

Tooling



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

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

209666

	Order Code	1+	5+	10+
Open crimp tool	146-291	18,138.00	17,196.00	16,556.00
Insertion/Extraction tool	146-292	373.00	320.00	290.00
Barrel crimp tool	105-837	27,387.00	--	--
Locator plate	105-838	7,532.00	7,020.00	6,296.00
Crimp positioner	561-447	8,334.00	--	--

Mixed Signal 'D' Connectors

Mixed Power DW Series



- 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

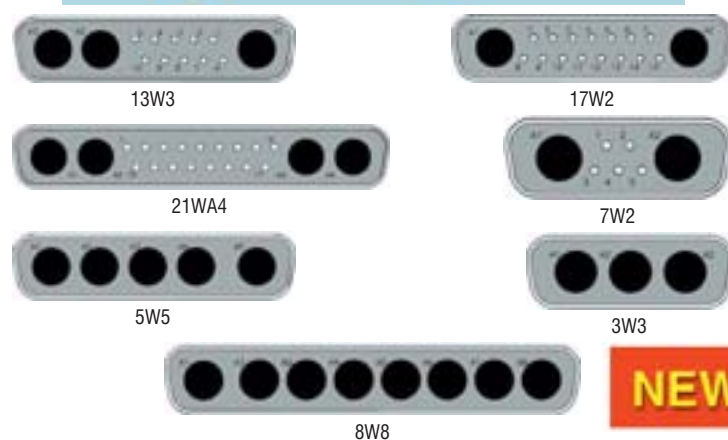
Shell	Tin plate	Dielectric voltage	1 KV rms
Insulation	Thermoplastic, UL94V-0	Contact resistance	≤7.3Ω
Contacts	Copper alloy, Tin and Gold over Nickel	Mating cycles	500min
Current rating	Signal contacts 7.5 power contacts 20A/40A		

210055

Pack Quantity=1		Price Each				
Mfrs.List No.	Order Code	1+	10+	50+	100+	+
Mixed Power D Plug, Solder						
3	308-9976▲‡	82.00	75.00	69.00	61.00	--
3	109-7930●	82.00	75.00	69.00	61.00	--
7	308-9988▲‡	298.00	272.00	249.00	222.00	--
7	109-7931●	298.00	272.00	249.00	222.00	--
13	308-9990▲‡	276.00	251.00	230.00	206.00	--
13	109-7932●	276.00	251.00	230.00	206.00	--
17	309-0000▲‡	352.00	319.00	293.00	262.00	--
17	109-7934●	352.00	319.00	293.00	262.00	--
8	309-0012▲‡	136.00	124.00	113.00	102.00	--
8	109-7935●	136.00	124.00	113.00	102.00	--
21	309-0024▲‡	405.00	368.00	337.00	302.00	--
21	109-7936●	405.00	368.00	337.00	302.00	--
Mixed Power D Socket, Solder						
3	309-0048▲‡	91.00	82.00	75.00	68.00	--
3	109-7937●	91.00	82.00	75.00	68.00	--
7	309-0050▲‡	327.00	298.00	273.00	243.00	--
7	109-7938●	327.00	298.00	273.00	243.00	--
13	309-0061▲‡	251.00	228.00	208.00	199.00	--
13	109-7939●	251.00	228.00	208.00	187.00	--
17	309-0073▲‡	401.00	365.00	334.00	300.00	--
17	109-7940●	401.00	365.00	334.00	300.00	--
8	309-0085▲‡	138.00	126.00	115.00	103.00	--
8	109-7941●	138.00	126.00	115.00	103.00	--
21	309-0097▲‡	463.00	420.00	386.00	345.00	--
21	109-7942●	463.00	420.00	386.00	345.00	--
R/A PCB Mixed Power D Plug						
21	309-0140	858.00	779.00	715.00	680.00	--
R/A PCB Mixed Power D Socket						
7	309-0152	646.00	587.00	538.00	482.00	--
13	309-0164	788.00	716.00	656.00	588.00	--
17	309-0176	810.00	736.00	675.00	643.00	--
Power Contacts						
Pin12AWG	309-0190▲‡	191.00	174.00	159.00	143.00	--
Pin12AWG	109-7943●	191.00	174.00	159.00	143.00	--
Socket12AWG	309-0206▲‡	239.00	216.00	199.00	178.00	--
Socket12AWG	109-7944●	239.00	216.00	199.00	178.00	--
Pin8AWG	309-0218▲‡	189.00	174.00	159.00	143.00	--

Pack Quantity=1		Price Each				
Mfrs.List No.	Order Code	1+	10+	50+	100+	+
Power Contacts						
Pin8AWG	109-7946●	189.00	174.00	159.00	143.00	--
Socket8AWG	309-0220▲‡	172.00	154.00	146.00	127.00	--
Socket8AWG	109-7947●	172.00	154.00	146.00	127.00	--
Coax Contacts						
RG178B/U male	309-0231	833.00	756.00	694.00	621.00	--
RG178B/U female	309-0243	331.00	302.00	276.00	247.00	--

Mixed Signal D-Sub



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

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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	261.00	230.00	208.00
7W2	09 69 211 5072	120-7582●	305.00	265.00	239.00
13W3	09 69 311 5133.	470-1501	284.00	251.00	226.00
13W3	09 69 311 5133	120-7584●	319.00	282.00	249.00
17W2	09 69 311 5172.	470-1525	341.00	300.00	271.00
17W2	09 69 311 5172	120-7586●	399.00	352.00	312.00
21WA4	09 69 411 5214.	470-1549	401.00	353.00	319.00
21WA4	09 69 411 5214	120-7588●	469.00	415.00	365.00
Sockets					
7W2	09 69 201 5072.	470-1495	281.00	247.00	223.00
7W2	09 69 201 5072	120-7583●	329.00	289.00	255.00
13W3	09 69 301 5133.	470-1513	311.00	274.00	248.00
13W3	09 69 301 5133	120-7585●	362.00	322.00	285.00
17W2	09 69 301 5172.	470-1537	421.00	371.00	336.00
17W2	09 69 301 5172	120-7587●	495.00	435.00	385.00
21WA4	09 69 401 5214.	470-1550	484.00	426.00	385.00
21WA4	09 69 401 5214	120-7589●	540.00	475.00	422.00
7-21 Way - 90° PCB mounted					
Plugs, with 40A High Current Contacts					
7W2	09 69 200 9049.	470-1409	527.00	464.00	419.00
7W2	09692009049	120-0465●	527.00	464.00	419.00
13W3	09 69 300 9018.	470-1422	684.00	602.00	544.00
13W3	09693009018	120-0467●	652.00	574.00	518.00