stackable Plugs		
413-0364	10	Black
413-0376	10	Red
2mm Test Probes		
746-691	1	Black
746-708	1	Red
2mm Test Hooks 90° Probes		
746-370	1	Black
746-381	1	Red
2mm Crocodile Clips		
746-435	1	Black
746-447	1	Red
Adaptor 4mm to 2mm		
746-411	1	Black
746-423	1	Red

238782

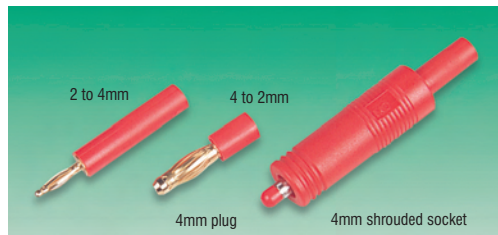
	Mfrs. List No.	Order Code	1+	+	+
2mm Test Lead Kit	21012	413-0285	207.11	--	--

2mm to 4mm Adaptors

Adaptors

2mm to 4mm, 4mm to 2mm

MC



A range of adaptors suitable for converting and inter-connecting 2mm and 4mm connecting leads and plugs. Also a 4mm plug protected by a retractable shroud to convert to a 4mm shrouded socket. Maximum current 25A.

Mfrs. List No. 24.0115-1=152-740, 24.0106-1=152-742, 24.0166-1=462-834, 24.0115-4=152-741, 24.0106-4=152-743

209769

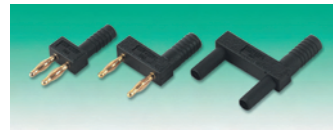
Mfrs. List No.	Colour	Order Code	1+	10+	25+	50+	+
2mm Plug - 4mm Socket							
24.0115-1	Red	152-740	8.12	7.70	7.48	6.84	--
24.0115-4	Black	152-741	8.12	7.70	7.48	6.84	--
4mm Plug - 2mm Socket							
24.0106-1	Red	152-742	5.87	5.54	5.25	4.41	--
24.0106-4	Black	152-743	6.54	6.16	5.84	4.93	--
4mm Plug - 4mm Shrouded Socket							
24.0166-1	Red	462-834	8.14	7.42	6.88	6.13	--

Bridging Links

Bridging Links

2.0mm and 4.0mm

MC



A selection of standard and touch-protected bridging links

- Vibration proof contacts
- High corrosion resistance
- Low contact resistance
- Asymmetrically positioned safety socket

	2.0mm Standard	2.0mm Safety	4.0mm Standard
Current Rating	10A	10A	32A
Rated Voltage	3060V ac / V dc	600V CAT II	3060V ac / V dc
Temperature range	-40°C80°C to +	-40°C80°C to +	-40°C80°C to +
Insulation	PABlack	PABlack	PABlack
Contacts	BrassGold plated	BrassGold plated	BrassGold plated

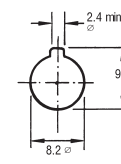
238725

Plug Spacing mm	Mfrs. List No.	Order Code	1+	10+	50+	100+
2.0mm Bridge Links						
5.08	63.9847-21	413-0182	11.12	10.12	9.43	8.88
12.0	63.9848-21	413-0194	11.47	10.40	9.73	9.07
2.0mm Bridge Links - Safety						
19.0	65.9849-21	413-0200	11.46	10.40	9.73	8.83
4.0mm Bridge Links						
11.0	64.9301-21	413-0212	13.48	12.29	11.46	10.83
14.0	20.1020-21	413-0224	15.14	13.75	12.81	11.95

3mm Connectors

3mm 10A

Belling Lee



317-093
L=30.6, Dia=11.2

317-111

Uses the O-Z principle which is devised to provide particularly low resistance so that heavy current contacts will not jump out under vibration.

Break down voltage	5kV dc	Housing	Polypropylene
Current rating	10A	Maximum cable entry for L378A3	4mm
Maximum temperature	+85°C		

209722

	Mfrs. List No.	Order Code	1+	100+	250+	500+
Free Plug	L378A/3/RED	317-093	4.72	4.27	3.92	3.43
	L378A/3/BLACK	317-100	4.56	4.11	3.82	3.34
Panel Socket	L1317/RED	317-111	3.43	2.99	2.79	2.56
	L1317/BLACK	317-123	3.43	2.99	2.79	2.56

4mm Plugs and Sockets

4mm Couplers

HIRSCHMANN



Insulated couplers for two 4mm dia. plugs or one plug and wire with solder connection.

Operating voltage	60V dc
Continuous load current	10A
Contact resistance	5mΩ max
Temperature range	-25°C to +70°C
Housing	Polystyrol UL94-HB PVC (KUN30)
Contacts	Brass, Nickel plated
Max wire size solder	2.5mm ²
Max wire size screw	1.5mm ²

Mfrs. List No. KD10+colour Socket to socket, KUN30+colour Free socket, solder terminal, KUN10+colour Free Socket, Screw Terminal

209806

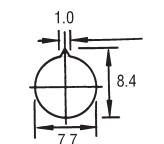
5 Per Pack	Order Code	1+	10+	25+	50+	+
Socket to Socket						
Red	496-017	9.61	8.20	7.23	5.90	--
Red	117-6447	9.61	8.20	7.23	5.90	--
Black	496-029	9.51	8.12	7.16	5.84	--
Black	117-6448	9.51	8.12	7.16	5.84	--

5 Per Pack		Price Per Pack				
Order Code	1 +	10 +	25 +	50 +	+	
Free Socket, Solder						
Red 496-110	9.91	8.46	7.55	6.38	--	
Red 117-6449	9.91	8.46	7.55	6.38	--	
Black 496-121	9.81	8.38	7.48	6.32	--	
Black 117-6450	9.81	8.38	7.48	6.32	--	
Free Socket, Screw						
Red 810-162	11.91	8.63	6.84	6.15	--	
Black 810-150	12.04	8.72	6.91	6.09	--	

4mm 10A



CLIFF



Mounting hole dimensions

Plug: Cover length=34, Socket: L = 28, Dia = 12
Cover dia = 6.5, Overall length = 45 Maximum panel thickness = 13.5

A low cost range of 4mm plugs and sockets featuring slim style plugs and small diameter sockets enabling increased stacking density.

Mftrs. List No. Plugs P14+ Colour, Sockets S14+ Colour

Free Plugs

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	143-556	Green	143-558	Yellow	143-560
Black	143-557	Blue	143-559	White	143-561

		Price Each			
Order Code	5+	50+	100+	250+	+
All Colours	0.71	0.63	0.60	0.47	--

Panel Sockets

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	145-299	Green	145-301	Yellow	145-303
Black	145-300	Blue	145-302	White	145-304

209723

		Price Each			
Order Code	5+	50+	100+	250+	+
All Colours	1.01	0.87	0.80	0.67	--

4mm Plugs 10A



A range of tubular turned contact 4mm plugs with stainless steel spring contacts. They feature robust tubular solder bucket termination, enabling the plugs to be re-used many times.

