

PRODUCT SELECTION GUIDE

MWDM Solder Cup Connectors

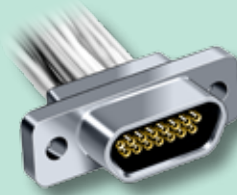
Always in stock, these connectors feature gold-plated solder cup contacts for termination to #24 through #30 AWG wire.



*Solder Cup
Page B-2*

MWDM Pre-Wired Connectors

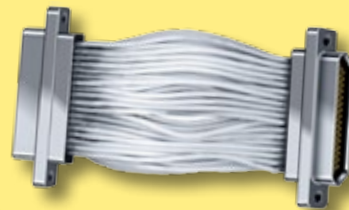
These connectors avoid the expense and workmanship issues with soldering wires. Crimp terminations assure consistent circuit resistance. Stocked in #26 AWG, available in #24 gage to #30 gage wire.



*Pre-Wired
Page B-4*

MWDM Back-To-Back Unshielded Cables

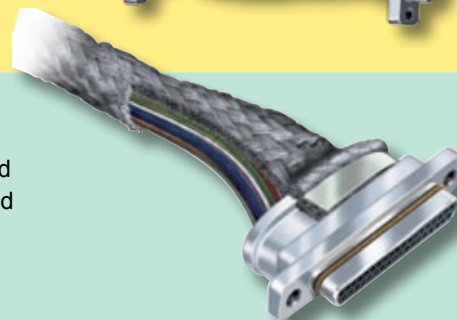
If a simple jumper cable is required, these cable assemblies simplify ordering. No special part numbers are necessary. Available in all sizes. Wiring is #1 to #1, etc. Back-to-backs are built to order in any length.



*Back-To-Back
Page B-6*

MWDM Shielded Cable Assemblies

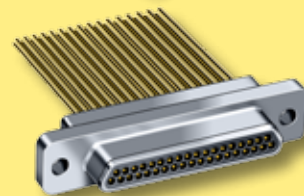
Featuring special Micro-D connectors with integral shield attachment platforms and ground springs, these shielded cable assemblies are terminated, tested and ready for immediate use.



*Shielded
Cables
Page B-8*

MWDM Uninsulated Wire Pigtails

Gold plated or solder dipped single strand uninsulated wire can be used for a variety of termination techniques, including wire bonding, flexible circuits and rigid boards.



*Uninsulated
Wire
Page B-12*

GMDE Environmentally Sealed Panel Mount

GMDE connectors are special Micro-D connectors with O-rings for sealing to panels or bulkheads.



*Environ-
mental
Page B-14*



Micro-D Metal Shell MWDM Solder Cup Connectors

B



Micro-D Solder Cup Termination—These connectors feature gold-plated TwistPin contacts for best performance. Use with #26 or smaller stranded or solid wire. Specify nickel-plated shells or cadmium plated shells for best availability.

Now Available With #24 Gage Contacts—AWG 24 wire offers increased mechanical strength and lower voltage drop. Glenair Micro-D solder cup connectors are now compatible with 24 gage stranded or solid wire. Specify “N” for 24 gage pin contacts, or “T” for 24 gage socket contacts.

HOW TO ORDER METAL SHELL SOLDER CUP MICRO-D CONNECTORS

Series	Shell Material and Finish	Insulator Material	Contact Layout	Contact Type	Termination Type	Hardware					
MWDM	Aluminum Shell	L – LCP 30% Glass-Filled Liquid Crystal Polymer	9	Size #26 Solder Cup Contacts (Standard)	S – Solder Cup	B					
			15			P					
			21			M					
			25			M1					
			31			S					
			37			S1					
	Stainless Steel Shell	3 – Passivated	L – LCP 30% Glass-Filled Liquid Crystal Polymer	51	Size #24 Solder Cup Contacts	S – Solder Cup	L				
				51-2			K				
				67			F				
				69			R				
				100			H				
				See Micro-D Mounting Hardware Options Below							
				Sample Part Number							
MWDM	2	L –	37	S	S	B					

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

Micro-D Metal Shell MWDM Solder Cup Connectors

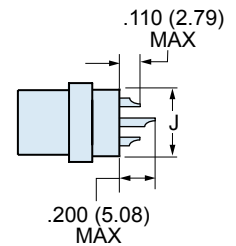
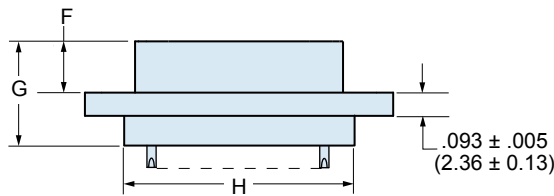
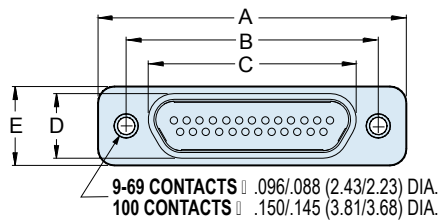


PERFORMANCE SPECIFICATIONS

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)
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



DIMENSIONS

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	36.83	.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	36.83	.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
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



Micro-D Metal Shell MWDM Pre-Wired with Insulated Wire

B



Micro-D Pre-Wired Pigtails—These connectors feature gold-plated TwistPin contacts and mil spec crimp termination. Specify nickel-plated shells or cadmium plated shells for best availability. 100% tested and backpotted, ready for use.

Choose the Wire Type and Size To Fit Your Application— If on-hand availability is most important, choose #26 AWG Type K mil spec Teflon® wire. Select M22759/33 Type J for space applications.

