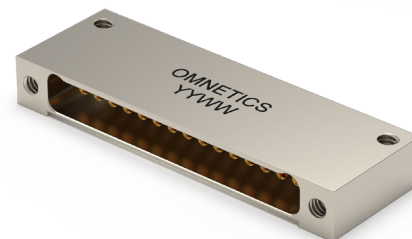


# SINGLE ROW MICRO-D 90° BOARD MOUNT (TYPE AA)

Omnetics' Ultra Low Profile **Micro-D 90° Board Mount connectors** provide precision mating directly on the board in small device designs. This rugged connector serves high-reliability markets such as the military, aerospace, oil and gas, and medical industries. Omnetics' Flex Pin design delivers additional protection against shock and vibration in harsh operating environments. Our connectors meet or exceed the demanding requirements of MIL-DTL-83513. Omnetics engineers this product to endure more than 2,000 mating cycles in operating conditions that include temperate extremes ranging from -55° to 200°C.



## Electro-Mechanical Specifications

TYPE	PERFORMANCE
Durability	> 2000 Mating Cycles min
Temperature	-55°C to +125°C (200 °C w/HTE)
Current rating	3 Amps per contact per MIL-DTL-83513
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, 0.03% max CVCM - NASA SP-R-0022
Contact Resistance	26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513
Mating/Unmating Force	3 oz. (.85g) typical per contact

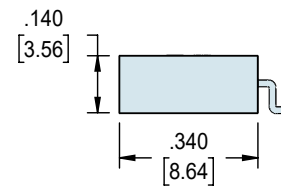
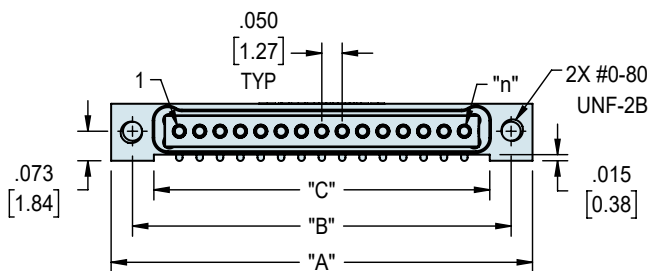
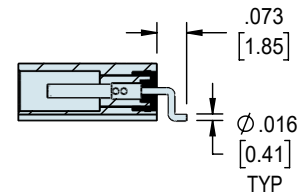
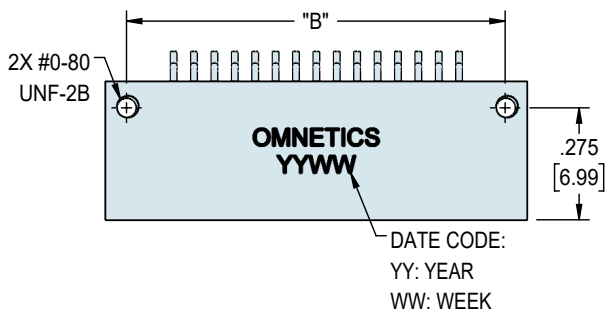
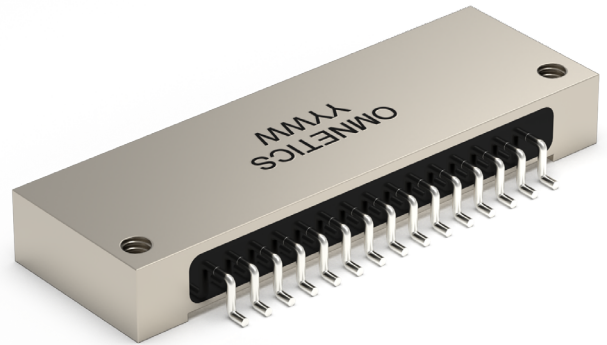
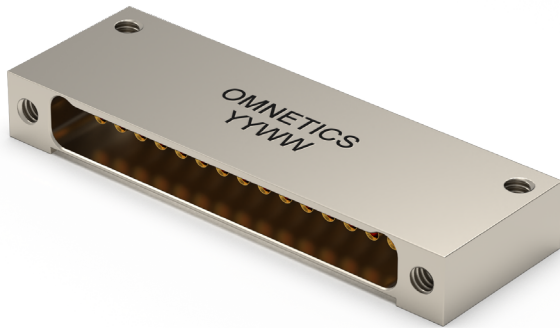
## Material Specifications