L=43.5, Dia=8

Current rating	10A	Contacts:	Body	Brass, nickel plated
Housing	Acetal		Spring	Stainless steel
Mftrs. List No:	550-0500-01. = 149-414	550-0400-01. = 149-537	550-0700-01. = 149-539	
	550-0100-01. = 149-536	550-0200-01. = 149-538	550-0600-01. = 149-540	

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	149-414	Green	149-537	Yellow	149-539
Black	149-536	Blue	149-538	White	149-540

		Price Each			
Order Code	5+	10+	100+	250+	+
All colours	1.14	1.09	1.03	0.87	--

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	110-1098	Green	110-1102	Yellow	110-1104
Black	110-1101	Blue	110-1103	White	110-1105

209724

		Price Each			
Order Code	5+	10+	100+	250+	+
All colours	1.14	1.09	1.03	0.87	--



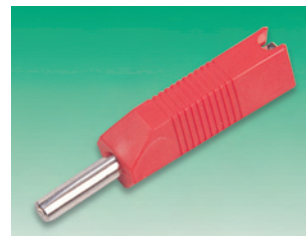
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4mm Stackable Plugs 10A

DELTRON Components



A range of solid turned contact 4mm plugs with a 4mm socket in the rear. Cable connection options, solder or screw (grub screw is accessed via socket tube), cable entry up to 1.5mm² cross section.

Contacts: Body Brass, nickel plated
Spring Stainless steel

Current rating 10A
Housing PVC

L=50, W=10, H=11.5

Mftrs. List No: 553-0500-01. = 149-415 553-0400-01. = 149-542 553-0700-01. = 149-544
553-0100-01. = 149-541 553-0200-01. = 149-543 553-0600-01. = 149-545

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	149-415	Green	149-542	Yellow	149-544
Black	149-541	Blue	149-543	White	149-545

		Price Each			
Order Code	5+	50+	100+	250+	+
All colours	1.84	1.73	1.64	1.48	--

Mftrs. List No: 553-0500-01 = 110-1099 553-0400-01 = 110-1107 553-0700-01 = 110-1111
553-0100-01 = 110-1106 553-0200-01 = 110-1108 553-0600-01 = 110-1112

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	110-1099	Green	110-1107	Yellow	110-1111
Black	110-1106	Blue	110-1108	White	110-1112

209725

		Price Each			
Order Code	5+	50+	100+	250+	+
All colours	1.84	1.73	1.64	1.48	--

4mm Triple Contact Plug 10A

DELTRON Components



The screw-on cover has a large cable entry for audio or test leads and can be fitted after the lead has been made up. The plug has a low mating resistance and screw termination.

L=50, Dia=10, Cable entry=7.1,
Wire dia=3.5 max

Housing Acetal Current rating 10A
Contacts Brass, Nickel plated

Mftrs. List No: 557-0100. = 152-330 557-0100. = 152-330

209726

		Price Each			
Colour	Order Code	5+	50+	100+	250+
Red	152-329	1.18	1.09	1.00	0.96
Red	110-1135	1.18	1.09	1.00	0.96
Black	152-330	1.18	1.09	1.00	0.96
Black	110-1136	1.18	1.09	1.00	0.96

4mm Bunch Pin Plugs 20A

DELTRON Components



The plug features multi-spring bunch pin contacts and a 4mm cross hole to enable multiple connections to one socket.

Current rating 20A
Housing PVC

Contacts Brass, Nickel plated

Mftrs. List No. 555+ Colour

L=60, Dia=10

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	150-033	Green	150-035	Yellow	150-037
Black	150-034	Blue	150-036	White	150-038

		Price Each			
Order Code	1+	50+	100+	250+	+
All colours	3.65	3.57	3.30	2.79	--

Colour	Order Code	Colour	Order Code
Red	110-1120	Blue	110-1124
Black	110-1121	Yellow	110-1125
Green	110-1123	White	110-1126

209727

		Price Each			
Order Code	1+	50+	100+	250+	+
All colours	3.65	3.57	3.30	2.79	--

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13

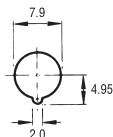
Connectors - Test

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

4mm Panel Sockets 10A



L=29, Dia=11.5,
Panel thickness=13 max.



A range of 4mm panel mounting sockets suitable for 4mm single pole, stackable or standard plugs. The turned contacts feature robust solder buckets for ease of solder termination.

Contacts Brass, Tin plated

Current rating 10A
Housing Polypropylene

Mfrs. List No: 563-0500-01. = 149-416 563-0400-01. = 149-547 563-0700-01. = 149-549
563-0100-01. = 149-546 563-0200-01. = 149-548 563-0600-01. = 149-550

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	149-416	Green	149-547	Yellow	149-549
Black	149-546	Blue	149-548	White	149-550

Order Code	5+	50+	100+	250+	+
All colours	1.18	1.12	1.06	0.93	--

Mfrs. List No: 563-0500-01 = 110-1100 563-0400-01 = 110-1115 563-0700-01 = 110-1118
563-0100-01 = 110-1113 563-0200-01 = 110-1117 563-0600-01 = 110-1119

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	110-1100	Green	110-1115	Yellow	110-1118
Black	110-1113	Blue	110-1117	White	110-1119

209728

Order Code	5+	50+	100+	250+	+
All colours	1.18	1.12	1.06	0.93	--

4mm PCB Sockets 10A



A range of 4mm PCB sockets with two pin through board termination, providing good stability. The sockets are side stackable with dovetail locators.

H=12.2, W=10, D=23.5, Fixing centres=15.5 x 1.8 dia
Socket hole centre=7.5 above board

Current rating 10A
Housing Polypropylene
Contacts Brass, Tin plated

Mfrs. List No: 571-0500. = 150-039 571-0400. = 150-041 571-0700. = 150-043
571-0100. = 150-040 571-0200. = 150-042 571-0600. = 150-044

Mfrs. List No: 571-0500-01 = 110-1127 571-0400-01 = 110-1129 571-0700-01 = 110-1131
571-0100-01 = 110-1128 571-0200-01 = 110-1130 571-0600-01 = 110-1132

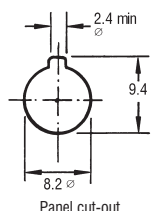
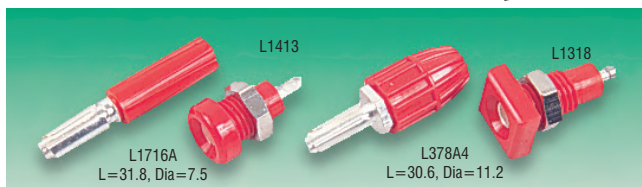
Red	150-039	Green	150-041	Yellow	150-043
Black	150-040	Blue	150-042	White	150-044
Red	110-1127	Green	110-1129	Yellow	110-1131
Black	110-1128	Blue	110-1130	White	110-1132

Order Code	5+	50+	100+	250+	+
All colours	1.64	1.44	1.32	1.03	--

209729

Order Code	5+	50+	100+	250+	+
All colours	1.64	1.44	1.32	1.03	--

4mm 10A



Uses the O-Z principle which is devised to provide particularly low resistance, so that heavy current contacts will not jump out under vibration.

