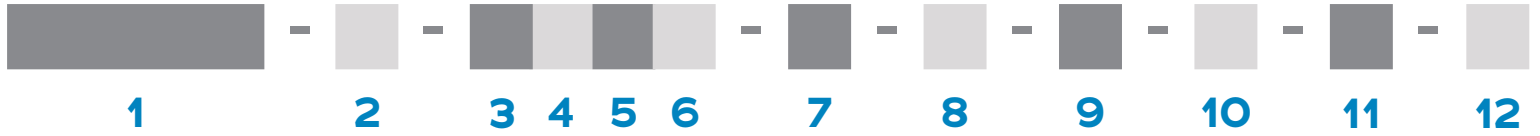
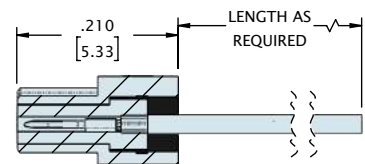
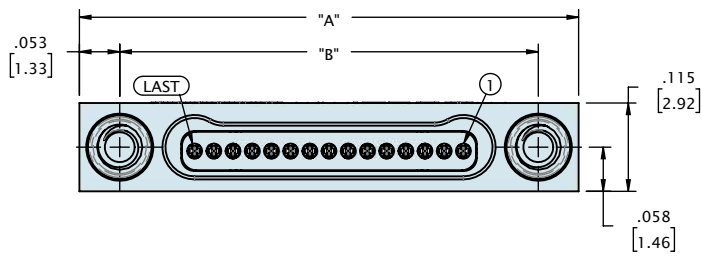
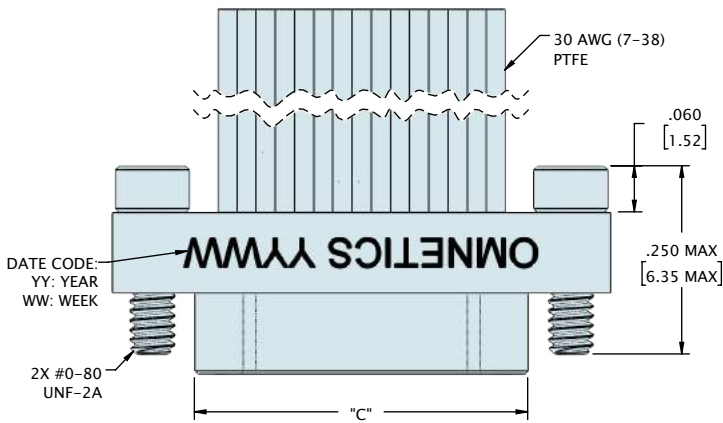


ORDERING GUIDE



1 Series	MBPS Metal Bi-Lobe Pin Single-Row	MBSS Metal Bi-Lobe Socket Single-Row
2 Number Of Contacts	05 09 15 21 25 31 37 51	
3 Termination Type	WD Discrete Wires	
4 Wire Gage	0 30 AWG (STD)	2 32 AWG
5 Wire Type	Q NEMA HP3 (formerly M16878/4 and /6)	XX.X M22759/33 (30 AWG only)
6 Wire Length	18.0 18.00" (STD)	XX.X Custom Length
7 Color Scheme	C 10 Repeating Colors Per MIL STD 681	Y All Other Wire Colors
8 Shell Material & Finish	N Aluminum Shell, Electroless Nickel Plated B Aluminium Shell, Black Anodized T Titanium Shell, Unplated	CD Aluminium Shell, Cadmium Plated S Stainless Steel Shell, Passivated
9 Common Options	ETH End Threaded Hole, #0-80 YY Non Standard Hardware (threaded holes, thumb screws, #2-56 screw) HT High Temp. Epoxy BS1 Standard Straight Backshell BS3 90/RA Oval BSY Custom Backshell	EJS End Jack Screw RH RoHS Compliant BS2 45 Oval BS4 2 Piece BS CS Customer Supplied Material
10 Shield / Jacket	D Slip-on Braid E Machine Braid F Flexo Braid J Nomex Braid ST Shrink Tube	
11 Mod Codes	M10 Keyed M50 Space Grade Nano-D, SPT1	M30 Ground Spring M53 Space Grade Nano-D, SPT2
12 Special Instructions	YYY Describe anything that is not covered in standard options	

SINGLE ROW PRE-WIRED (TYPE WD)