HOW TO ORDER METAL SHELL PRE-WIRED MICRO-D CONNECTORS

Series	Shell Material and Finish	Insulator Material	Contact Layout	Contact Type	Wire Gage (AWG)	Wire Type	Wire Color	Wire Length Inches	Hardware
MWDM	Aluminum Shell	L – LCP 30% Glass-Filled Liquid Crystal Polymer	9	P – Pin	4 – #24	K – M22759/11 600 Vrms Teflon® (TFE) J – M22759/33 600 Vrms Modified Cross-Linked Tefzel® (ETFE) E – NEMA HP3-EB 600 Vrms Type E M16878/4 (TFE) (replaced by M22759/11 for mil spec applications)	1 – White	18 Wire Length In Inches. "18" Specifies 18 Inches.	B P M M1 S S1 L K F R H
			15	S – Socket	6 – #26		2 – Yellow		
			21		8 – #28		5 – Color-Coded Stripes Per MIL-STD-681		
			25		0 – #30		(Striped wire not available on 67, 69 or 100 pin connectors or for #28, #30 AWG)		
			31				7 – Ten Color Repeating		
			37						
	51								
	51-2								
	67								
	69								
	100								
		Stainless Steel Shell							
		3 – Passivated							
Sample Part Number									
MWDM	2	L –	25	S –	4	K	7 –	18	B

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

Micro-D Metal Shell MWDM Pre-Wired with Insulated Wire

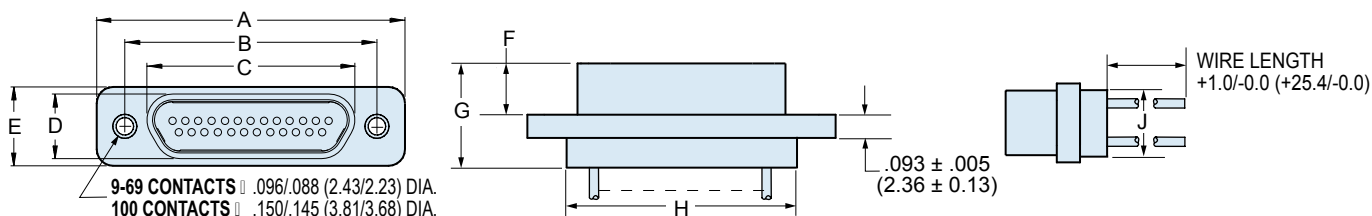


PERFORMANCE SPECIFICATIONS

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)
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



DIMENSIONS

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
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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
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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
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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
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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
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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
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



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

B



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 UNSHIELDED CABLES

Series	Shell Material and Finish	Insulator Material	Contact Layout	Connect or Type	Wire Gage (AWG)	Wire Type	Wire Color	Total Length Inches	Hardware
MWDM	Aluminum Shell	L – LCP 30% Glass-Filled Liquid Crystal Polymer	9 15 21 25 31 37 51 51-2 67 69 100	GP – Pin (Plug) Connector Both Ends GS – Socket (Receptacle) Connector Both Ends CS – Pin Connector to Socket Connector	4 – #24 6 – #26 8 – #28 0 – #30	K – M22759/11 600 Vrms Teflon (TFE) J – M22759/33 600 Vrms Modified Cross-Linked Tefzel® (ETFE) E – NEMA HP3-EB 600 Vrms Type E M16878/4 (TFE) (replaced by M22759/11 for mil spec applications)	1 – White 2 – Yellow 7 – Ten Color Repeating 5 – Color-Coded Stripes Per MIL-STD-681 (Striped wire not available on 67, 69 or 100 pin connectors or for #28, #30 AWG) 7 – Ten Color Repeating	18 Total Length In Inches. “18” Specifies 18 Inches (2” Min. for 2 row, 3” Min. for 3 row, 4” Min. for 4 row)	B P M M1 S S1 L K
	Stainless Steel Shell								
Sample Part Number									
MWDM	1	L –	25	GP –	6	K	7 –	18	B

MICRO-D MOUNTING HARDWARE

B	P	M	M1	S	S1	L	K
Thru-Hole Order Hardware Separately	Jackpost Removable Includes Nut and Washer	Jackscrew Hex Head Removable E-ring	Jackscrew Hex Head Removable E-ring Extended	Jackscrew Slot Head Removable E-ring	Jackscrew Slot Head Removable E-ring Extended	Jackscrew Hex Head Non- Removable	Jackscrew Slot Head Non- Removable Extended

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



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
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Shock, Vibration	50 g., 20g.
Mating Force	(10 Ounces) X (# of Contacts)

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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



DIMENSIONS

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
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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
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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	36.83	.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	36.83	.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
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



MWDM Micro-D Shielded Cable Assemblies

B



Single-Ended or Double-Ended—These easy-to-order cable assemblies eliminate the need for expensive assembly labor. 100% tested and ready for use.

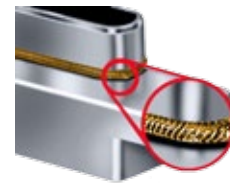
Now With Twisted Pairs—No need to create a procurement specification for Micro-D cables with twisted pairs. Glenair 177-740 cables are furnished with a full complement of white/blue twisted pair wires.

Integral Shield Termination—The connector shell has a platform to accept Band-It shield termination bands. The cable shield braid is attached directly to the connector.

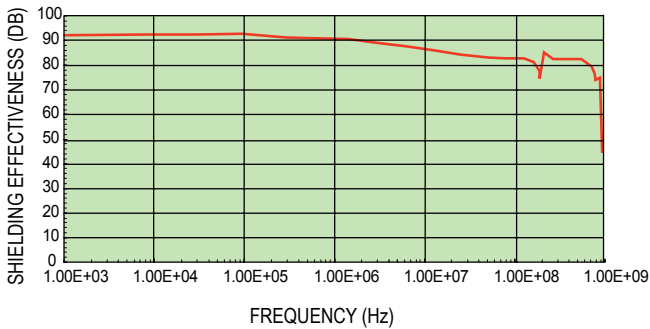
Save Labor, Reduce Weight and Improve EMI Shielding with Glenair's Micro-D Shielded Cable Assemblies

Aerospace electronics systems require higher and higher levels of protection from radiated emissions. Glenair's fully shielded Micro-D cable assemblies meet this need. The cable shield is attached directly onto the one-piece connector shell and secured with a stainless steel **BAND-IT**® clamp. These pre-wired, 100% tested assemblies meet the requirements of MIL-DTL-83513. An optional ground spring on the pin connector assures low shell-to-shell resistance. Available with a variety of wire types and shields, Micro-D shielded assemblies can be ordered in any length, either single-ended or "back-to-back".

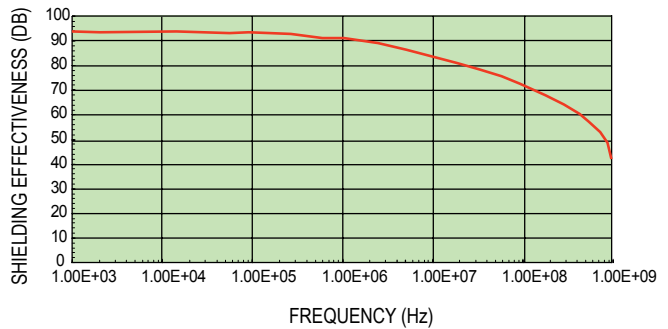
Ground Spring and EMI Shielding Effectiveness – A gold-plated stainless steel ground spring on the pin connector mating face offers substantial improvement in EMI protection. The graphs compare identical connectors tested with and without ground springs.