TYPE	PERFORMANCE
Contact	Copper Alloy Per MIL-DTL-83513
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator	Thermoplastic per MIL-M-24519
Interfacial Seal	Silicone Elastomer per A-A-59588
Hardware	Stainless Steel, 300 Series, Passivated per SAE AMS-2700

## Shell Options

MATERIAL	FINISH
Aluminum 6061	Electroless Nickel per SAE-AMS-2404
Stainless Steel, 300 Series	Passivated per SAE-AMS-2700

# SINGLE ROW MICRO-D 90° BOARD MOUNT (TYPE AA)

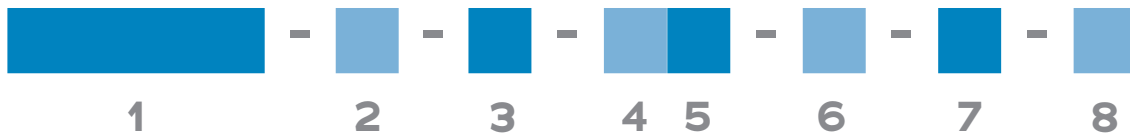


CONTACTS	ROWS	"A"	"B"	"C"
4	1	.485 [12.32]	.380 [9.65]	.275 [6.99]
9	1	.735 [18.67]	.630 [16.00]	.525 [13.34]
15	1	1.035 [26.29]	.930 [23.62]	.825 [20.96]
21	1	1.335 [33.91]	1.230 [31.24]	1.125 [28.58]
25	1	1.535 [38.99]	1.430 [36.32]	1.325 [33.66]
31	1	1.835 [46.61]	1.730 [43.94]	1.625 [41.28]
37	1	2.135 [54.23]	2.030 [51.56]	1.925 [48.90]

DIMENSIONS IN [ ] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY

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## ORDERING GUIDE



<b>1 Series</b>	MMSS Metal Micro-D Single Row Socket						
<b>2 Number of Contacts</b>	O4	O9	15	21	25	31	37
<b>3 Termination Type</b>	AA 90° Board Mount						
<b>4 Wire AWG</b>	4 24 AWG		6 26 AWG (STD)		8 28 AWG		0 30 AWG
<b>5 Wire Type</b>	Q Nema HP3 (STD)		R M22759/11		S M22759/33		X Other
<b>6 Wire Length</b>	18.0 18.00 (STD)			XX.X Custom length			
<b>7 Color Scheme</b>	1 10 Repeating		2 Blue	3 White	4 Non Repeating		5 Yellow
<b>8 Shell Material &amp; Finish</b>	N Aluminum Shell, Electroless Nickel Plated			CD Aluminium Shell, Cadmium Plated			
	B Aluminium Shell, Black Anodized			P Stainless Steel Shell, Passivated			
<b>9 Hardware</b>	EJS End Jack Screw (MMSP only)			ETH End Threaded Hole (MMSS only)			
<b>10 Common Options</b>	HT High Temp Epoxy			RH RoHS Compliant			
<b>11 Shield / Jacket</b>	D Slip On Metal Braid	E Machine Braid		F Flexo Braid			
	J Nomex Braid		ST Shrink Tube				
<b>12 Mod Codes</b>	M10 Keyed			M30 Ground Spring			
	M50 Space Grade Micro-D, SPT1			M53 Space Grade Micro-D, SPT2			
<b>13 Special Instructions</b>	YYY Describe anything that is not covered in standard options						