DUAL ROW PRE-WIRED (TYPE WD) WITH BACKSHELL (SHIELDED)

ORDERING GUIDE

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1	Series	MNP	MNPO Metal Nano Pin Offset				MNSC	MNSO Metal Nano Socket Offset					
2	Number Of Contacts	09	15	21	25	31	37	51	65	69	85	91	
3	Termination Type	WD Discrete Wires WC Cable											
4	Wire Gage	0 30	O AWG (S	STD)		2	32 AW	G					
5	Wire Type	Q NI	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	C 10 Repeating Colors Per MIL STD 681 Y All Other Wire Color										
8	Shell Material & Finish	 N Aluminum Shell, Electroless Nickel Plated B Aluminium Shell, Black Anodized T Titanium Shell, Unplated CD Aluminium shell, Cadmium Plate S Stainless steel Shell, Passivated 											
		ETH End Threaded Hole, #0-80 EJS End Jack Screw					/						
		YY Non Standard Hardware (threaded holes, thumb screws, #2-56 screw)											
		HT High Temp. Epoxy							RH	RoHS Co	ompliant		
9	Common Options	BS1	BS1 Standard Straight Backshell						BS2 45 Oval				
		BS3	BS3 90/RA Oval						BS4 2 Piece BS				
		BSY Custom Backshell CS Customer Supplied Mate							ied Material				
10	Shield / Jacket	D Sli	ip-on Bra	id E N	Machine	Braid	F Flex	o Braid	J Nom	nex Braid	ST S	Shrink Tube	
44		M10 Keyed M30 Ground Spring											
11	Mod Codes	M50	Space	Grade N	Nano-D,	SPT1	M53	Space	e Grade	Nano-D,	SPT2		
12	Special Instructions	YYY Describe anything that is not covered in standard options											

A28111-0XX

A29111-0XX

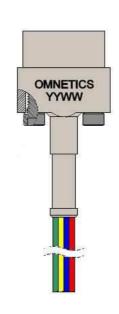
A29111-1XX

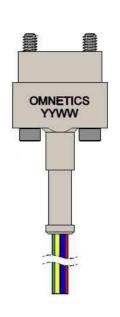
MNPO-XX-WD0Q18.0-C-N-EJS-BS1

MNSO-XX-WD0Q18.0-C-N-ETH-BS1

MNSO-XX-WD0Q18.0-C-N-EJS-BS1







A43090-0XX

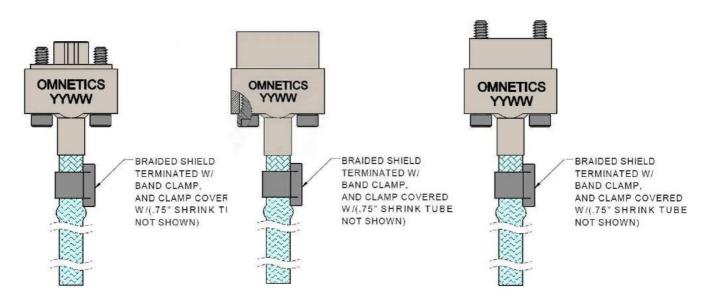
A43091-0XX

A43091-1XX

MNPO-XX-WD0Q18.0-C-N-EJS-BS1-D

MNSO-XX-WD0Q18.0-C-N-ETH-BS1-D

MNSO-XX-WD0Q18.0-C-N-EJS-BS1-D



DUAL ROW PRE-WIRED (TYPE WD)

Pre-Wired Dual Row Bi-Lobe[®] nanos feature 30 AWG or smaller sizes of stranded wire. Omnetics assembles them 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 with 18" of color-coded AWG Teflon are also available for quick turnaround. These connectors come in standard sizes ranging from 9 to 91 positions, as well as custom configurations. Omnetics also offers full QPL versions of MIL-DTL-32139.



Electro-Mechanical Specifications

ТҮРЕ	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

ТҮРЕ	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	Ероху			

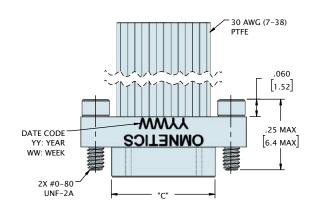
Shell Options

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

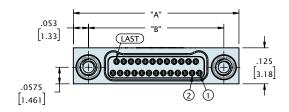
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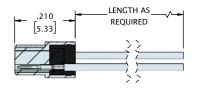












JACKSCREW HIDDEN FOR CLARITY

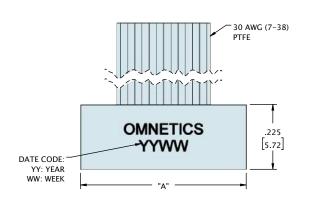
CONTACTS	"A"	"B"	"C"
09	.375 [9.53]	.270 [6.86]	.160 [4.06]
15	.450 [11.43]	.345 [8.76]	.235 [5.97]
21	.525 [13.34]	.420 [10.67]	.310 [7.87]
25	.575 [14.61]	.470 [11.94]	.360 [9.14]
31	.650 [16.51]	.545 [13.84]	.435 [11.05]
37	.725 [18.42]	.620 [15.75]	.510 [12.95]
51	.900 [22.86]	.795 [20.19]	.685 [17.40]
65	1.075 [27.31]	.970 [24.64]	.860 [21.84]
69	1.125 [28.58]	1.020 [25.91]	.910 [23.11]
85	1.325 [33.66]	1.220 [30.99]	1.110 [28.19]
91	1.452 [36.88]	1.321 [33.55]	1.185 [30.10]

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

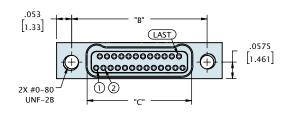
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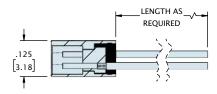












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25	.575 [14.61]	.470 [11.94]	.363 [9.22]
31	.650 [16.51]	.545 [13.84]	.438 [11.13]
37	.725 [18.42]	.620 [15.75]	.513 [13.03]
51	.900 [22.86]	.795 [20.19]	.688 [17.48]
65	1.075 [27.31]	.970 [24.64]	.863 [21.92]
69	1.125 [28.58]	1.020 [25.91]	.913 [23.19]
85	1.325 [33.66]	1.220 [30.99]	1.113 [28.27]
91	1.452 [36.88]	1.321 [33.55]	1.188 [30.18]

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