

GMPM Combo Micro-D for High Power Applications Pre-Wired



13 Amp Current Rating – Combo Micro-D's combine the size and weight advantages of a Micro -D connector with the added ability to handle higher power needs.

Pre-Wired And Potted with Epoxy – Gold plated power contacts accommodate up to #16 AWG stranded wire. Signal contacts accept up to #24 AWG wire.

Mil Spec Performance – Glenair combo Micro-D connectors comply with the requirements of MIL-DTL-83513 and feature excellent resistance to high temperatures, shock and vibration.

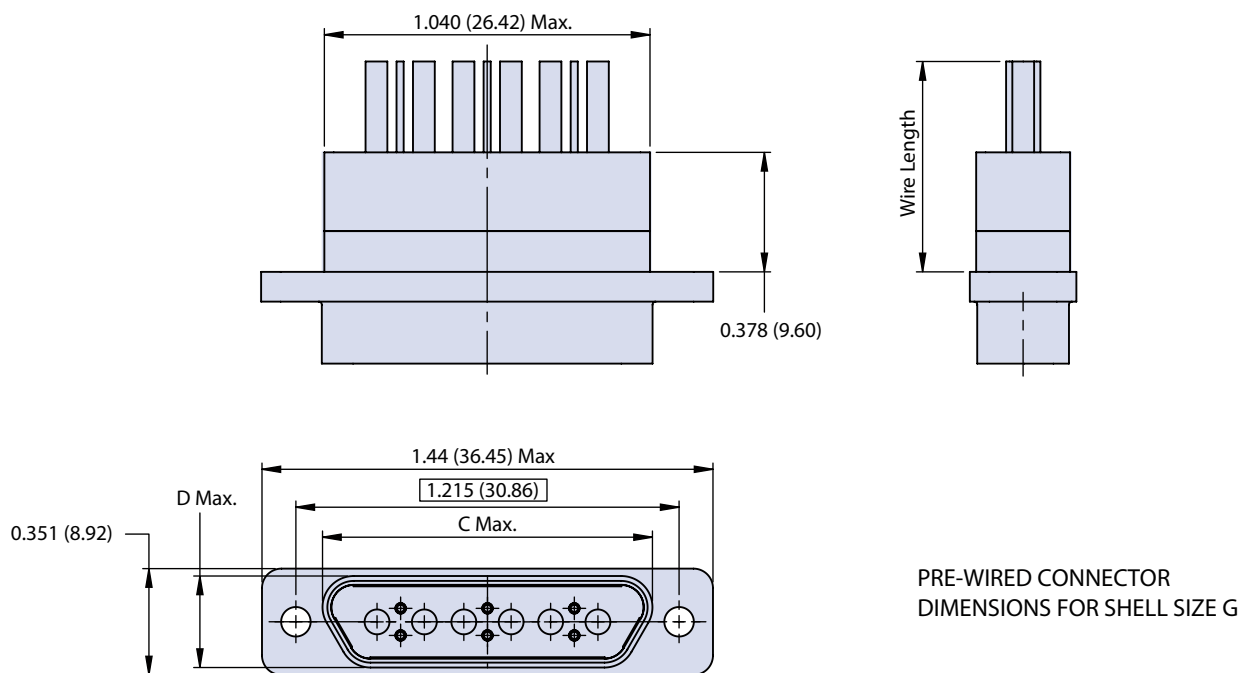
How To Order Pre-wired Micro-D Power Connectors

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Sample Part Number		GMPM	2-	B112	P	T	4	-18	K	7-	460	B
Series	GMPM											
Shell Finish	Stainless Steel Shell 1 - Cadmium 4 - Black Anodize 6 - Chem Film		2 - Nickel 5 - Gold	Stainless Steel Shell 3 - Passivated								
Shell Size and Insert Layout	B112, D112, D113, E112, E113, J112											
Shell Style	P = Plug R = Receptacle											
Cable Entry Style	T - Top Entry											
Wire Gage for #24 Contacts (AWG)	4 - #24 6 - #26 8 - #28 0 - #30 Omit for D112 and B112 layouts containing power contacts only.											
Wire Gage for #16 Contacts (AWG)	16, 18, 20											
Wire Type	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)		F - NEMA HP3-ETB Type ET M16878/6 250 Vrms					
Wire Color	1 - White 2 - Yellow 5 - Color-Coded per MIL-STD-681 7 - 10 Color Repeat Wires are solid color per MIL-STD-681 color code system. Note: #16 and #18 wire is always white. Wire colors apply to signal wire only.						Note: power contacts supplied white only					
Wire Length (mm)	460 - Wire length In millimeters, rounded up to the nearest 10 mm.											
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

Table II: Dimensions for Shell Size G Connectors



Layout	C Max		D Max	
	In.	mm.	In.	mm.
G101P	0.983	24.97	0.228	5.79
G101R	1.051	26.70	0.296	7.52
G103P	0.983	24.97	0.228	5.79
G103R	1.051	26.70	0.296	7.52
G111P	0.983	24.97	0.228	5.79
G111R	1.051	26.70	.296	7.52

