

OMNETICS CONNECTOR CORPORATION

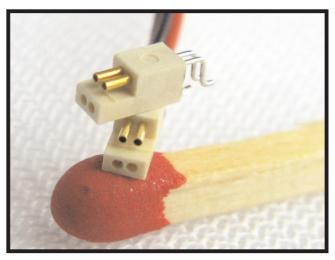
The World Leader in Nano Connection

Polarized Nano Series

The Polarized Nano series is the most compact arrangement yet coming out of Omnetics Connector Corporation. The insulators are designed to hold one row of pins and one row of sockets. This configuration effectively polarizes the connector without the additional space required for guide pins.

The .025" (.64 mm) spacing and mil quality, gold plated contact system makes this one of the smallest Hi-Rel connectors on the market today. The Polarized nano series is available in 4, 6, 8, 10 and 12 position sizes.

Termination options include: Pre-Wiring, Straight tail, Horizontal SMT, and Vertical SMT.



12 Position Polarized Nano Wired and SMT

Material Specs

Insulator:

Thermoplastic Polyester, MIL-M-24519,

Type GLCP-30F

Sockets:

Copper Alloy per MIL-DTL-32139

Pins:

Beryllium Copper per ASTM B194, Allov C17200

Contact Finish:

Gold plate per ASTM B488, Type II (Hard Gold), Code C, Class 1.27

Thickness = .00005" (1.27 µm)

Electrical Specs

Current: 1 amp per contact

Dielectric Withstanding Voltage: 350 VAC RMS

Insulation Resistance:

5000 Meg ohms min @ 100 VDC

Contact Resistance:

25 milliohms (25 mv) max @ 1.0 amp

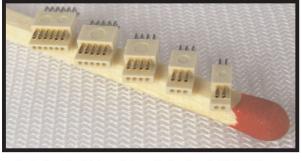
Temperature: -55°C to 125°C (200°C with HTE)

Vibration:

20 G's, no discontinuity greater than 10 nanoseconds

Shock:

100 G's, no discontinuity greater than 10 nanoseconds



4, 6, 8, 10, 12 Position Polarized SMT Nano

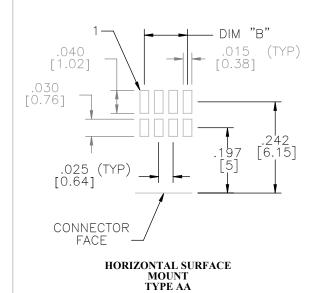
Omnetics Connector Corporation

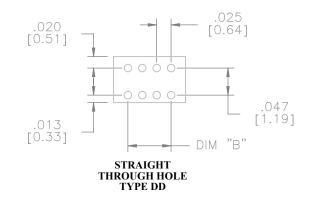
7260 Commerce Circle East Minneapolis, MN 55432

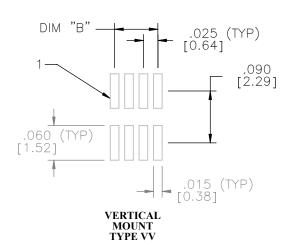
Phone: 763-572-0656

Fax: 763-572-3925

Web Site: www.omnetics.com







SOCKET #	COLOR		
1, 11	BLACK		
2,12	BROWN		
3	RED		
4	ORANGE		
5	YELLOW		
6	GREEN		
7	BLUE		
8	VIOLET		
9	GRAY		
10	WHITE		

WIRE COLOR CODING

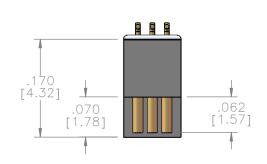
Pad Layout	Pad Layout Dimension (Dim "B")			
	Inches	[mm]		
4 Contacts	= .025	=_0.64_		
6 Contacts	= .050	= 1.27		
8 Contacts	= .075	= 1.91		
10 Contacts	= .100	= 2.54		
12 Contacts	= .125	= <u>3.18</u>		

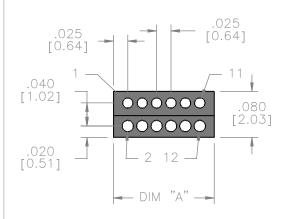
7260 COMMERCE CIRCLE EAST MINNEAPOLIS, MN 55432 (763) 572-0656 WWW.OMNETICS.COM

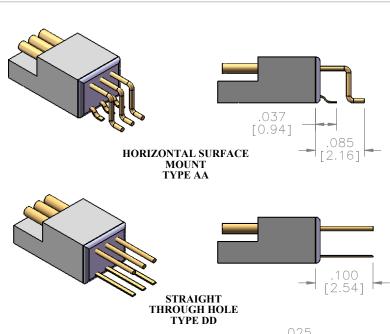


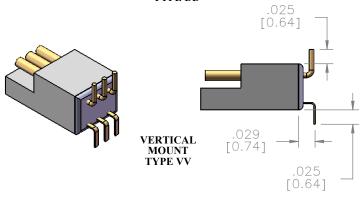
SERIES PZN POLARIZED NANO CONNECTOR CAGE CODE: **61873**

DIMENSIONS IN INCHES ±.005 [mm] ±.13



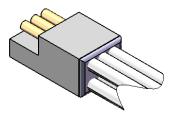


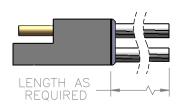




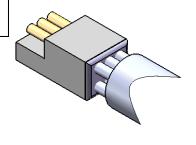
Connector Length (Dim "A")

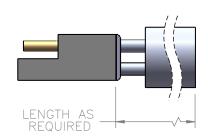
	Inches	[mm]
4 Contacts	= .075	= <u>1.91</u>
6 Contacts	= <u>.100</u>	= 2.54
8 Contacts	= <u>.125</u>	= 3.18
10 Contacts	= <u>.150</u>	= <u>3.81</u>
12 Contacts	= <u>.175</u>	= 4.45





DISCRETE LEADWIRE TYPE WD





CABLE TYPE WC

7260 COMMERCE CIRCLE EAST MINNEAPOLIS, MN 55432 (763) 572-0656 WWW.OMNETICS.COM



SERIES PZN POLARIZED NANO CONNECTOR CAGE CODE: 61873

DIMENSIONS IN INCHES ±.005 [mm] ±.13

Series PZN Nomenclature

Examples

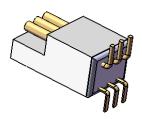
PZN-12-DD...Nano, 12 contacts, Straight Tails

PZN-12-WD-36.0-C-30Nano, 12 contacts, 36.0" Color Coded 30 AWG Wire					

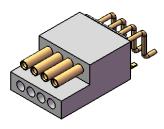
(Each option separated by a hyphen)

<u>Se rie s</u> PZN	# Contacts 04 up to 12 Note: Contact #s less than 10, use "0" first ex: 06, 09, etc	Termination PCB Tail Terminations DD = Straight AA = SMT Horizontal VV = SMT Vertical Wire Terminations WC = Cable* WD = Discrete Leadwire XX = Other*	Wire Length (Skip if not wire term) Length in Inches including tenths example: 12.0 X.0 = Mixed Lengths	Common Options (List in this order) C = Color Coded Wire COLOR CODED: 1 & 11=Black 2 & 12=Brown 3= Red 4=Orange 5=Yellow 6=Green 7=Blue	Wire Gauge PTFE-NEMA HP3 30=30 AWG 32=32 AWG 34=34 AWG SP=OTHER*
		* Consult Factory		8=Violet 9=Gray 10=White BK=All Black BL=All Blue WH=All White RoHS=RoHS Compliant HTE=High Temp Epoxy	

Examples



PZN-6-VV



PZN-8-AA