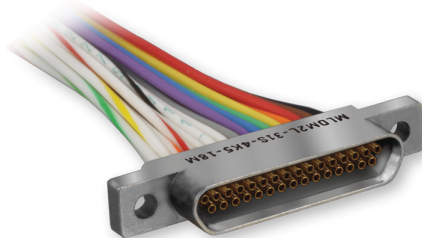




Low Profile Metal and Plastic Shell Micro-D Connector Specifications

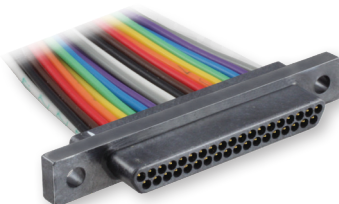
MLDM

Low Profile Metal Shell Connector



MWDL

Low Profile All-Plastic Connector



- Metal Shell or One-Piece Plastic
- High Reliability TwistPin Contact System
- .050" Pitch Contact Spacing
- Solder Cup, Pre-Wired or PCB
- 3 Amps, +150°C, 600 Vac

E

Low Profile Metal Shell and Plastic Shell Micro-D's Save Space Compared to MWDM Metal Shell Connectors

Low profile MLDM metal shell and MWDL plastic shell connectors are intended for high reliability board-to-wire I/O and wire-to-wire applications. Gold-plated TwistPin contacts provide excellent performance when subjected to high levels of shock and vibration. Plastic and metal versions are intermateable. Flange height is reduced by 33% compared to MWDM standard Micro-D connectors.

SIZE COMPARISON



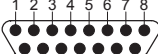
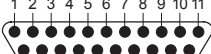
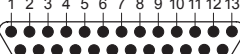
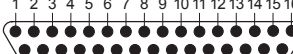
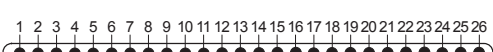
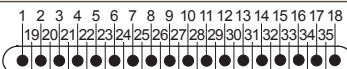
MLDM 51 Pin Low Profile



MWDM 51 Pin Standard Height

NOTE: Not intermatable with Standard MWDM Interface

Low Profile MLDM and MWDL Contact Arrangements

 1 2 3 4 5 6 7 8 9 9	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 21	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 31
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 37	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 51-2	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 51		

Mating face of pin connector. Socket connector contact numbers are reversed.

Materials and Finishes	
Contacts	Copper alloy, 50 µm thick gold over nickel
Insulator, MWDL Body	Liquid crystal polymer (LCP or PPS)
MLDM Shell	Aluminum alloy
Mounting Hardware	Stainless Steel
Potting Compound	Epoxy
Insulated Wire	Per MIL-W-22759/11 and /33
Solid Wire, PC Tails	Per A-A-59551, gold plated or tinned

Specifications	
Current Rating	3 Amps
Contact Resistance	8 milliohms maximum
Dielectric Withstanding Voltage	600 Vac sea level
Insulation Resistance	5000 megohms minimum
Operating Temperature	-55°C. to +150°C.
Shock	50 g.
Vibration	20 g.