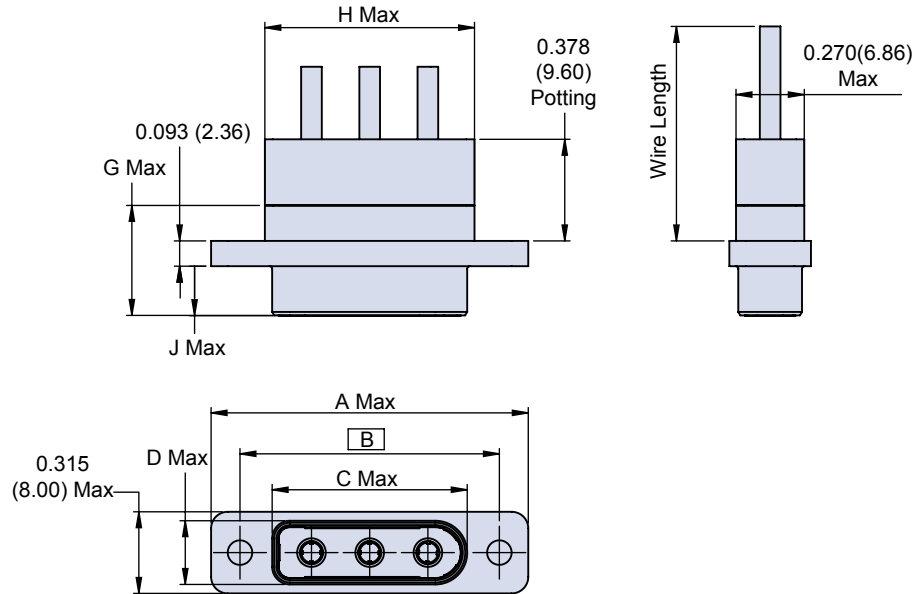
Performance Specifications	
Current Rating	3 AMP Signal Contacts 13 AMP .079" (2mm) Power Contacts
Dielectric Withstanding Voltage	600 VAC Sea Level 150 VAC 70,000 Feet
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum Signal Contacts
Low Level Contact Resistance	32 Milliohms Maximum Signal Contacts
Magnetic Permeability	2 μ Maximum
Operating Temperature	-55° C. to +150° C.
Shock	50 g.
Vibration	20 g.
Mating Force	(10 ounces) x (number of contacts)
Power Contacts	(28 ounces) x (number of contacts)

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061. See Ordering Info for Plating Options.
Insulator	Liquid Crystal Polymer (LCP)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact, TwistPin	Copper Alloy with 50 Microinches Gold over Nickel Plating
Socket Contact,	Copper Alloy with 50 Microinches Gold Over Nickel Plating
Pin Contact, 2mm. Power	Brass With 50 Microinches Gold Over Nickel Plating
Skt. Contact. 2mm. Power	Beryllium Copper With 50 Microinches Gold Over Nickel Plating
Hardware	300 Series Stainless Steel
PCB Terminals	Gold-Plated Copper Alloy, Solder Dipped
Encapsulant	Epoxy Resin

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Table III: Dimensions for Shell Size B, D, E and J



F

Layout	A Max.		B		C Max.		D Max.		G Max.		H Max.		J Max.	
	In.	mm.	In. $\pm .003$	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
B112P	.935	23.75	.715	18.16	.481	12.21	.242	6.15	.416	10.57	.550	13.97	.184	4.68
B112R	.935	23.75	.715	18.16	.547	13.92	.315	8.00	.429	10.90	.550	13.97	.197	5.01
D112P	1.185	30.01	.965	24.51	.731	18.56	.242	6.15	.416	10.57	.800	20.32	.184	4.68
D112R	1.185	30.01	.965	24.51	.798	20.27	.315	8.00	.429	10.90	.800	20.32	.197	5.01
D113P	1.185	30.01	.965	24.51	.731	18.56	.242	6.15	.416	10.57	.800	20.32	.184	4.68
D113R	1.185	30.01	.965	24.51	.798	20.27	.315	8.00	.429	10.90	.800	20.32	.197	5.01
E112P	1.335	33.91	1.115	28.32	.881	22.37	.242	6.15	.416	10.57	.950	24.13	.184	4.68
E112R	1.335	33.91	1.115	28.32	.948	24.08	.315	8.00	.429	10.90	.950	24.13	.197	5.01
E113P	1.335	33.91	1.115	28.32	.881	22.37	.242	6.15	.416	10.57	.950	24.13	.184	4.68
E113R	1.335	33.91	1.115	28.32	.948	24.08	.315	8.00	.429	10.90	.950	24.13	.197	5.01
J112P	1.835	46.61	1.615	41.02	1.381	35.07	.242	6.15	.416	10.57	1.450	36.83	.184	4.68
J112R	1.835	46.61	1.615	41.02	1.448	36.78	.315	8.00	.429	10.90	1.450	36.83	.197	5.01