

# MLDM Low Profile Metal Shell Micro-D Solder Cup Contact 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 solder cup Micro-D connectors accept #26 to #30 gage wire with standard contacts and up to size #24 wire with "large bore" contacts. Contacts are factory-installed 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 withstand soldering heat. 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 Solder Cup Connector

Sample Part Number	MLDM2L	-25	PS	B
<b>Series</b>	<p><b>MLDM1L</b> Low Profile Metal Shell Micro-D with Yellow Chromate over Cadmium Shell Finish (Good corrosion protection, not RoHS compliant)</p> <p><b>MLDM2L</b> Low Profile Metal Shell Micro-D with Electroless Nickel Shell Finish (RoHS compliant, preferred for space vehicles and protected environments)</p> <p><b>MLDM32L</b> Low Profile Metal Shell Micro-D with Black Zinc Nickel Shell Finish (RoHS compliant, preferred for tactical equipment where a black finish and good corrosion protection are required)</p> <p><b>MLDM33L</b> Low Profile Metal Shell Micro-D with Nickel-Fluorocarbon Shell Finish (RoHS compliant, excellent corrosion protection, grey color)</p>			
<b>Contact Layout</b>	9, 15, 21, 25, 31, 37, 51, 51-2 (See Table II)			
<b>Contact Type</b>	<p>Size #26 Solder Cup Contacts (Standard)</p> <p>PS, - Pin SS, - Socket</p> <p>Size #24 Solder Cup Contacts</p> <p>TS, - Socket NS, - Pin</p>			
<b>Mounting Hardware</b>	B, P, M, M1, S, S1, L, K, F, R, H (See Table I)			

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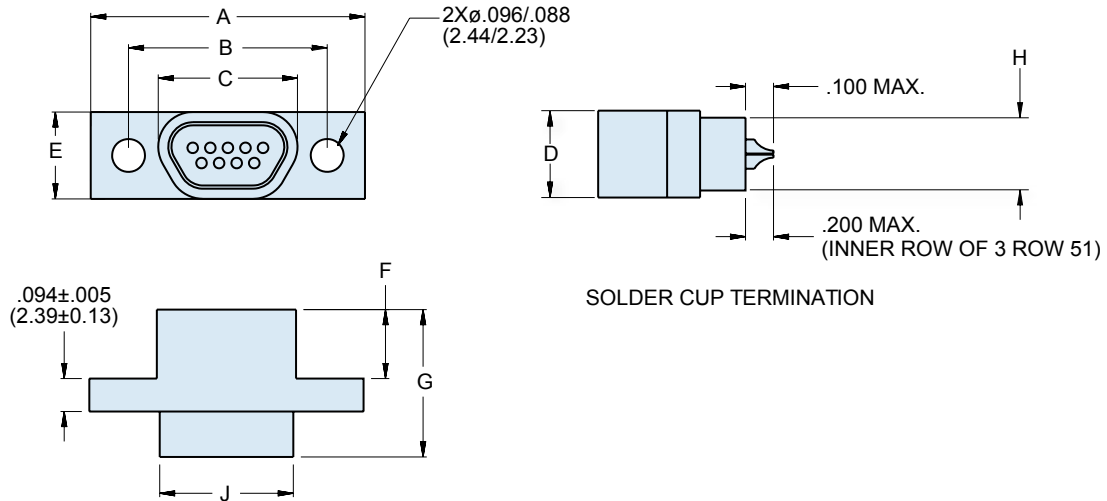
Table I: Mounting Hardware

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



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.
<b>9P</b>	.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
<b>9S</b>	.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
<b>15P</b>	.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
<b>15S</b>	.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
<b>21P</b>	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
<b>21S</b>	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
<b>25P</b>	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
<b>25S</b>	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
<b>31P</b>	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
<b>31S</b>	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
<b>37P</b>	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
<b>37S</b>	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
<b>51P</b>	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
<b>51S</b>	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
<b>51-2P</b>	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
<b>51-2S</b>	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

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