EMI Performance with Ground Spring



EMI Performance without Ground Spring



MWDM Micro-D Shielded Cable Assemblies 177-710 (Untwisted) and 177-740 (Twisted Pairs)



HOW TO ORDER SHIELDED MICRO-D CABLE ASSEMBLIES

177-710 - 2 - 25 P 4 K 1 - 24 M A G

Basic Number

- 177-710 – Untwisted Wire
- 177-740 – Twisted Pair Wire

Shell Plating

- 1 – Cadmium w/Yellow Chromate*
- 2 – Electroless Nickel
- 5 – Gold

Number of Contacts

- 9, 15, 21, 25, 31, 37, 51, 100

Contact Type

- P – Pin (Single End Plug)
- S – Socket (Single End Receptacle)
- GP – Double End Cable, Pin Connectors Both Ends
- GS – Double End Cable, Socket connectors Both Ends
- CS – Double End Cable, Pin and Socket

Wire Gage (AWG)

- 4 – #24 Gage
- 6 – #26 Gage
- 8 – #28 Gage
- 0 – #30 Gage

Wire Type

- K – Teflon® Wire Per MIL-W-22759/11 (Not available in #30 gage)
- J – Cross-Linked Tefzel® Wire Per MIL-W-22759/33

Wire Color

- 1 – White (177-710 only) Or White/Blue Pairs (177-740 Only)
- 5 – Color-Coded Per MIL-STD-681 (177-710 only)(#24 and #26 gage only)
White/Blue Twisted Pairs With Numbered Wire Markers (177-740 only)
- 7 – Ten Color Repeating (177-710 only)

Overall Length in Inches

- 6 Inch (152 mm.) Minimum

Mounting Hardware

- | | |
|---|---|
| B – No Mounting Hardware Installed | L – Male Jackscrew, Allen Head, Non-Removable |
| M – Male Jackscrew, Allen Head, Low Profile | F – Float Mount, for Front Panel Mounting |
| S – Male Jackscrew, Slot Head, Low Profile | R – Float Mount, for Rear Panel Mounting |
| P – Female Jackpost | |

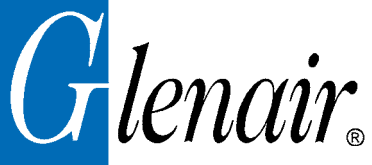
Shield and Jacket Option

- N – No Shield, No Jacket
- A – Braided Shield Installed
- C – Braided Shield Installed, With E-CTFE Halar “Expando” Jacket (+150° C.)
- D – No Shield, With E-CTFE Halar “Expando” Jacket Installed (+150° C.)
- S – 100% Braided AmberStrand® Shield Installed
- T – 100% Braided AmberStrand® Shield Installed with E-CTFE Halar “Expando” Jacket (+150° C.)
- V – 75% Braided AmberStrand® Shield Installed
- Z – 75% Braided AmberStrand® Shield Installed with E-CTFE Halar “Expando” Jacket (+150° C.)

Ground Spring Option*

- N – No Ground Spring
- G – Ground Spring Installed (Pin Connectors Only)

*Ground Spring cannot be used with Cadmium Plating



MWDM Micro-D Shielded Cable Assemblies

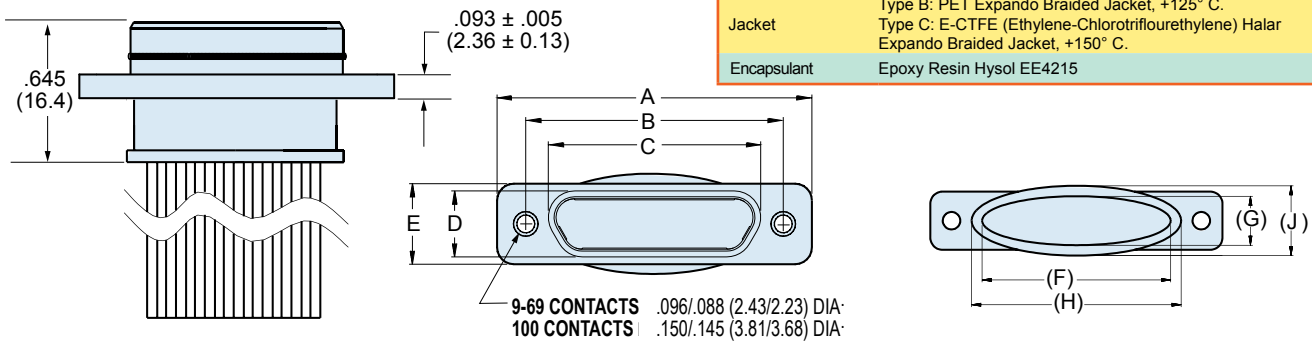
177-710 (Untwisted) and 177-740 (Twisted Pairs)

PERFORMANCE SPECIFICATIONS

Current Rating	3 AMP
Dielectric Withstanding Voltage	600 VAC Sea Level
Voltage	150 VAC 70,000 Feet
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 μ Maximum
Operating Temperature	-55° C. to +150° C.
Shock	50 g.
Vibration	20 g.
Outgassing	Meets NASA Outgassing Requirements
Mating Force	(10 Ounces) X (# of Contacts)
EMI Shielding Effectiveness	50 dB Attenuation, 100 MHz to 1000 MHz
For additional performance requirements, please refer to MIL-DTL-83513	

MATERIALS AND FINISHES

Connector Shell	Plating Code 1: Cadmium With Yellow Chromate Plating Code 2: Electroless Nickel Plating Code 5: Gold
Insulator	Liquid Crystal Polymer (LCP)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy With 50 Microinches Gold over Nickel Plating
Socket Contact	Copper Alloy With 50 Microinches Gold Over Nickel Plating
Hardware	300 Series Stainless Steel
Wire	Type K: per MIL-W-22759/11. Silver-Plated Copper Conductor, Extruded TFE Teflon® Insulation Type J: per MIL-W-22759/33. Silver-Plated Copper Conductor, Extruded Crosslinked Tefzel® Insulation
Shield Braid	#36 AWG Nickel-Coated Copper per ASTM B355 Class 4 OFHC 100% AmberStrand® EMI/RFI Conductive Composite Thermoplastic Braided Shielding 75% AmberStrand® Conductive Composite Thermoplastic EMI/RFI Shielding Blended with 25% NiCu EMI/RFI Braided Shielding ArmorLite™ Lightweight Stainless Steel EMI/RFI Shielding
Jacket	Type B: PET Expando Braided Jacket, +125° C. Type C: E-CTFE (Ethylene-Chlorotrifluorethylene) Halar Expando Braided Jacket, +150° C.
Encapsulant	Epoxy Resin Hysol EE4215