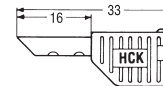
Housing Polypropylene
Maximum cable entry for L378A4 and L1716A 4mm

Breakdown voltage 5kV dc
Current rating 10A
Maximum temperature 85°C

209730

Colour	Mfrs. List No.	Order Code	1+	100+	500+	1K+
Slim Plug						
Red	L1716A/RED	317-135	4.99	3.99	3.64	3.14
Black	L1716A/BLACK	317-147	4.94	3.95	3.60	3.11
Circular Panel Socket						
Red	L1413/RED	317-159	2.70	2.41	2.14	--
Black	L1413/BLACK	317-160	2.70	2.41	2.14	--
Standard Plug						
Red	L378A/4/RED	317-172	4.59	4.11	3.85	3.34
Black	L378A/4/BLACK	317-184	4.64	4.15	3.89	3.37
Square Panel Socket						
Red	L1318/RED	317-226	3.27	2.89	2.73	2.42
Black	L1318/BLACK	317-238	3.27	2.89	2.73	2.42

4mm Hermaphrodite Stackable Plugs 20A



H=12.0, W=8.0

Current rating 20A
Operating voltage 60V dc ac/60V dc
Temperature range -40°C to +75°C

Housing Polyamide 66, UL94-HB
Contacts Beryllium Copper, Nickel plated
Termination Solder

Mfrs. List No. H491N+ Colour

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	143-888	Green	143-889	Yellow	143-891
Black	143-887	Blue	143-890	White	143-892

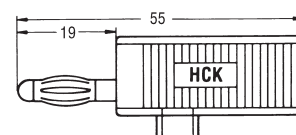
Order Multiple=5	Order Code	5+	50+	100+	250+	+
All colours		3.76	3.37	2.92	2.36	--

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	108-5431	Green	108-5432	Yellow	108-5434
Black	108-5430	Blue	108-5433	White	108-5435

209731

Order Multiple=5	Order Code	5+	50+	100+	250+	+
All colours		3.76	3.37	2.92	2.36	--

4mm Stackable Plugs 30A



H=12.0, W=4.8

Mfrs. List No. L471+ Colour

Current rating 32A
Operating voltage 30V ac ac/60V dc
Temperature range -40°C to +70°C

Housing Polypropylene, UL94-HB
Contacts Beryllium Copper, Nickel plated
Termination Solder

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	143-882	Green	143-883	Yellow	143-885
Black	143-881	Blue	143-884		

Order Code	1+	50+	100+	250+	+
All colours	10.15	8.69	6.97	5.65	--

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	108-5391	Green	108-5392	Yellow	108-5393
Black	108-5389	Blue			

209732

Order Code	1+	50+	100+	250+	+
All colours	10.15	8.69	6.97	5.65	--



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4mm Plugs 16A



Fully mating universal plugs with shatter-proof insulating sleeve. The sleeve narrows at the end to prevent cable buckling. Available with or without 4mm transverse hole and screw terminations.

Operating voltage 50V
Continuous load current 16A
Contact resistance 3mΩ
Temperature range -25°C to +70°C
Housing PVC
Contacts Brass, Nickel plated

Mfrs. List No. VON20+ Colour, no hole, Screw-terminal
VON30+ Colour, no hole, Solder-terminal
VQ20+ colour, transverse hole, Screw-terminal
VQ30+ colour, transverse hole, Solder-terminal

209808

5 Per Pack	Order Code	1+	10+	25+	50+	+
4mm Plug, Screw Terminal						
Black	497-629	10.11	8.60	7.67	6.23	--
Red	497-617	10.11	8.60	7.67	6.23	--
4mm Plug, Solder						
Black	809-950	9.24	6.75	5.35	4.81	--
Red	809-962	9.15	6.68	5.30	4.78	--
4mm Plug with Transverse Hole						
Black	497-678	11.71	9.95	8.95	7.23	--
Red	497-666	11.59	9.85	8.86	7.16	--
Blue	810-046	11.71	9.95	8.95	7.23	--
Blue	117-6473	11.71	9.95	8.95	7.23	--
Yellow	400-2830	11.59	9.85	8.86	7.16	--
Green	400-2842	11.71	9.95	8.95	7.23	--
Assorted	497-691	11.68	9.95	8.92	7.22	--
4mm Plug, Transverse Hole, Solder						
Black	810-058	9.15	5.87	5.59	5.35	--
Black	117-6474	9.15	5.87	5.59	5.35	--
Red	810-060	9.15	5.87	5.59	5.42	--
Red	117-6475	9.15	5.87	5.59	5.42	--
Blue	117-6476	9.15	5.87	5.59	5.26	--

4mm Plugs 32A



- Laminated shatter-proof plug
- Caged spring and tapering sleeve
- Soldered connections up to 2.5sqmm²
- Cable diameters up to 4.2mm²

Rated voltage 60V dc Current rating 32A
Contact resistance 3mΩ
Temperature range -25°C to +70°C

Mfrs. List No. 972518-100 (black), 9725178-101 (red)

210045

5 Per Pack	Order Code	1+	10+	25+	50+	+
Colour						
Red	401-7470	13.93	9.05	8.49	8.04	--
Black	401-7481	13.79	8.96	8.41	7.96	--

4mm Bunch Pin Plugs 16A



Multiple-spring wire plug with shatter-proof flexible insulating sleeve and transverse 4mm hole. The sleeve narrows to prevent cable buckling. Solder or screw connection up to max. cross-section 1.5mm²

Operating voltage 60V dc
Continuous load current 16A
Contact resistance 3mΩ

Solder termination Screw termination
L=60.5, Dia.=11

Temperature range -25°C to +70°C
Housing PVC
Material Brass, Nickel plated

Mfrs. List No. BULA 20K + colour (screw), BULA 30K + colour (solder)

209807

5 Per Pack	Order Code	1+	10+	25+	50+	+
Screw Termination						
Red	495-645	11.38	9.69	8.60	7.00	--
Red	117-6439	11.38	9.69	8.60	7.00	--
Black	495-657	11.49	9.79	8.69	7.07	--
Black	117-6440	11.49	9.79	8.69	7.07	--
Blue	810-083	11.49	9.79	8.69	7.07	--
Blue	117-6477	11.49	9.79	8.69	7.07	--
Yellow	400-2878	11.49	9.79	8.69	7.07	--
Green	400-2880	11.38	9.69	8.60	7.00	--
Assorted	495-682	11.49	9.79	8.69	7.58	--
Assorted	117-6442	11.49	9.79	8.69	7.58	--



5 Per Pack	Order Code	1+	10+	25+	50+	+
Solder Termination						
Red	495-700	10.41	8.89	7.94	6.45	--
Red	117-6443	10.41	8.89	7.94	6.45	--
Black	495-712	10.41	8.89	7.94	6.45	--
Black	117-6445	10.41	8.89	7.94	6.45	--
Blue	810-095	10.31	8.80	7.86	6.39	--
Blue	117-6478	10.31	8.80	7.86	6.39	--
Yellow	400-2891	10.41	8.89	7.94	6.45	--
Green	400-2908	10.41	8.89	7.94	6.45	--
Assorted	495-736	9.67	8.40	7.52	6.48	--
Assorted	117-6446	9.67	8.40	7.52	6.48	--

4mm Stackable Bunch Pin Plugs 30A



Universal plugs with cable inserted longitudinally or at right angles. Screw connection up to a maximum cable cross section of 2.5mm²

L=59

Operating voltage 60V dc Temperature range -25°C to +100°C
Continuous load current 30A Housing Hostalen
Contact resistance 3mΩ Contacts Brass, Nickel plated

Mfrs. List No. VSB20+ Colour Massive connector, screw terminal
BSB20K+ Colour Multiple Spring Wire Connector, screw terminal

209809

5 Per Pack	Order Code	1+	10+	25+	50+	+
VSB20						
Red	809-998	17.57	11.41	10.74	10.13	--
Black	809-986	17.57	11.41	10.74	10.08	--
Blue	810-009	17.40	11.30	10.63	10.17	--
Yellow	400-2910	17.40	11.30	10.63	9.88	--
Green	400-2921	17.57	11.41	10.74	10.23	--
BSB20						
Red	495-530	17.56	14.93	13.32	10.88	--
Red	117-6434	17.56	14.93	13.32	10.88	--
Black	495-542	17.56	14.93	13.32	10.88	--
Black	117-6435	17.56	14.93	13.32	10.88	--
Blue	810-010	15.81	10.21	9.95	9.67	--
Yellow	400-2933	15.81	10.21	9.95	9.67	--
Green	400-2945	15.65	10.11	9.85	9.72	--

4mm Panel Sockets 16A



Closed socket
Panel thickness=2 max.
L=23.5, Dia=10
Cut-out=8

Closed socket
Panel thickness=4 max.
L=23.5, Dia=10
Cut-out=8

Closed sockets are available for different panel thicknesses and can also be solder terminated.

