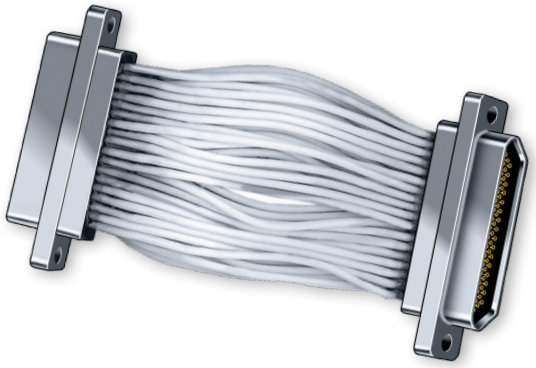
Micro-D MWDM
Back-To-Back Metal Shell
Unshielded Cable Assembly



Save Time and Money With Back-To-Back Cables– these Micro-D connectors feature crimp wire terminations and epoxy encapsulation. The installed cost is lower than terminating solder cup connectors.

100% Certified– All back-to-back assemblies are 100% checked for continuity, resistance, voltage and insulation resistance.

Hardware Note– If jackposts are required on one end and jackscrews on the other, use hardware designator "B" (no Hardware installed), and order hardware kits separately.

How To Order Back-to-Back Cable Assembly

Sample Part Number	MWDM	2	L-	25	GS-	4	K	7-	18	B

Series	**MWDM** Glenair Micro-D
Shell Material and Finish	Aluminum Shell **1** - Cadmium **2** - Nickel **4** - Black Anodize **5** - Gold **6** - Chem Film Stainless Steel Shell **3** - Passivated
Insulator Material	**L** - LCP or PPS LCP - 30% Glass-Filled Liquid Crystal Polymer PPS - 40% Glass Filled Polyphenylene Sulfide
Contact Layout	**9**, **15**, **21**, **25**, **31**, **37**, **51**, **51-2**, **67**, **69**, **75**, **100**, **130**
Connector Type	**GP** – Pin (Plug) Connector Both Ends **GS** – Socket (Receptacle) Connector Both Ends **CS** – Pin Connector to Socket Connector
Wire Gage (AWG)	**4** - #24 **6** - #26 **8** - #28 **0** - #30
Wire Type	**K** – M22759/11 600 VRMS Fluoropolymer (TFE) **J** – M22759/33 600 VRMS Modified Cross-Linked Tefzel® (ETFE) **E** – NEMA HP3-EB 600 VRMS Type E M16878/4 (TFE)
Wire Color	**1** – White **2** – Yellow **5** – Color-Coded Stripes Per MIL-STD-681 (up to 51 colors) **7** – Ten Color Repeating
Wire Length Inches	**18** - Wire Length In Inches. "18" Specifies 18 Inches. (2" Min. for 2 row, 3" Min. for 3 row, 4" Min. for 4 row)
Hardware	**B**, **P**, **M**, **M1**, **S**, **S1**, **L**, **K**, **F**, **R**, **H**

Table I: Mounting Hardware

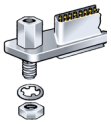
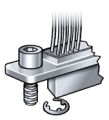
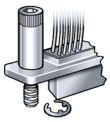
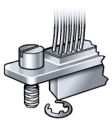
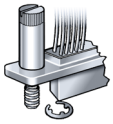
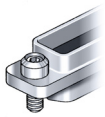
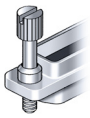
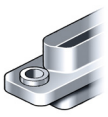
B	P	M	M1	S	S1	L	K	F	R	H
										
Thru-Hole	Jackpost	Hex Head Jackscrew	Hex Head Jackscrew, Extended	Slot Head Jackscrew	Slot Head Jackscrew, Extended	Hex Head Jackscrew Non-Removable	Slot Head Jackscrew Non-Removable Extended	Float Mount For Front Panel Mounting	Float Mount For Rear Panel Mounting	Threaded Insert

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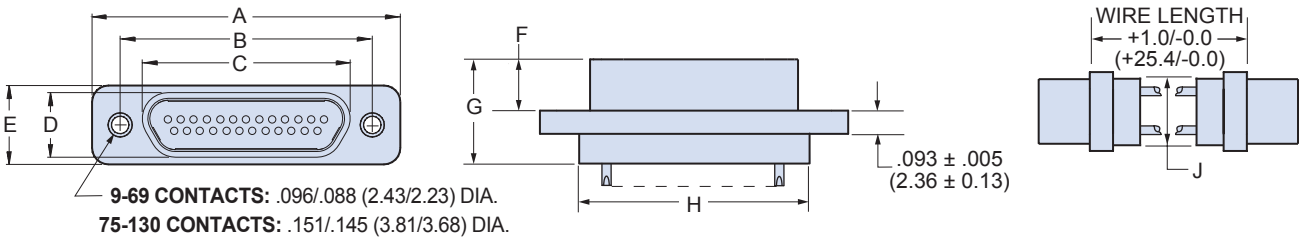
Table II: Dimensions



9-69 CONTACTS: .096/.088 (2.43/2.23) DIA.
75-130 CONTACTS: .151/.145 (3.81/3.68) DIA.

Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.		H Max.		J Max.	
	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.
9P	.785	19.94	.565	14.35	.333	8.46	.184	4.67	.308	7.82	.183	4.65	.416	10.57	.400	10.16	.270	6.86
9S	.785	19.94	.565	14.35	.400	10.16	.250	6.35	.308	7.82	.195	4.95	.429	10.90	.400	10.16	.270	6.86
15P	.935	23.75	.715	18.16	.483	12.27	.184	4.67	.308	7.82	.183	4.65	.416	10.57	.550	13.97	.270	6.86
15S	.935	23.75	.715	18.16	.551	14.00	.250	6.35	.308	7.82	.195	4.95	.429	10.90	.550	13.97	.270	6.86
21P	1.085	27.56	.865	21.97	.633	16.08	.184	4.67	.308	7.82	.183	4.65	.416	10.57	.700	17.78	.270	6.86
21S	1.085	27.56	.865	21.97	.701	17.81	.250	6.35	.308	7.82	.195	4.95	.429	10.90	.700	17.78	.270	6.86
25P	1.185	30.01	.965	24.51	.733	18.62	.184	4.67	.308	7.82	.183	4.65	.416	10.57	.800	20.32	.270	6.86
25S	1.185	30.01	.965	24.51	.801	20.35	.250	6.35	.308	7.82	.195	4.95	.429	10.90	.800	20.32	.270	6.86
31P	1.335	33.91	1.115	28.32	.883	22.43	.184	4.67	.308	7.82	.183	4.65	.416	10.57	.950	24.13	.270	6.86
31S	1.335	33.91	1.115	28.32	.951	24.16	.250	6.35	.308	7.82	.195	4.95	.429	10.90	.950	24.13	.270	6.86
37P	1.485	37.72	1.265	32.13	1.033	26.24	.184	4.67	.308	7.82	.183	4.65	.416	10.57	1.100	27.94	.270	6.86
37S	1.485	37.72	1.265	32.13	1.101	27.96	.250	6.35	.308	7.82	.195	4.95	.429	10.90	1.100	27.94	.270	6.86
51P	1.435	36.45	1.215	30.86	.983	24.97	.228	5.79	.351	8.92	.183	4.65	.416	10.57	1.050	26.67	.310	7.87
51S	1.435	36.45	1.215	30.86	1.051	26.70	.296	7.52	.351	8.92	.195	4.95	.429	10.90	1.050	26.67	.310	7.87
51-2P	1.835	46.61	1.615	41.02	1.384	35.15	.184	4.67	.310	7.87	.183	4.65	.416	10.57	1.450	36.83	.270	6.86
51-2S	1.835	46.61	1.615	41.02	1.450	36.83	.250	6.35	.310	7.87	.195	4.95	.429	10.90	1.450	36.83	.270	6.86
67P	2.235	56.77	2.015	51.18	1.784	45.31	.184	4.67	.310	7.87	.183	4.65	.416	10.57	1.850	46.99	.270	6.86
67S	2.235	56.77	2.015	51.18	1.850	46.99	.250	6.35	.310	7.87	.195	4.95	.429	10.90	1.850	46.99	.270	6.86
69P	1.735	44.07	1.515	38.48	1.284	32.61	.228	5.79	.351	8.92	.183	4.65	.416	10.57	1.350	34.29	.310	7.87
69S	1.735	44.07	1.515	38.48	1.350	34.29	.296	7.52	.351	8.92	.195	4.95	.429	10.90	1.350	34.29	.310	7.87
75P	2.080	52.8	1.705	43.3	1.384	35.2	.228	5.8	.351	8.9	.183	4.65	.416	10.6	1.440	36.6	.310	7.87
75S	2.080	52.8	1.705	43.3	1.450	36.8	.296	7.5	.351	8.9	.195	4.95	.429	10.9	1.440	36.6	.310	7.87
100P	2.170	55.12	1.800	45.72	1.383	35.13	.270	6.86	.394	10.01	.183	4.65	.416	10.57	1.442	36.63	.360	9.14
100S	2.170	55.12	1.800	45.72	1.451	36.86	.333	8.46	.394	10.01	.195	4.95	.429	10.90	1.442	36.63	.360	9.14
130P	2.520	64.00	2.160	54.86	1.735	44.07	.270	6.86	.394	10.01	.183	4.65	.416	10.57	1.780	45.21	.360	9.14
130S	2.520	64.00	2.160	54.86	1.795	45.60	.333	8.46	.394	10.01	.195	4.95	.429	10.90	1.780	45.21	.360	9.14

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC Sea level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resist.	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55° C. to +150° C.
Shock, Vibration	50 g., 20g.
Mating Force	(10 Ounces) X (# of Contacts)

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, passivated. See Ordering Info for Plating Options
Insulator	Liquid Crystal Polymer (LCP)/ Polyphenyl Sulfide(PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Beryllium Copper Gold over Nickel Plating
Socket Contact	Copper Alloy Gold Over Nickel Plating
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Resin Hysol EE4215

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