DIMENSIONS

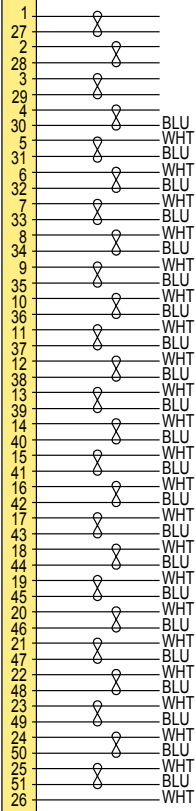
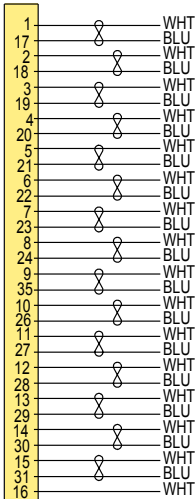
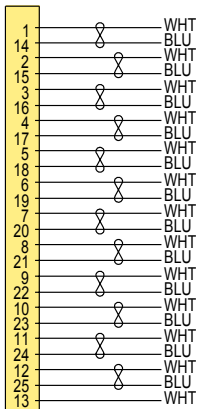
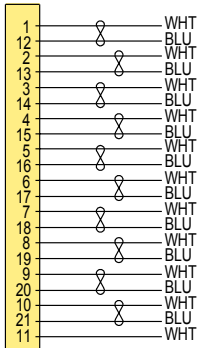
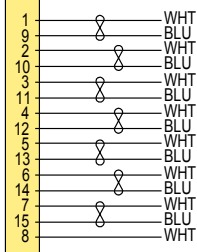
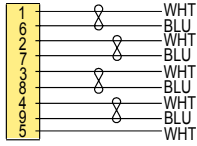
Layout	A Max.		B		C Max.		D Max.		E Max.		F		G		H		J		K	
	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In.	mm.
9P	.785	19.94	.565	14.35	.333	8.46	.184	4.67	.310	7.87	.183	4.65	.340	8.64	.214	5.44	.450	11.43	.324	8.23
9S	.785	19.94	.565	14.35	.400	10.16	.250	6.35	.310	7.87	.195	4.95	.340	8.64	.214	5.44	.450	11.43	.324	8.23
15P	.935	23.7	.715	18.16	.483	12.27	.184	4.67	.310	7.87	.183	4.65	.490	12.45	.214	5.44	.600	15.24	.324	8.23
15S	.935	23.7	.715	18.16	.551	14.00	.250	6.35	.310	7.87	.195	4.95	.490	12.45	.214	5.44	.600	15.24	.324	8.23
21P	1.085	27.56	.865	21.97	.633	16.08	.184	4.67	.310	7.87	.183	4.65	.640	16.26	.214	5.44	.750	19.05	.324	8.23
21S	1.085	27.56	.865	21.97	.701	17.81	.250	6.35	.310	7.87	.195	4.95	.640	16.26	.214	5.44	.750	19.05	.324	8.23
25P	1.185	30.10	.965	24.51	.733	18.62	.184	4.67	.310	7.87	.183	4.65	.740	18.80	.214	5.44	.850	21.59	.324	8.23
25S	1.185	30.10	.965	24.51	.801	20.35	.250	6.35	.310	7.87	.195	4.95	.740	18.80	.214	5.44	.850	21.59	.324	8.23
31P	1.335	33.91	1.115	28.32	.883	22.43	.184	4.67	.310	7.87	.183	4.65	.890	22.61	.214	5.44	1.000	25.40	.324	8.23
31S	1.335	33.91	1.115	28.32	.951	24.16	.250	6.35	.310	7.87	.195	4.95	.890	22.61	.214	5.44	1.000	25.40	.324	8.23
37P	1.485	37.72	1.265	32.13	1.033	26.24	.184	4.67	.310	7.87	.183	4.65	1.040	26.42	.214	5.44	1.150	29.21	.324	8.23
37S	1.485	37.72	1.265	32.13	1.101	27.97	.250	6.35	.310	7.87	.195	4.95	1.040	26.42	.214	5.44	1.150	29.21	.324	8.23
51P	1.435	36.45	1.215	30.86	.983	24.97	.228	5.79	.351	8.92	.183	4.65	.990	25.15	.257	6.53	1.100	27.94	.367	9.32
51S	1.435	36.45	1.215	30.86	1.051	26.70	.296	7.52	.351	8.92	.195	4.95	.990	25.15	.257	6.53	1.100	27.94	.367	9.32
51-2P	1.835	46.61	1.615	41.02	1.384	35.15	.184	4.67	.310	7.87	.183	4.65	1.390	35.31	.214	5.44	1.460	37.08	.324	8.23
51-2S	1.835	46.61	1.615	41.02	1.450	36.83	.250	6.35	.310	7.87	.195	4.95	1.390	35.31	.214	5.44	1.460	37.08	.324	8.23
67P	2.235	56.77	2.015	51.18	1.784	45.31	.184	4.67	.310	7.87	.183	4.65	1.790	45.47	.214	5.44	1.900	48.26	.324	8.23
67S	2.235	56.77	2.015	51.18	1.850	46.99	.250	6.35	.310	7.87	.195	4.95	1.790	45.47	.214	5.44	1.900	48.26	.324	8.23
69P	1.735	44.07	1.515	38.48	1.284	32.61	.228	5.79	.351	8.92	.183	4.65	1.290	32.77	.257	6.53	1.400	35.56	.367	9.32
69S	1.735	44.07	1.515	38.48	1.350	34.29	.296	7.52	.351	8.92	.195	4.95	1.290	32.77	.257	6.53	1.400	35.56	.367	9.32
100P	2.160	54.86	1.800	45.72	1.383	35.13	.270	6.86	.394	10.01	.183	4.65	1.385	35.18	.307	7.80	1.495	38.00	.417	10.59
100S	2.160	54.86	1.800	45.72	1.451	36.86	.333	8.46	.394	10.01	.195	4.95	1.385	35.18	.307	7.80	1.495	38.00	.417	10.59