Working voltage 50V dc Contacts Brass, Nickel plated
Temperature range -25°C to +85°C Terminations Solder (closed sockets)
Current rating 16A
Flashover 1500V max.
Contact resistance 5mΩ

224276

5 Per Pack	Order Code	1+	10+	25+	50+	+
Closed Socket, 2mm Panel Thickness						
Red	495-414	10.86	9.24	8.23	6.68	--
Red	117-6427	10.86	9.24	8.23	6.68	--
Black	495-426	10.75	9.15	8.15	6.61	--
Black	117-6428	10.75	9.15	8.15	6.61	--
Blue	495-438	10.75	9.15	8.15	6.61	--
Blue	117-6429	10.75	9.15	8.15	6.61	--
Yellow	859-084	10.86	9.24	8.23	6.68	--
Green	871-760	10.86	9.24	8.23	6.68	--
Closed Socket, 4mm Panel Thickness						
White	871-837	10.75	9.15	8.15	6.61	--
Red	495-463	11.36	9.30	8.30	6.78	--
Red	117-6430	11.36	9.30	8.30	6.78	--
Black	495-475	11.25	9.21	8.22	6.71	--
Black	117-6431	11.25	9.21	8.22	6.71	--

13

Connectors - Test

Compliant
Non-compliant
RoHS
Limited stock - RoHS replacement available

4mm Non-Insulated Panel Socket 16A



Operating voltage 50V dc Temperature range -25°C to +100°C
 Continuous load current 16A Material Brass, Nickel plated
 Contact resistance 5mΩ
 Overall length=BU10=22, BU20=27 Mfrs. List No. BU10, BU20
 Installation=M6 x 0.75

209822

5 Per Pack	Order Code	1+	10+	25+	50+	+
BO10.	495-517	7.35	6.22	5.54	4.50	--
BO10	117-6433	7.35	6.22	5.54	4.50	--
BU10.	495-608	9.68	8.25	7.32	6.00	--
BU10	117-6436	9.68	8.25	7.32	6.00	--
BU20	810-289	9.81	8.35	7.45	6.10	--

4mm, Non-Insulated Panel Socket 16A



Suitable for insulated panels and colour coded for identification.

Overall length=24,
 Installation=M6 x 0.75

Operating voltage 60V dc Temperature range -25°C to +85°C
 Continuous load current 16A Contacts Brass, Nickel plated
 Contact resistance 5mΩ

Mfrs. List No. BUG 10+ Colour

209812

5 Per Pack	Order Code	1+	10+	25+	50+	+
Red	495-621	11.20	9.50	8.52	6.94	--
Red	117-6437	11.20	9.50	8.52	6.94	--
Black	495-633	10.42	9.02	8.07	6.97	--
Black	117-6438	10.42	9.02	8.07	6.97	--
Assorted	495-670	10.98	9.34	8.38	6.81	--
Assorted	117-6441	10.98	9.34	8.38	6.81	--

4mm Shrouded Panel Sockets 16A



- Pole terminal with claw edge and captive insulated head
- 4mm diameter nickel-plated brass threaded bolt with 2mm diameter transverse hole
- For insulated, non-rotating installation in equipment chassis with a wall thickness up to 2mm

Rated voltage 60V dc Contact resistance 2mΩ
 Current rating 35A Temperature Range -25°C to +100°C

Mfrs. List No. 930103-100 (black), 930103-01 (red), 930103-102 (blue), 930103-103 (yellow), 930103-104 (green), 930103-188 (yellow/green)

210044

5 Per Pack	Colour	Order Code	1+	10+	25+	50+	+
PK10A BLUE	Blue	401-7705	20.49	16.80	13.32	11.77	--
PK10A YELLOW	Yellow	401-7717	20.49	16.80	13.32	11.47	--
PK10A GREEN	Green	401-7729	20.49	16.80	13.32	11.42	--
PK10A YEL/GRN	Yellow/Green	401-7730	28.18	23.08	18.26	16.30	--
PK10A RED	Red	401-7742	20.49	16.80	13.32	11.30	--
PK10A BLACK	Black	401-7754	20.29	16.63	13.19	11.61	--

4mm Shrouded Panel Sockets 16A



- Pole terminal with claw edge and captive insulated head
- Insulation ring
- 4mm diameter nickel-plated brass threaded bolt with 2mm diameter transverse hole
- For insulated, non-rotating installation in equipment chassis with a wall thickness upto 3.5mm

Contact resistance 3mΩ Rated voltage 60V
 Temperature range -25°C to +70°C Current rating 16A

Mfrs. List No. 931714-100 (black), 931714-101 (red), 931714-102 (blue), 931714-103 (yellow), 931714-104 (green).

210047

5 Per Pack	Colour	Order Code	1+	10+	25+	50+	+
Black		810-368	19.73	16.11	12.78	10.70	--
Blue		117-6477	11.49	9.79	8.69	7.07	--
Red		810-370	19.94	16.27	12.91	11.29	--
Blue		117-6478	10.31	8.80	7.86	6.39	--
Yellow		400-2751	19.93	16.27	12.91	10.77	--
Green		400-2763	19.74	16.11	12.78	11.22	--

4mm Shrouded Panel Sockets 16A



- Pole terminal with captive insulated head
- Crinkle washer for vibration proof fixing
- 4mm diameter nickel-plated brass threaded bolt with 2mm diameter transverse hole
- For insulated, non-rotating installation in equipment chassis with a wall thickness upto 3.5mm
- Approval, TUV

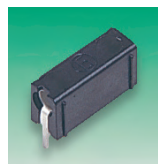
Rated voltage 60V dc Contact resistance 2mΩ
 Current rating 35A Temperature range -25°C to +100°C

Mfrs. List No. = PK1 100 + colour

210048

5 Per Pack	Colour	Order Code	1+	10+	25+	50+	+
Black		810-319	22.21	18.17	14.32	12.64	--
Red		810-320	22.21	18.17	14.32	12.74	--
Yellow		400-2738	22.21	18.17	14.32	12.34	--
Green		400-2740	22.20	18.17	14.32	11.97	--

4mm PCB Sockets 16A



4mm test sockets for PCB measurement and testing during operation. Side stackable and can be screwed on to board with a self-tapping screw from the underside.