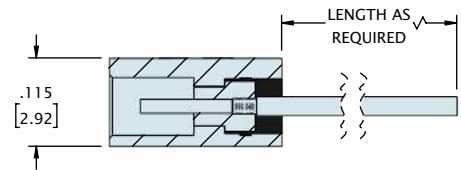
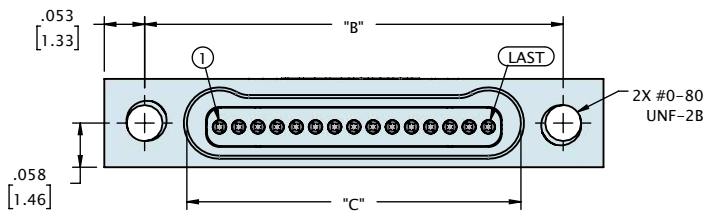
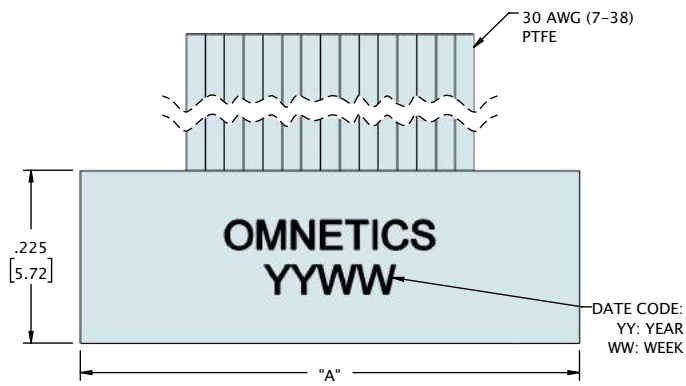


JACKSCREW NOT SHOWN FOR CLARITY

CONTACTS	"A"	"B"	"C"
05	.400 [10.16]	.295 [7.49]	.184 [4.67]
09	.500 [12.70]	.395 [10.03]	.284 [7.21]
15	.650 [16.51]	.545 [13.84]	.434 [11.02]
21	.800 [20.32]	.695 [17.65]	.584 [14.83]
25	.900 [22.86]	.795 [20.19]	.684 [17.37]
31	1.050 [26.67]	.945 [24.00]	.834 [21.18]
37	1.200 [30.48]	1.095 [27.81]	.984 [24.99]
51	1.550 [39.37]	1.445 [36.70]	1.334 [33.88]

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

SINGLE ROW PRE-WIRED (TYPE WD)



CONTACTS	"A"	"B"	"C"
05	.400 [10.16]	.295 [7.49]	.185 [4.70]
09	.500 [12.70]	.395 [10.03]	.285 [7.24]
15	.650 [16.51]	.545 [13.84]	.435 [11.05]
21	.800 [20.32]	.695 [17.65]	.585 [14.86]
25	.900 [22.86]	.795 [20.19]	.685 [17.40]
31	1.050 [26.67]	.945 [24.00]	.835 [21.21]
37	1.200 [30.48]	1.095 [27.81]	.985 [25.02]
51	1.550 [39.37]	1.445 [36.70]	1.335 [33.91]

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

SINGLE ROW PRE-WIRED (TYPE WD)

Omnetics' **Pre-Wired Single Row Bi-Lobe®** nanos feature 30 AWG or smaller sizes of stranded wire. They are assembled using our proprietary semi-automated crimping system, as their very small size requires special care and precision to accomplish a perfect crimp. Each unit is carefully hand-inspected throughout the assembly process. Pre-crimped wires and contacts are potted in place to further protect the integrity of the crimp joint. Designers may specify wire type, size, and color coding to achieve a near-custom part. COTS versions are also available with 18" of color-coded AWG Teflon for quick turnaround. These connectors come in standard sizes ranging from 5 to 51 positions as well as custom configurations. Omnetics also offers full QPL versions of MIL-DTL-32139.



Electro-Mechanical Specifications

TYPE	PERFORMANCE
Durability	> 2000 Mating Cycles min
Temperature	-55°C to +125 °C (200 °C w/HTE)
Current rating	1 Amp per contact
Voltage Rating (DWV)	250 VAC RMS Sea Level
Insulation Resistance	5,000 Megohms @ 100 VDC
Shock	100 g's discontinuity < 10 nanoseconds
Vibration	20 g's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing	1.0% max TML, 0.1% VCM
Contact Resistance	71 milliohms (71 mV) max @ 1 Amp
Mating/Unmating Force	2.5 oz. (.71g) typical per contact

Material Specifications

TYPE	PERFORMANCE
Contact	Copper Alloy Per MIL-DTL-32139
Contact Finish	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator	Thermoplastic per MIL-M-24519
Encapsulant	Epoxy

Shell Options

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