MWDM Micro-D Shielded Cable Assemblies 177-710 (Untwisted) and 177-740 (Twisted Pairs)

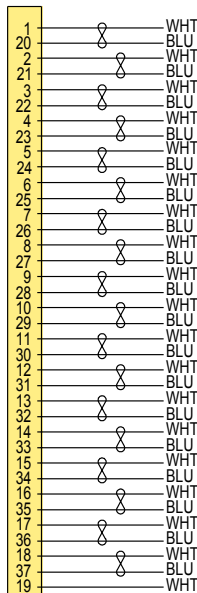
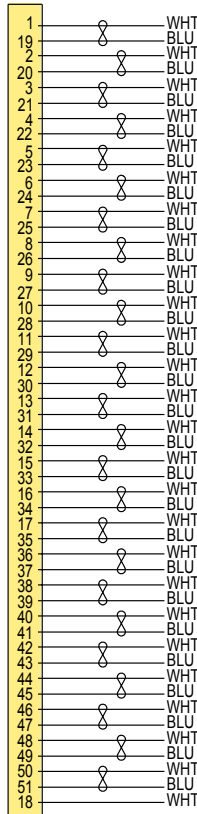


177-740 TWISTED PAIR WIRING DIAGRAM

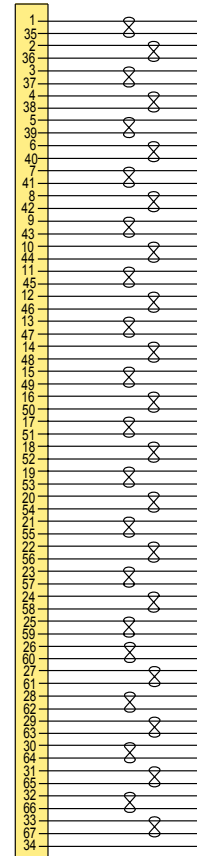
B



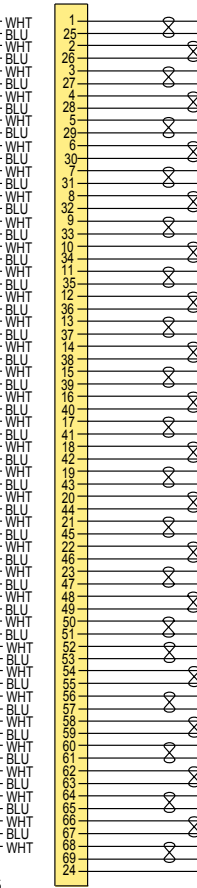
51 Contacts
2 Row special



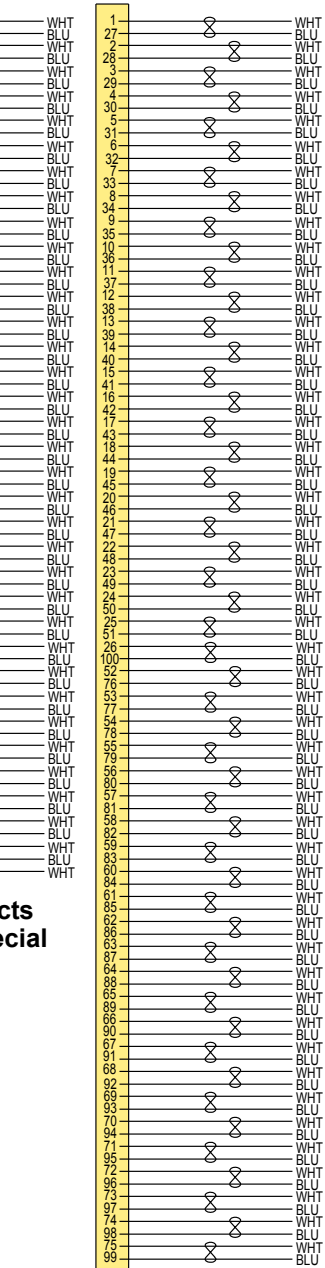
37 Contacts



67 Contacts
2 Row Special



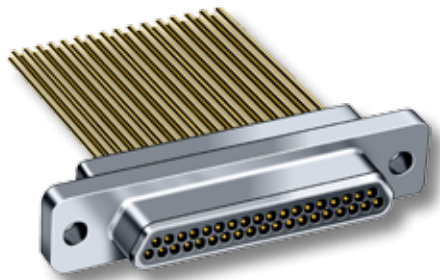
69 Contacts
3 Row Special



100 Contacts



Micro-D Metal Shell MWDM Uninsulated Wire Pigtails



Micro-D Uninsulated Pigtails—These connectors feature gold-plated TwistPin contacts and mil spec crimp termination to gold-plated single strand copper wire. Suitable for soldering or splicing applications, the wire leads can be ordered either gold-plated or solder-dipped.

New One-Piece Socket Contact—An “integral tail” socket contact is now standard on all socket connectors ordered with 24 AWG or 25 AWG, up to one inch of wire. This phos bronze contact eliminates the crimp joint and offers greater rigidity.

HOW TO ORDER METAL SHELL PIGTAILS, UNINSULATED WIRE MICRO-D CONNECTORS

Series	Shell Material and Finish	Insulator Material	Contact Layout	Contact Type	Wire Gage (AWG)	Wire Type	Wire Finish	Wire Length Inches	Hardware									
MWDM	Aluminum Shell	L – LCP 30% Glass-Filled Liquid Crystal Polymer	9 15 21 25 31 37 51 51-2 67 69 100	P – Pin S – Socket	4 – #24 (.020") 5 – #25 (.018") 6 – #26 (.016")	C – Single Strand Copper	3 – Solder-Dipped 4 – Gold	.125 .250 .375 .500 .750 1.000 2.000	B P M M1 S S1 L K F R H									
	Stainless Steel Shell																	
	3 – Passivated																	
	<i>Sample Part Number</i>																	
	MWDM									2	L –	37	P –	5	C	4 –	.250	M