H=10.5, W=7.5, D=21, Fixing centres=17.5 x 1.2 dia.
 Socket hole centre=7 (above board)

Operating voltage 50V dc Temperature range -25°C to +85°C
 Continuous load current 16A Housing Makrolon, UL94V-1
 Contact resistance 5mΩ Contact material Brass, Tin plated

Mfrs. List No. PB 4+ Colour

209817

5 Per Pack	Order Code	1+	10+	25+	50+	+
Black	497-344	19.83	16.89	15.01	12.25	--
Red	497-332	19.63	16.72	14.86	12.13	--

PCB Mount RA Safety Sockets

4.0mm



Fully insulated safety universal socket for accepting 4mm safety leads or any other 4mm plug

- 2mm round pin for PCB mounting
- High contact reliability

Current Rating 24A Current Rating 24A
 Rated Voltage 1000V CAT III Rated Voltage 1000V CAT III
 Temperature range -40°C to +80°C Contacts Brass, Gold plated
 Insulation PA

238729

Colour	Mfrs. List No.	Order Code	1+	10+	50+	100+
Black	23.3200-21	108-5521	10.70	9.73	9.05	8.42
Black	23.3200-21.	413-0250	10.70	9.73	9.05	8.42
Red	23.3200-22	413-0261	10.70	9.73	9.05	8.46

4.0mm Test Lead Kit



A kit of 4mm plugs sockets and highly flexible cable to make up test leads for standard and safety applications. Supplied in a plastic case. The kit comprises:

Order Code	Quantity	Colour
4mm Stackable Safety Plugs		
269-402	14	Black
269-396	14	Red
269-426	6	Blue
269-438	6	Yellow
269-414	6	Green
4mm In Line Safety Sockets		
413-0388	4	Black

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

Order Code	Quantity	Colour
413-0390	4	Red
4mm In Line Safety Plugs		
225-058	4	Red
225-060	4	Black
4mm RA Safety Plugs		
462-950	4	Red
462-962	4	Black
Highly Flexible Double Insulated PVC Cable		
413-0420	5m	Blue
413-0418	5m	Yellow
413-0418	5m	Green
297-756	5m	Red
297-768	5m	Black

239823

Mfrs. List No.	Order Code	1+	+	+
4mm Test Lead Kit	20546	413-0297	331.36	-- -- --

4mm Shrouded Connectors

4mm Shrouded Panel Sockets 16A



- Pole terminal with captive insulated head
- Crinkle washer for vibration proof fixing
- 4mm diameter nickel-plated brass threaded bolt with 2mm diameter transverse hole
- For insulated, non-rotating installation in equipment chassis with a wall thickness upto 3.5mm
- Approval, TUV

Rated voltage	60V dc	Contact resistance	2mΩ
Current rating	35A	Temperature range	-25°C to +100°C

Mfrs. List No. = PKI 100 + colour

210048

5 Per Pack	Order Code	1+	10+	25+	50+	+
Colour						
Black	810-319	22.21	18.17	14.32	12.64	--
Red	810-320	22.21	18.17	14.32	12.74	--
Yellow	400-2738	22.21	18.17	14.32	12.34	--
Green	400-2740	22.20	18.17	14.32	11.97	--

Shrouded Plugs



Overall length=50, Diameter=8.5,
Cable entry=4.0, Wire size=2.5mm²
max.

Slimline fully insulated safety plugs with fixed shroud. The centre pin has an insulated tip and multi-leaf bunch spring contact. Suitable for use with shrouded sockets. Manufactured to VDE0100/0110 and BG approved.

Current rating	32A	Housing	Polyamide, UL94V-2
Operating voltage	1000V	Contacts	Brass, Gold plated
Contact resistance	0.3mΩ	Termination	Solder bucket
Temperature range	-10°C to +70°C		

209759

Colour	Order Code	1+	10+	20+	50+
Red	225-058†	25.74	23.34	20.68	17.93
Red	108-5461●	25.74	23.34	20.68	17.93
Black	225-060†	25.74	23.34	20.68	17.93
Black	108-5462●	25.74	23.34	20.68	17.93

Stackable Shrouded Plugs 32A



H=17, W=10, L=53,
Cable entry=4.0, Wire size=2.5mm²
max.

Fully insulated safety plugs with (non-removable) shroud. The centre pin has an insulated tip and multi-leaf bunch spring contact. Suitable for use with shrouded sockets. Manufactured to VDE 0100/0110, IEC1010-1 and BG approved.

Current rating	32A	Housing	Polyamide, UL94V-2
Operating voltage	1000V/ CAT II	Contacts	Brass, Gold plated
Contact resistance	0.3mΩ	Termination	Solder
Temperature range	-10°C to +80°C		

Mfrs. List No. 22.2310-x=22.1022, where x = 1-red, 2-blue, 3-white, 4-black, 5-yellow, 6-green

209734

5 Per Pack	Order Code	1+	10+	20+	50+
Colour					
Red	269-396†	30.90	27.98	26.42	24.73
Red	108-5471●	30.90	27.98	26.42	24.73
Black	269-402†	30.90	27.98	26.42	24.73
Black	108-5472●	30.90	27.98	26.42	24.73
Green	269-414†	30.90	27.98	26.42	24.73

5 Per Pack	Order Code	1+	10+	20+	50+
Colour					
Green	108-5473●	30.90	27.98	26.42	24.73
Blue	269-426†	33.01	29.31	26.91	24.81
Blue	108-5474●	33.01	29.31	26.91	24.81
Yellow	269-438†	31.03	28.14	26.49	24.81
Yellow	108-5476●	31.03	28.14	26.49	24.81
White	269-440†	33.01	29.31	26.91	24.81
White	108-5477●	33.01	29.31	26.91	24.81

Stackable Shrouded Plugs 20A

MC



H = 24, W = 10, L = 63

A range of stackable fully insulated plugs. The centre conductor features an insulated tip and multi-leaf bunch spring contact to the plug and a solid tube socket. Cable connection options, solder or screw (grub screw is accessed via socket tube), cable entry up to 1mm² cross section.

Current Rating	20A	Housing	Polyamide 66, UL94-HB
Operating Voltage	1000V CATII	Contacts	Brass, nickel plated
Temperature Range	-40°C to +75°C	Termination	Solder bucket/screw

Mfrs. List No: XL459/30 + Colour

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	149-457	Green	149-494	Yellow	149-496
Black	149-458	Blue	149-495		

Order Multiple=5	Order Code	5+	50+	Price Each	100+	250+	+
All Colours		8.10	6.68	5.90	4.99	--	--

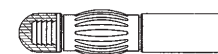
Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	108-5447	Green	108-5452	Yellow	108-5454
Black	108-5449	Blue	108-5453		

209733

Order Multiple=5	Order Code	5+	50+	Price Each	100+	250+	+
All Colours		8.10	6.68	5.90	4.99	--	--

Retractable Shroud Plugs 32A

MC



H = 15, W = 9.5, L = 53, Cable entry = 4.0

A 4mm stackable plug offering protection against accidental touching. A transparent sleeve over the multi-leaf bunch spring contact is spring loaded and retracts when the plug is connected into 4mm standard or shrouded sockets. A high temperature iron is required to attach the cable.

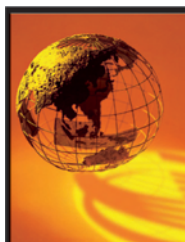
Current Rating	32A	Housing	Polyamide, UL94V-2
Operating Voltage	30Vac/60Vdc	Contacts	Brass, nickel plated
Contact resistance	1.8mΩ	Termination	Solder
Temperature Range	-10°C to +70°C		

Mfrs. List No: 22.2340-1+22.1035. = 225-101

22.2340-4+22.1035. = 225-113

209758

5 Per Pack	Order Code	1+	10+	20+	50+
Colour					
Red	225-101†	35.56	32.07	28.34	24.81
Red	108-5464●	35.56	32.07	28.34	24.81
Black	225-113†	35.56	32.07	28.34	24.81
Black	108-5465●	35.56	32.07	28.34	24.81



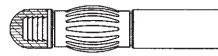
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Can't find the product
you are looking for?

Compliant
Non-compliant
RoHS
Limited stock - RoHS replacement available

Right Angle Shrouded Plugs 32A

MC



Height = 16 (above socket), W = 9.5, D = 32,
Cable entry = 4.0

Nickel plated fully insulated plugs with non-removable shrouds. The centre pin has an insulated tip and multi-leaf bunch spring contact. Suitable for use with shrouded sockets.

