

MLDM Low Profile Metal Shell Micro-D Insulated Wire Termination



Micro-D Double and Triple Row



Low profile MLDM connectors have reduced flange height compared to standard MWDM Micro-D connectors. These .050" pitch Micro-D connectors are supplied with stranded mil spec hookup wire. Contacts are crimped to wire and potted with epoxy. Pin contacts are gold-plated high performance TwistPin type and are recessed into insulator to prevent damage. Socket contacts are gold plated, machined copper alloy. Machined aluminum shell. Glass-filled high temperature LCP thermoplastic insulators. M22759/11 standard wire, or M22959/33 lightweight, high strength space grade wire. Meets performance requirements of MIL-DTL-83513. Available with 9 to 51 contacts. 3 A., 600 Vac, -55°C to +150°C.

How To Order Insulated Wire Connector	
Sample Part Number	MLDM2L -31 P -6 K 5 -18 M
Series	<p>MLDM1L Low Profile Metal Shell Micro-D With Yellow Chromate Over Cadmium Finish</p> <p>MLDM2L Low Profile Metal Shell Micro-D With Electroless Nickel Shell Finish</p> <p>MLDM32L Low Profile Metal Shell Micro-D With Black Zinc Nickel Shell Finish</p> <p>MLDM33L Low Profile Metal Shell Micro-D With Nickel-Fluorocarbon Shell Finish</p>
Contact Layout	9, 15, 21, 25, 31, 37, 51, 51-2 (See Table II)
Contact Type	P - Pin S - Socket
Wire Gage (AWG)	4 - #24 6 - #26 8 - #28 0 - #30 (J wire type only)
Wire Type	<p>K Standard Wire Extruded PTFE per M22759/11, Silver-Plated Conductors</p> <p>J Space Grade Wire High Strength, Lightweight, Crosslinked Modified ETFE per M22759/33, Silver-Plated Conductors</p>
Wire color Code	1 - White 5 - Color-Coded per MIL-STD-681 7 - 10 Color Repeat (Wires are solid color per MIL-STD-681 color code system.)
Wire Length	Wire Length In Inches Example: 18 = 18 inches;
Mounting Hardware	B, M, M1, S, S1, L, F, H, P, K, R

Table I: Mounting Hardware										
B	P	M	M1	S	S1	L	K	F	R	H
Thru-Hole	Jackpost #2-56	Hex Head Jackscrew #2-56	Hex Head Jackscrew, Extended #2-56	Slot Head Jackscrew #2-56	Slot Head Jackscrew, Extended #2-56	Hex Head Jackscrew Non-Removable #2-56	Slot Head Jackscrew Non-Removable Extended #2-56	Float Mount For Front Panel Mounting	Float Mount For Rear Panel Mounting	Threaded Insert #2-56



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Table II: Dimensions



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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	.788	20.02	.565	14.35	.292	7.42	.134	3.40	.218	5.54	.199	5.05	.390	9.91	.175	4.45	.405	10.29
9S	.788	20.02	.565	14.35	.380	9.65	.218	5.54	.218	5.54	.180	4.57	.377	9.58	.175	4.45	.405	10.29
15P	.938	23.83	.715	18.16	.442	11.23	.134	3.40	.218	5.54	.199	5.05	.390	9.91	.175	4.45	.555	14.10
15S	.938	23.83	.715	18.16	.530	13.46	.218	5.54	.218	5.54	.180	4.57	.377	9.58	.175	4.45	.555	14.10
21P	1.088	27.64	.865	21.97	.592	15.04	.134	3.40	.218	5.54	.199	5.05	.390	9.91	.175	4.45	.705	17.91
21S	1.080	27.64	.865	21.97	.680	17.27	.218	5.54	.218	5.54	.180	4.57	.377	9.58	.175	4.45	.705	17.91
25P	1.188	30.18	.965	24.51	.692	17.58	.134	3.40	.218	5.54	.199	5.05	.390	9.91	.175	4.45	.805	20.45
25S	1.185	30.18	.965	24.51	.780	19.81	.218	5.54	.218	5.54	.180	4.57	.377	9.58	.175	4.45	.805	20.45
31P	1.338	33.99	1.115	28.32	.842	21.39	.134	3.40	.218	5.54	.199	5.05	.390	9.91	.175	4.45	.955	24.26
31S	1.338	33.99	1.115	28.32	.930	23.62	.218	5.54	.218	5.54	.180	4.57	.377	9.58	.175	4.45	.955	24.26
37P	1.488	37.80	1.265	32.13	.992	25.20	.134	3.40	.218	5.54	.199	5.05	.390	9.91	.175	4.45	1.105	28.07
37S	1.488	37.80	1.265	32.13	1.080	27.43	.218	5.54	.218	5.54	.180	4.57	.377	9.58	.175	4.45	1.105	28.07
51P	1.438	36.53	1.215	30.86	.942	23.93	.177	4.50	.260	6.60	.199	5.05	.390	9.91	.220	5.59	1.058	26.87
51S	1.438	36.53	1.215	30.86	1.030	26.16	.260	6.60	.260	6.60	.180	4.57	.377	9.58	.220	5.59	1.058	26.87
51-2P	1.835	46.61	1.615	41.02	1.340	34.04	.134	3.40	.218	5.54	.199	5.05	.390	9.91	.175	4.45	1.455	36.96
51-2S	1.835	46.61	1.615	41.02	1.425	36.20	.218	5.54	.218	5.54	.180	4.57	.377	9.58	.175	4.45	1.455	36.96