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

Micro-D Metal Shell MWDM Uninsulated Wire Pigtails

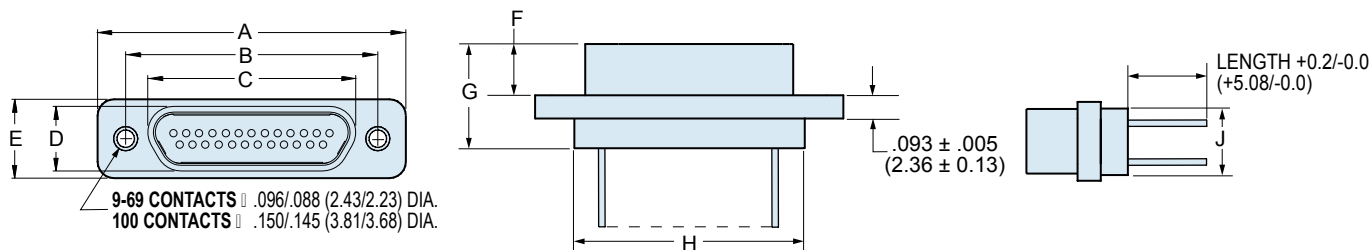


PERFORMANCE SPECIFICATIONS

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)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, _Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold Over Nickel Plating
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Resin Hysol EE4215



DIMENSIONS

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	.308	7.82	.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	.308	7.82	.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	36.83	.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	36.83	.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
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



Micro-D Metal Shell GMDE Environmentally Sealed Panel Mount With O-Ring

B



RMI

RMI Style
Blind tapped mounting holes with stainless steel inserts accommodate either #4-40 or M3 mounting screws. Connectors are supplied with jackposts installed. Socket connectors feature integral jackposts.



CMI

CMI Style
Space-saving design uses rear panel mount jackposts to attach connectors to the panel.

Choose the Style That Meets Your Needs— RMI version features blind tapped mounting holes, allowing secure installation on panels. **CMI** version saves space by using rear panel jackposts to attach the connector.

Mates to Standard M83513 Connectors— GMDE connectors meet the requirements of MIL-DTL-83513 and feature TwistPin contacts for best performance.

Meets MIL-STD-810 Immersion— The nitrile O-ring and a special epoxy wire sealing process allow GMDE connectors to meet immersion requirements.

Protect Your Equipment with Ruggedized Micro-D Connectors

Tactical communications boxes must be sealed to prevent water ingress. Standard M83513 type Micro connectors can be difficult to seal to a bulkhead. The flange is too narrow for a gasket, and sealing with RTV can be time-consuming and messy. The Glenair GMDE connector with O-rings provide a better way to seal the connector.

HOW TO ORDER GMDE CONNECTORS

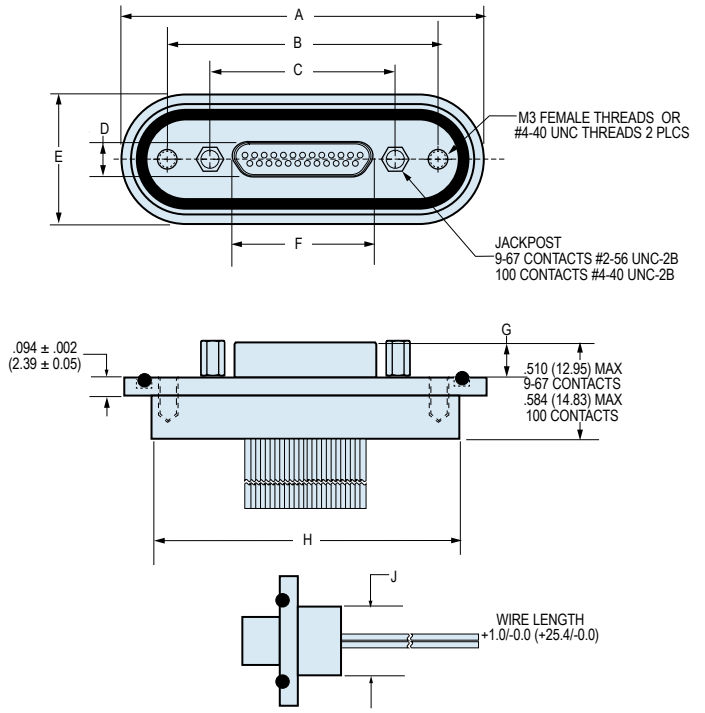
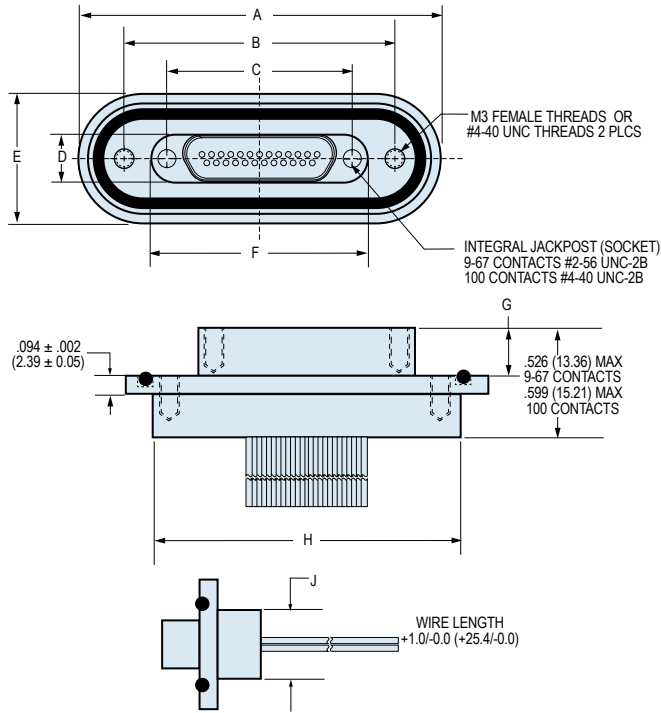
Series	Shell Material and Finish	Layout	Contact Type	Flange Style	Wire Gage (AWG)	Wire Type	Wire Color	Wire Length Inches	Hardware
GMDE	Aluminum Shell	9	P – Pin	RMI	4 – #24	K – M22759/11 600 Vrms Teflon® (TFE)	1 – White	18 Wire Length In Inches. "18" Specifies 18 Inches.	RMI Style Only
	1 – Cadmium	15	S – Socket	CMI	6 – #26		2 – Yellow		SM
	2 – Nickel	21			8 – #28		5 – Color-Coded Stripes Per MIL-STD-681		Furnished with Jackposts and M3 Mounting Holes
	4 – Black Anodize	25			0 – #30	J – M22759/33 600 Vrms Modified Cross-Linked Tefzel® (ETFE)	(Striped wire not available on 67or 100 pin connectors or for #28, #30 AWG)	SU Furnished with Jackposts and #4-40 Mounting Holes	
	5 – Gold	31							
	6 – Chem Film	37				E – NEMA HP3-EB 600 Vrms Type E M16878/4 (TFE)	7 – Ten Color Repeating	CMI Style Only Jackposts for Rear Panel Mount	
	Stainless Steel Shell	51							
	3 – Passivated	51-2							
			67						T – .094 (2.4)
			100						V – .062 (1.6)
								W – .047 (1.2)	
								X – .031 (0.8)	
								Y – .023 (0.65)	
Sample Part Number									
GMDE	2	25	S –	RMI	4	K	7 –	18	SM

