

MIL-DTL-83513 / MICRO-D

SOLDER CUP MICRO-D QPL

Omnetics Micro-D Connectors serve the military and elevate aeronautics applications. They are an outstanding choice for critical applications in every industry where reliability and performance are paramount. Our scaled-down refinement of the classic D-sub connector serves SWaP goals with reduced sizes and lightweight materials. These powerful components meet or exceed the rigorous requirements of MIL-DTL-83513. Our standard and COTS models are available in shell styles that range from 9 to 51 contacts. Omnetics' innovative flex pin design helps deliver uninterrupted connectivity under strenuous conditions where shock and vibration are everyday realities. The gold-plated flex pin is designed for >2,000 mating cycles. These connectors are engineered to operate at temperatures ranging from -55°C to 125°C, making them a solid choice for applications anywhere on Earth.



Electro-Mechanical Specifications

TYPE	PERFORMANCE
Durability	>2000 Mating Cycles Max [500 Mating Cycles min]*
Temperature	-55°C to +125°C
Current rating	3 Amps per contact
Voltage Rating (DWV)	600 VAC RMS Sea Level
Insulation Resistance	5,000 Megohms @ 500 VDC
Shock	50 g's with no discontinuities > 1 microsecond
Vibration	20 g's with no discontinuities > 1 microsecond
Thermal Vacuum Outgassing	1.0% max TML, 0.1% max CVCM
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513
Mating/Unmating Force	3 oz (85g) typical per contact*

Material Specifications

TYPE	PERFORMANCE
Shell Material and Finish	Aluminum Shell, Cadmium Plated Aluminum Shell, Electroless Nickel Plated Stainless Steel Shell, Passivated
Insulator	Thermoplastic per MIL-DTL-83513
Contact	Copper Alloy per MIL-DTL-83513
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Encapsulant	Epoxy

*MIL-DTL-83513 specification minimum requirement

SOLDER CUP MICRO-D QPL ORDERING GUIDE



1 Component Assembly	MMDP-01 Plug, Pin Contacts	MMDS-02 Receptacle, Socket Contacts
2 Number of Contacts	A 9 contacts B 15 Contacts C 21 Contacts D 25 Contacts	E 31 Contacts F 37 Contacts G 51 Contacts
3 Shell Material and Finish	C Aluminum, Cadmium Finish	N Aluminum, Electroless Nickel Finish (STD)
	P Stainless Steel, Passivated	

DUAL ROW MICRO-D DISCRETE WIRED QPL

Omnetics MIL-DTL-83513 Micro-D Connectors are ideal for critical, high reliability industries including aerospace, military and petroleum. They are also used in devices such as optics, guidance systems, on-board equipment, space, and UAV systems. They are built to meet or exceed the specifications of MIL-DTL-83513. These highly rugged and compact designs are available in shell styles from 9 to 51 contacts. The Micro-D connectors incorporate Omnetics one-piece flex pin design for greater shock and vibration resistance. The high reliability gold plated flex pin is designed for >2,000 mating cycles. Omnetics Micro-D connectors will operate from -55°C to 125°C.



Electro-Mechanical Specifications

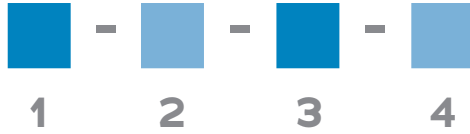
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Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513
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Material Specifications

TYPE	PERFORMANCE
Shell Material and Finish	Aluminum Shell, Cadmium Plated Aluminum Shell, Electroless Nickel Plated Stainless Steel Shell, Passivated
Insulator	Thermoplastic per MIL-DTL-83513
Contact	Copper Alloy per MIL-DTL-83513
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Encapsulant	Epoxy

*MIL-DTL-83513 specification minimum requirement

DUAL ROW MICRO-D DISCRETE WIRED QPL ORDERING GUIDE



1 Component Assembly	MMDP-03 Plug, Pin Contacts MMDS-04 Receptacle, Socket Contacts
2 Number of Contacts	A 9 contacts B 15 Contacts C 21 Contacts D 25 Contacts E 31 Contacts F 37 Contacts G 51 Contacts
3 Wire Type	See M83513 Wire Type table below
4 Shell Material and Finish	C Aluminum, Cadmium Finish N Aluminum, Electroless Nickel Finish (Std) P Stainless Steel, Passivated

M83513 Wire Type

Wire Type	Specification	Length (Inches)
01	M22759/11-26-9	18
02		36
03	M22759/11-26-#	18
04		36
09	M22759/33-26-9	18
10		36
11	M22759/33-26-#	18
12		36
13	M22759/11-26-9	72
14	M22759/11-26-#	
15	M22759/33-26-9	
16	M22759/33-26-#	