Current Rating	32A	Housing	Polyamide, UL94V-2
Operating Voltage	1000 CATIV	Contacts	Brass, nickel plated
Contact resistance	0.3mΩ	Termination	Solder
Temperature Range	-40°C to +80°C		

Mfrs. List No: 22.2370-x+221042, where x = 1-red, 4-black

209794

5 Per Pack	Order Code	1+	10+	20+	50+
Colour					
Red	462-950‡	35.37	31.00	28.40	24.57
Red	108-5531●	35.37	31.00	28.40	24.57
Black	462-962‡	35.37	31.00	28.40	24.57
Black	108-5532●	35.37	31.00	28.40	24.57

Shrouded Sockets 24A

MC



Press-Fit

Panel cut-out = 12.2±0.1
Panel thickness ≥ 1 metal ≥ 2 plastic

Screw Mount

Panel cut-out = 12 (M12 thread)
Panel thickness = 7 max.

Tab size = 4.8 x 0.8, Depth behind panel = 21 (terminal at 90°), Dia = 14.5 max.

Screw mount or press-fit insulated safety sockets for use with shrouded plugs. The 4.8mm tabs can be bent to 90°, once only where space is restricted.

Current Rating	24A	Housing	Polyamide, UL94V-2
Operating Voltage	CATII	Contacts	Brass, nickel plated
Contact resistance	0.8mΩ	Temperature Range	-40°C to +80°C

Mfrs. List No: Screw mount = 23.3070-x
where x = 1-red, 2-blue, 4-black, 5-yellow, 6-green

219836

	Order Code	1+	10+	20+	50+
Press Fit					
Red	462-913‡	14.17	13.00	11.93	10.40
Red	108-5526●	14.17	13.00	11.93	10.40
Black	462-925‡	14.17	13.00	11.93	10.40
Black	108-5527●	14.17	13.00	11.93	10.40
Assorted	462-937‡	16.40	14.96	13.55	11.84
Assorted	108-5528●	16.40	14.96	13.55	11.84
Screw mounted					
Red	462-883‡	17.72	16.24	14.89	13.23
Red	108-5523●	17.72	16.24	14.89	13.23
Black	462-895‡	17.90	16.40	15.04	13.36
Black	108-5524●	17.90	16.40	15.04	13.36
Assorted	462-901‡	18.46	16.72	15.34	13.64
Assorted	108-5525●	18.46	16.72	15.34	13.64

Shrouded Sockets 32A

MC



Tab = 6.35 x 0.8, L = 33, Dia = 14.5 max Stud = M4 x 15, L = 39, Dia = 14.5 max
Panel thickness = 12 max., Panel cut-out = 12 (M12 thread)

Fully insulated safety sockets for use with shrouded plugs. Available in tab or stud termination. Stud termination can either be by the stud or via the solder bucket in the end of the stud. Manufactured to VDE 0100/0110, IEC1010-1 and BG approved.

FOR PANEL ASSEMBLY TOOLS 225-071, SEE WEBSITE

Current Rating	1000V	Contacts	Brass, Gold, plated
Operating Voltage	CATII	Termination	Screw or Solder
Temperature Range	-40°C to +80°C		

Mfrs. List No: Tab = 23.3060-x
where x = 1-red, 2-blue, 3-white, 4-black, 5-yellow, 6-green

209736

5 Per Pack	Order Code	1+	10+	20+	50+
Colour					
Tab Termination					
Red	225-034‡	24.25	21.98	19.58	17.02
Red	108-5459●	24.25	21.98	19.58	17.02
Black	225-046‡	24.25	21.98	19.58	17.02
Black	108-5460●	24.25	21.98	19.58	17.02
Green	269-451‡	24.25	21.98	19.58	17.02
Green	108-5478●	24.25	21.98	19.58	17.02
Blue	269-463‡	24.25	21.98	19.58	17.02
Blue	108-5479●	24.25	21.98	19.58	17.02
Yellow	269-475‡	24.25	21.98	19.58	17.02
Yellow	108-5480●	24.25	21.98	19.58	17.02
White	269-487‡	24.25	21.98	19.58	17.02
White	108-5481●	24.25	21.98	19.58	17.02
Stud Termination					
Red	269-499‡	27.52	24.84	23.60	22.08
Red	108-5482●	27.52	24.84	23.60	22.08
Black	269-505‡	27.25	24.59	23.37	21.86
Black	108-5483●	27.25	24.59	23.37	21.86
Green	269-517‡	27.52	24.84	23.60	22.08
Green	108-5484●	27.52	24.84	23.60	22.08
Blue	269-529‡	27.52	24.84	23.60	22.08
Blue	108-5485●	27.52	24.84	23.60	22.08
Yellow	269-530‡	27.25	24.59	23.37	21.86
Yellow	108-5486●	27.25	24.59	23.37	21.86
White	269-542‡	27.52	24.84	23.60	22.08
White	108-5488●	27.52	24.84	23.60	22.08

Straight Safety Connector, 4mm

LAS S G Series



- Screw connection for leads from 0.5 mm² to 1.5 mm²
- 4mm plug with caged spring
- Simple "click-system" as-sembly

Rated Voltage	1000V
Rated Current	24A
Safety Standard	IEC 61010
Temperature Range	-15°C to +70°C

NEW

373937

Colour	Order Code	1+	10+	25+	50+
Black	828-2200●	3.81	3.42	3.12	2.86
Red	828-2218●	3.81	3.42	3.12	2.86
Green	828-2226●	3.81	3.42	3.12	2.86
Blue	828-2234●	3.81	3.42	3.12	2.86
Yellow	828-2242●	3.81	3.42	3.12	2.86

Angled Safety Connector, 4mm

LAS S W Series



- Screw connection for leads from 0.5 mm² to 1.5 mm²
- 4mm plug with caged spring
- Simple "click-system" assembly

Rated Voltage	1000V
Rated Current	24A
Safety Standard	IEC 61010 1000V CATIII
Temperature Range	-15°C to +70°C

NEW

373944

Colour	Order Code	1+	10+	25+	50+
Black	828-2250●	4.43	4.00	3.61	3.32
Red	828-2269●	4.43	4.00	3.61	3.32
Blue	828-2277●	4.43	4.00	3.61	3.32
Green	828-2285●	4.43	4.00	3.61	3.32
Yellow	828-2293●	4.43	4.00	3.61	3.32

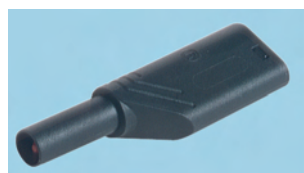


- FREE to all account holders
- Notification of obsolete, end of line and end of stock items
- Replacement or upgrade recommendations

**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.

Stacking Safety Connector, 4mm LAS S WS Series



- Stackable connection system
- Screw connection for leads from 0.5 mm² to 1.5 mm²
- 4mm plug with caged spring
- Simple "click-system" assembly

NEW

Rated Voltage 1000V AC/DC
Rated Current 24A
Safety Standard IEC 61010 1000V Cat II
Temperature Range -15°C to +70°C

373946

		Price Each			
	Order Code	1+	10+	25+	50+
Black	828-1947	3.55	3.39	3.03	2.77
Red	828-1955	3.55	3.39	3.03	2.77
Blue	828-1963	3.55	3.39	3.03	2.77
Yellow	828-1971	3.55	3.39	3.03	2.77
Green	828-1980	3.55	3.39	3.03	2.77

Extra Flexible Cable

Double Insulated-Extra Flexible PVC or 'Thermoflex'

MC


Extra flexible multi-stranded fine plain copper conductors with either PVC or 'Thermoflex' (cross linked thermoplastic) double insulation. Suitable for test lead applications over a wide temperature range. Available in Red or Black with White inner insulation for inspection purposes.