Micro-D Metal Shell GMDE Environmentally Sealed Panel Mount With O-Ring



Micro-D
Harness

B



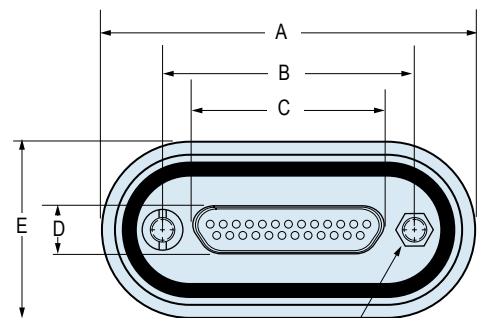
GMDE RMI DIMENSIONS

Layout	A Max.		B		C		D Max.		E Max.		F Max.		G		H Max.		J Max.	
	In.	mm.	In. ± .003	mm. ± 0.08	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.
9P	1.488	37.79	1.011	25.69	.565	14.35	.184	4.67	.675	17.13	.333	8.46	.183	4.65	1.193	30.29	.358	9.10
9S	1.488	37.79	1.011	25.69	.565	14.35	.250	6.35	.675	17.13	.728	18.48	.195	4.95	1.193	30.29	.358	9.10
15P	1.638	41.60	1.161	29.50	.715	18.16	.184	4.67	.675	17.13	.483	12.27	.183	4.65	1.343	34.10	.358	9.10
15S	1.638	41.60	1.161	29.50	.715	18.16	.250	6.35	.675	17.13	.878	22.29	.195	4.95	1.343	34.10	.358	9.10
21P	1.788	45.41	1.311	33.31	.865	21.97	.184	4.67	.675	17.13	.633	16.08	.183	4.65	1.532	38.91	.358	9.10
21S	1.788	45.41	1.311	33.31	.865	21.97	.250	6.35	.675	17.13	1.028	26.10	.195	4.95	1.532	38.91	.358	9.10
25P	1.888	47.95	1.411	35.85	.965	24.51	.184	4.67	.675	17.13	.733	18.62	.183	4.65	1.593	40.45	.358	9.10
25S	1.888	47.95	1.411	35.85	.965	24.51	.250	6.35	.675	17.13	1.128	28.64	.195	4.95	1.593	40.45	.358	9.10
31P	2.038	51.76	1.561	39.66	1.115	28.32	.184	4.67	.675	17.13	.883	22.43	.183	4.65	1.743	44.26	.358	9.10
31S	2.038	51.76	1.561	39.66	1.115	28.32	.250	6.35	.675	17.13	1.278	32.45	.195	4.95	1.743	44.26	.358	9.10
37P	2.188	55.57	1.711	43.47	1.265	32.13	.184	4.67	.675	17.13	1.033	26.24	.183	4.65	1.893	48.07	.358	9.10
37S	2.188	55.57	1.711	43.47	1.265	32.13	.250	6.35	.675	17.13	1.428	36.26	.195	4.95	1.893	48.07	.358	9.10
51P	2.138	54.30	1.661	42.40	1.215	30.86	.224	5.69	.714	18.13	.983	24.97	.183	4.65	1.843	46.80	.358	9.10
51S	2.138	54.30	1.661	42.40	1.215	30.86	.293	7.44	.714	18.13	1.378	34.99	.195	4.95	1.843	46.80	.358	9.10
51-2P	2.538	64.46	2.061	52.36	1.615	41.02	.184	4.67	.675	17.13	1.384	35.15	.183	4.65	2.243	56.96	.358	9.10
51-2S	2.538	64.46	2.061	52.36	1.615	41.02	.250	6.35	.675	17.13	1.778	45.15	.195	4.95	2.243	56.96	.358	9.10
67P	2.938	74.62	2.461	62.52	2.015	51.18	.184	5.69	.675	17.13	1.284	32.61	.183	4.65	2.643	67.12	.358	9.10
67S	2.938	74.62	2.461	62.52	2.015	51.18	.250	7.44	.675	17.13	2.178	55.31	.195	4.95	2.643	67.12	.358	9.10
100P	2.820	71.62	2.312	58.72	1.800	45.72	.270	6.86	.875	22.13	1.383	35.13	.183	4.65	2.493	63.32	.555	14.10
100S	2.820	71.62	2.312	58.72	1.800	45.72	.333	8.46	.875	22.13	2.002	50.85	.195	4.95	2.493	63.32	.555	14.10

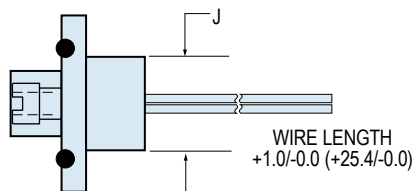
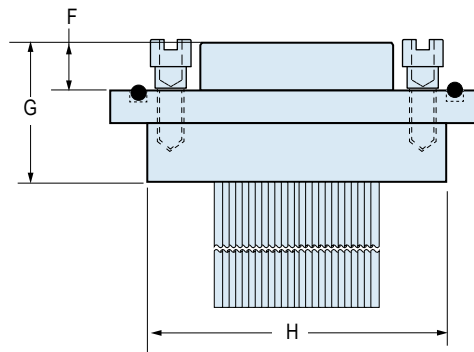


Micro-D Metal Shell GMDE Environmentally Sealed Panel Mount With O-Ring

B



REAR PANEL JACKPOST
9-67 CONTACTS #2-56 UNC-2B
100 CONTACTS #4-40 UNC-2B



GMDE CMI DIMENSIONS

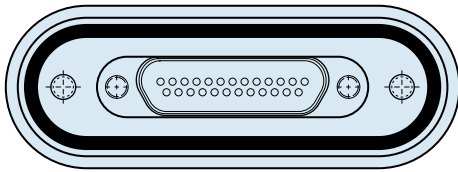
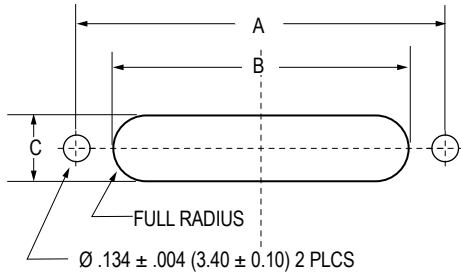
Layout	A Max.		B		C Max.		D Max.		E Max.		F Max.		G Max.		H Max.		J Max.	
	In.	mm.	In. ±.003	mm. ±0.08	In.	mm.	In.	mm.	In.	mm.	In. ±.003	mm. ±0.08	In.	mm.	In.	mm.	In.	mm.
9P	1.025	26.03	.565	14.35	.333	8.46	.184	4.67	.675	17.13	.183	4.65	.510	12.95	.795	20.13	.358	9.10
9S	1.025	26.03	.565	14.35	.400	10.16	.250	6.35	.675	17.13	.195	4.95	.526	13.36	.795	20.13	.358	9.10
15P	1.135	28.83	.715	18.16	.483	12.27	.184	4.67	.675	17.13	.183	4.65	.510	12.95	.950	24.13	.358	9.10
15S	1.135	28.83	.715	18.16	.551	14.00	.250	6.35	.675	17.13	.195	4.95	.526	13.36	.950	24.13	.358	9.10
21P	1.325	33.63	.865	21.97	.633	16.08	.184	4.67	.675	17.13	.183	4.65	.510	12.95	1.090	27.63	.358	9.10
21S	1.325	33.63	.865	21.97	.701	17.81	.250	6.35	.675	17.13	.195	4.95	.526	13.36	1.090	27.63	.358	9.10
25P	1.430	36.33	.965	24.51	.733	18.62	.184	4.67	.675	17.13	.183	4.65	.510	12.95	1.190	30.13	.358	9.10
25S	1.430	36.33	.965	24.51	.801	20.35	.250	6.35	.675	17.13	.195	4.95	.526	13.36	1.190	30.13	.358	9.10
31P	1.580	40.09	1.115	28.32	.883	22.43	.184	4.67	.675	17.13	.183	4.65	.510	12.95	1.345	34.13	.358	9.10
31S	1.580	40.09	1.115	28.32	.951	24.16	.250	6.35	.675	17.13	.195	4.95	.526	13.36	1.345	34.13	.358	9.10
37P	1.725	43.83	1.265	32.13	1.033	26.24	.184	4.67	.675	17.13	.183	4.65	.510	12.95	1.505	38.13	.358	9.10
37S	1.725	43.83	1.265	32.13	1.101	27.96	.250	6.35	.675	17.13	.195	4.95	.526	13.36	1.505	38.13	.358	9.10
51P	1.675	42.53	1.215	30.86	.983	24.97	.224	5.69	.714	18.14	.183	4.65	.510	12.95	1.445	36.63	.358	9.10
51S	1.675	42.53	1.215	30.86	1.051	26.70	.293	7.44	.714	18.14	.195	4.95	.526	13.36	1.445	36.63	.358	9.10
51-2P	2.075	52.63	1.615	41.02	1.384	35.15	.184	4.67	.675	17.13	.183	4.65	.510	12.95	1.835	46.63	.358	9.10
51-2S	2.075	52.63	1.615	41.02	1.450	36.83	.250	6.35	.675	17.13	.195	4.95	.526	13.36	1.835	46.63	.358	9.10
67P	2.465	62.63	2.015	51.18	1.284	32.61	.184	5.69	.675	17.13	.183	4.65	.510	12.95	2.250	57.13	.358	9.10
67S	2.465	62.63	2.015	51.18	1.350	34.29	.250	7.44	.675	17.13	.195	4.95	.526	13.36	2.250	57.13	.358	9.10
100P	2.600	63.50	1.800	45.72	1.383	35.13	.270	6.86	.875	22.13	.183	4.65	.585	14.83	2.135	54.13	.555	14.10
100S	2.600	63.50	1.800	45.72	1.451	36.86	.333	8.46	.875	22.13	.195	4.95	.600	15.24	2.135	54.13	.555	14.10

Micro-D Metal Shell GMDE Environmentally Sealed Panel Mount With O-Ring

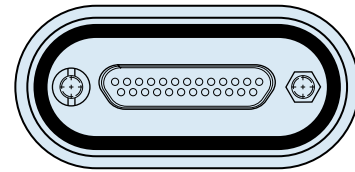
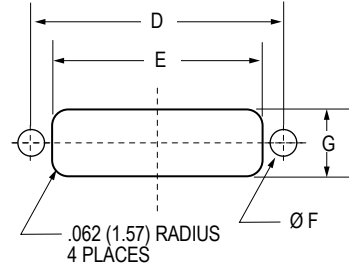


Micro-D
Harness

RMI Version



CMI Version



B

GMDE PANEL CUTOUT DIMENSIONS

Layout	A		B		C		D		E		F		G	
	In . ± .003	mm. ±0.08	In . ± .005	mm. ±0.13	In . + .005/-0	mm. +0.13/-0	In . ± .005	mm. ±0.13	In . ± .005	mm. ±0.13	In . ± .002	mm. ±0.05	In . ± .005	mm. ±0.13
9	1.011	25.69	.731	18.56	.252	6.40	.565	14.35	.406	10.31	.126	3.20	.256	6.50
15	1.161	29.50	.881	22.37	.252	6.40	.715	18.16	.556	14.12	.126	3.20	.256	6.50
21	1.311	33.31	1.031	26.18	.252	6.40	.865	21.97	.706	17.93	.126	3.20	.256	6.50
25	1.411	35.85	1.131	28.72	.252	6.40	.965	24.51	.806	20.47	.126	3.20	.256	6.50
31	1.561	39.66	1.281	32.53	.252	6.40	1.115	28.32	.956	24.28	.126	3.20	.256	6.50
37	1.711	43.47	1.431	36.34	.252	6.40	1.265	32.13	1.106	28.09	.126	3.20	.256	6.50
51	1.661	42.20	1.381	35.07	.295	7.50	1.215	30.86	1.056	26.82	.126	3.20	.300	7.62
51-2	2.061	52.36	1.781	45.23	.252	6.40	1.615	41.02	1.456	36.98	.126	3.20	.256	6.50
67	2.461	62.52	2.181	55.39	.252	6.40	2.015	51.18	2.606	66.19	.126	3.20	.256	6.50
100	2.312	58.72	2.005	50.93	.333	8.47	1.800	45.72	1.520	38.61	.148	3.76	.406	10.31

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**Glenair Compact Micro-D's
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