	PVC	Thermoflex
Nominal outside diameter	4mm	4mm
Conductor size	651/0.07mm	462/0.08mm
Conductor area	2.5mm ²	2.5mm ²
Voltage rating	1500V	1000V
Current rating	32A	32A
Operating temperature	-10°C to +70°C	-30°C to +90°C (cont) -30°C to +120°C (10 mins) +300°C (10 secs)
Soldering iron resistant	—	—

224277

5m Coils	Mfrs. Colour	List No.	Order Code	1+	5+	+	+
PVC							
Red	60.7033-22	RED 5M	297-756	28.20	26.99	—	—
Black	60.7033-21	BLK 5M	297-768	28.20	26.99	—	—
Thermoflex							
Black	22.0180-4	BLK 5M	297-781	45.04	41.00	—	—

Panel Mounting Terminals

45° Fork 20A

MC


Fork terminals for mating stud terminals up to 6mm diameter with standard or shrouded 4mm plugs.

Overall length = 43.2

Current Rating 20A
Working Voltage 1000V CATII
Contact Resistance 0.3mΩ
Temperature Range -40°C to +80°C
Housing Polyamide, UL94V-2
Contacts Brass, Gold plated

Mfrs. List No: 23.0440-x where x = 1-red, 4-black

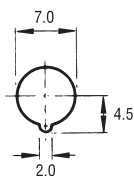
209793

2 Per Pack	Order Code	1+	10+	25+	50+
Red, Black	462-974	23.15	20.91	19.13	16.96
Red, Black	108-5533	23.15	20.91	19.13	16.96

4mm Insulated, 15A



Base dia = 13.0, Height closed = 37.0,
Height open = 44.0



Panel cut-out

All terminals are supplied with panel insulating sets, with location key-way, double plain washers and solder tag for connection.

Contacts Brass, Nickel plated	Housing Polypropylene
Current Rating 15A @ 250V ac	
Mfrs. List No: TP/1 + colour	
Colour Order Code	Colour Order Code
Red 143-550	Green 143-552
Black 143-551	Blue 143-553
	Yellow 143-554
	White 143-555

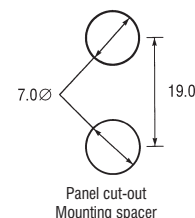
209737

Order Code	1+	50+	100+	250+	+
All Colours	2.66	2.41	2.28	1.86	—

4mm Insulated, 30A



4mm cross hole



H = 47 (open), 40 (closed), D = 15, Maximum panel thickness = 6

Designed for heavy duty applications the terminals feature extra large cross holes (4mm) for heavy conductors or even 4mm plugs. The castellated knob enables a handy coin to exert the required pressure for heavy current applications.

Current Rating 30A @ 250V ac

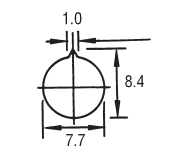
Mfrs. List No: Terminal = TP/6S + colour Spacer = TPP/1

Warning: Not suitable for use as speaker output/input on audio equipment in accordance with the UK/EC safety standard **BS EN 60065**.

209738

Colour	Order Code	1+	5+	50+	100+	+	+
Red	148-250	4.57	4.17	3.98	3.34	—	—
Black	148-251	4.57	4.17	3.98	3.34	—	—
Green	148-252	5.45	5.23	4.85	4.04	—	—
Brown	148-253	5.46	5.23	4.85	4.04	—	—
Blue	148-254	5.45	5.23	4.85	4.04	—	—
Yellow	148-255	5.45	5.26	4.85	4.08	—	—
Order Multiple=5		5+	50+	100+	250+	+	+
Black Spacer	148-256	0.57	0.54	0.47	0.36	—	—

4mm 10A



Mounting hole dimensions

Plug: Cover length=34, Cover dia = 6.5, Overall length = 45
Socket: L = 28, Dia = 12
Maximum panel thickness = 13.5

A low cost range of 4mm plugs and sockets featuring slim style plugs and small diameter sockets enabling increased stacking density.

Mfrs. List No. Plugs P14+ Colour, Sockets S14+ Colour

Free Plugs

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	143-556	Green	143-558	Yellow	143-560
Black	143-557	Blue	143-559	White	143-561

Order Code	5+	50+	100+	250+	+
All Colours	0.71	0.63	0.60	0.47	—

Panel Sockets

Colour	Order Code	Colour	Order Code	Colour	Order Code
Red	145-299	Green	145-301	Yellow	145-303
Black	145-300	Blue	145-302	White	145-304

209723

Order Code	5+	50+	100+	250+	+
All Colours	1.01	0.87	0.80	0.67	—

13

Connectors - Test

Compliant
Non-compliant
Limited stock - RoHS replacement available

RoHS

2mm Panel Plug

MC



- Multi purpose gold plated 2mm plug
 - Used in conjunction with PCBs for instrumentation
 - M2 thread
- L = 23, Cut-out = M2

Contact Rating	25A	Contact	Copper alloy, Gold plated
Contact resistance	≤0.4mΩ	Temperature (max)	150°C

209956

Mfrs. List No.	Order Code	5+	50+	100+	250+	+
22.1100.	972-460†	3.11	2.54	2.28	1.86	--
22.1100	108-5562●	3.11	2.54	2.28	1.86	--

13

Connectors - Test

4mm Panel plugs 16A

HIRSCHMANN



- Fully mating connectors as built in
- VST20 for solder pin connection up to 2mm², VST100 for screw connection up to 2.5mm²

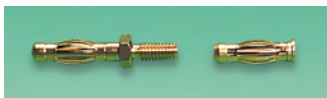
Material	Brass, Nickel plated
Rated Voltage	60V DC
Rated Current	16A
Contact resistance	3mΩ
Temperature range	-25°C to +100°C

210053

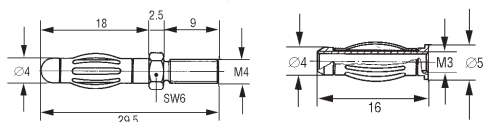
5 Per Pack	Order Code	1+	10+	25+	50+	+
VST20	497-850●	12.82	10.82	9.76	7.83	--
VST100	810-721●	8.70	7.10	5.61	5.03	--

4mm Panel Plug

MC



L = 29.5, Cut-out = M4



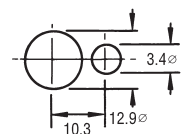
- Multi purpose gold plated 4mm plug
- Used in conjunction with PCB's, for instrumentation and power units
- Available with M4 threaded stud or M3 internal thread

209827

Order Multiple=5	Mfrs. List No.	Order Code	5+	50+	100+	250+	+
Threaded stud (M4)	22.1053.	749-850†	4.50	3.86	3.46	2.79	--
Threaded stud (M4)	22.1053	108-5560●	4.50	3.86	3.46	2.79	--
Threaded stud (M4)	22.1054.	749-862†	3.47	2.95	2.63	2.15	--
Internal thread (M3)	22.1054	108-5561●	3.47	2.95	2.63	2.15	--

30A

Belling Lee



Panel cut-out

Overall length = 63, Overall dia = 25
Panel thickness = 1.6 to 23.8, Stem thread = OBA

An insulated terminal with non-rotating red or black centre disc suitable for lettering. The terminal has a black easy grip collar and is supplied with a panel fitting kit.

Contact Rating	30A	Housing	Phenolic resin
Breakdown Voltage	3000V dc min	Stud	Brass, Nickel plated
Temperature range	-25°C to +85°C	Termination	Screw

Mfrs. List No: L309/1/F/RED = 225-654 L309/1/F/BLACK = 225-666

209746

	Order Code	1+	25+	50+	100+
Red	225-654●	17.78	15.79	14.64	13.86
Black	225-666●	17.96	15.95	14.79	13.99

Crocodile Clips

Miniature Insulated

multicomp



Clip L = 30 Overall L = 40

- General purpose miniature insulated crocodile clips

Material	Steel, Nickel plated	Insulation	PVC
Current rating	1A max	Connection type	Solder

230706

	Order Code	5+	+	+	+
Red	116-9601●	0.14	--	--	--
Black	116-9604●	0.09	--	--	--

Insulated 2mm

HIRSCHMANN



Miniature crocodile clips with very fine serrated jaws. The flat part of the clamping jaw ensures that even extremely thin wires are clamped securely. For use with 2mm plugs. Nickel plated brass jaws and unbreakable plastic insulation.

Overall length = 41.5, Clamping limit = 3

Current Rating	5A	Housing	Polypropylene
Temperature range	-25°C to +100°C	Contacts	Brass, Nickel plated

Mfrs. List No: MA1 RED+BLACK

209813

1 Pair Per Pack	Order Code	1+	10+	25+	50+	+
Red, Black	496-145	6.51	5.59	4.94	4.04	--

Insulated 2mm

MC



Miniature crocodile clips with very fine serrated jaws. Cables can either be plugged into the 2mm socket or solder and crimp terminated.

Overall length = 41, Clamping limit = 3

Current Rating	5A	Housing	Hostalen
Voltage Rating	30V ac, 60V dc	Material	Brass, Tin plated
Temperature range	-25°C to +80°C		

Mfrs. List No: 24.0154-1 = 152-427

24.0154-4 = 152-428

209749

	Order Code	1+	10+	50+	100+	+
Red	152-427	5.51	5.09	4.70	4.05	--
Black	152-428	5.51	5.09	4.70	4.05	--

4mm 5A

DELTRON Components



Overall length = 51, Clamping limit = 15mm at point of jaws

Crocodile clip in nickel plated steel that will accept a 4mm plug. (A turned brass screw allows wires to be held securely). PVC insulating covers in red and black are available separately.

Mfrs. List No: 303-0000-01 = 110-1094

303-0000-01 = 110-1094

CROC CLIP INSULATING COVER, RED = 147-005

CROC CLIP INSULATING COVER, BLACK = 147-018

209747

	Order Code	10+	50+	100+	250+	+
Crocodile clip	147-003	0.77	0.71	0.60	0.47	--
Crocodile clip	110-1094●	0.77	0.71	0.60	0.47	--
Red insulating cover	147-005●	0.69	0.62	0.59	--	--
Black insulating cover	147-018●	0.69	0.62	0.59	--	--

Insulated 4mm 10A



A 10 Amp insulated crocodile clip that will accept 4mm plug or thin stranded wire which may be retained by using an integral screw.

Clamping limit = 15mm at point of jaws

Mfrs. List No: 307-0500 = 119-3801 307-0100 = 119-3804

209750

	Order Code	1+	20+	50+	100+
Red	119-3801	8.35	7.61	7.25	6.81
Black	119-3804	8.35	7.61	7.25	6.81

Insulated 4mm 15A



Touch-proof insulated clips for use with 4mm standard or shrouded plugs. Complies with IEC1010-2/3.

Overall length = 53.5, Clamping limit = 11

Current Rating	15A	Housing	Polyamide
Working Voltage	300V CATII	Contacts	Brass, Nickel plated
Temperature range	-40°C to +80°C		

Mfrs. List No: 24.0157-1 = 225-083 24.0157-4 = 225-095

209760

5 Per Pack	Order Code	1+	10+	20+	50+
Red	225-083	40.69	37.00	32.94	28.50
Black	225-095	40.69	37.00	32.94	28.50

Insulated 4mm 20A



Accepts 4mm standard plugs or can be screw terminated. Unbreakable insulation on all sides, conforming to DIN 57 470 Pt 1. Clamps fine wires and pins up to 9.5mm.

Mfrs. List No: AK2S RED AND BLACK

Overall length = 80.5, Clamping limit = 9.5	
Current Rating	20A
Working Voltage	50V
Contact resistance	10mΩ
Clamping force at tip (max)	10N
Temperature range	-25°C to +100°C
Housing	Polypropylene
Material	Brass, Tin plated

209821

1 Pair Per Pack	Order Code	1+	10+	25+	50+	+
Red, Black	495-311	11.74	9.95	8.92	7.26	--

Shrouded 4mm 32A 'Dolphin'



Touch proof insulated clips for use with 4mm standard or shrouded plugs. With a large clamping limit, easy grip body and flat clamp area for fine wires. Complies to IEC1010-2-031. Supplied in pairs of red and black.

Current Rating	32A
Rated Voltage	1000V CAT III
Temperature range	to +80°C
Housing	Polyamid, UL94V-2
Material	Brass, Nickel plated

Clamping limit = 30

Mfrs. List No: 66.9575-22 = red 66.9575-21 = black

209797

1 Pair Per Pack	Order Code	1+	10+	25+	50+	+
Red and Black	338-3507	24.93	23.41	21.40	18.03	--



RoHS Directive

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

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

Battery Clip 20A



Overall length = 75.5

Exceptionally good grip makes the clip ideally suited for use as a battery or terminal clip. Cables can be screw and crimp terminated onto the bright nickel plated steel clip. PVC insulating covers in red and black are available separately.

Clamping limit = 30mm at point of jaws

Mfrs. List No: 304-0000-910 = 110-1133
BATT CLIP INSULATING COVER, RED = 152-327
BATT CLIP INSULATING COVER, BLACK = 152-328

209751

	Order Code	1+	10+	50+	100+	+
Crocodile clip	152-326	1.54	1.41	1.35	1.06	--
Crocodile clip	110-1133	1.54	1.41	1.35	1.06	--
Red insulating cover	152-327	3.01	2.80	2.67	--	--
Black insulating cover	152-328	3.01	2.80	2.67	--	--

Battery Clip



Current Rating 25A
Material Steel, Hot Tin dipped

Mfrs. List No: CR0028 = 317-494

Overall length = 58.7,
Clamping limit = 14.5 at point of jaws

227398

	Order Code	1+	100+	250+	500+	+
	317-494	4.57	3.95	3.43	3.02	--

Shrouded 4mm 15A



Current Rating 15A
Working Voltage 1000V
Temperature range -25°C to +80°C
Housing Polypropylene, UL94-HB
Material Brass, Nickel plated

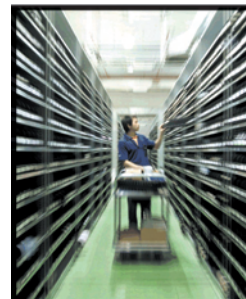
Mfrs. List No: AK2B + colour

Overall length = 81
Clamping limit = 9.5

Touch proof insulated clips for use with 4mm standard or shrouded plugs. With a flat clamping area for very fine wires. BG approved. Supplied in pairs of red and black.

209798

1 Pair Per Pack	Order Code	1+	10+	25+	50+	+
Red, Black	462-822	20.57	18.52	17.49	15.89	--



In stock and ready to despatch,
300,000 products in our Asia, US
and Europe warehouses.

300,000 products at your fingertips

