

OMNETICS

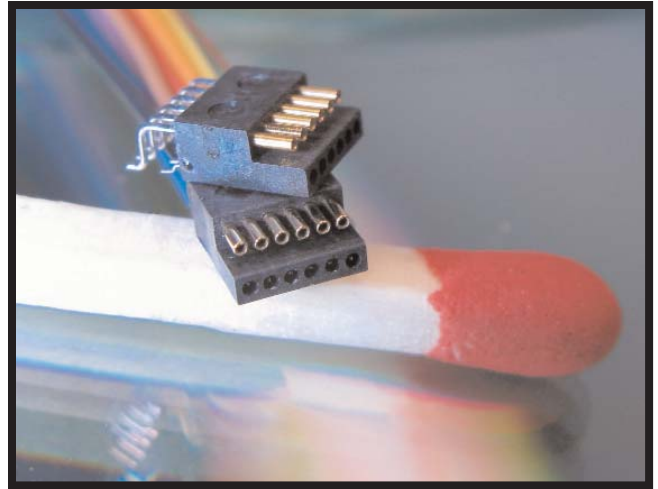
CONNECTOR CORPORATION
The World Leader in Nano Connection

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.

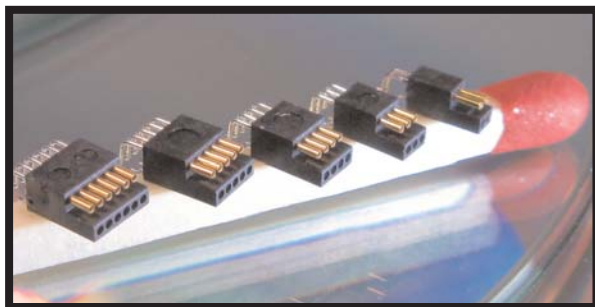
The .025" (.64 mm) spacing and mil quality, gold plated contact system makes this one of the smallest Hi-Rel connectors on the market today. The Polarized nano series is available in 4, 6, 8, 10 and 12 position sizes.

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



12 Position Polarized Nano Wired and SMT

Material Specs	Electrical Specs
<p>Insulator: Thermoplastic Polyester, MIL-M-24519, Type GLCP-30F</p> <p>Sockets: Copper Alloy per MIL-DTL-83513</p> <p>Pins: Beryllium Copper per ASTM B194, Alloy C17200</p> <p>Contact Finish: Gold plate per ASTM B488, Type II (Hard Gold), Code C, Class 1.27 (.000050) Thickness = .00005" (1.27 μm)</p>	<p>Current: 1 amp per contact</p> <p>Dielectric Withstanding Voltage: 350 VAC RMS</p> <p>Insulation Resistance: 5000 Meg ohms min @ 100 VDC</p> <p>Contact Resistance: 25 milliohms (25 mv) max @ 1.0 amp</p> <p>Temperature: -55°C to 125°C (200°C with HTE)</p> <p>Vibration: 20 G's, no discontinuity greater than 10 nanoseconds</p> <p>Shock: 100 G's, no discontinuity greater than 10 nanoseconds</p>



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

Omnetics Connector Corporation

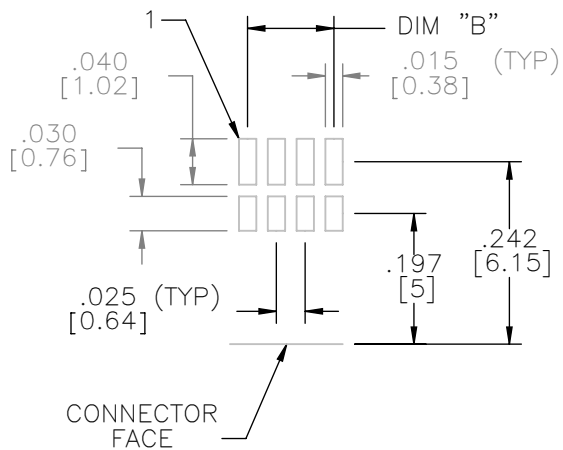
7260 Commerce Circle East

Minneapolis, MN 55432

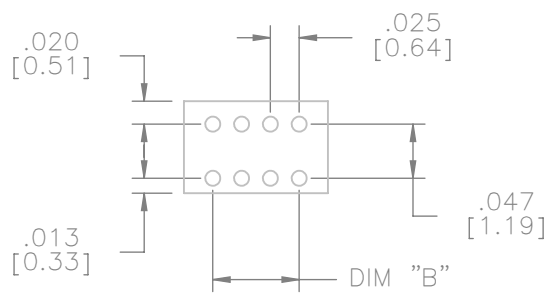
Phone: 763-572-0656

Fax: 763-572-3925

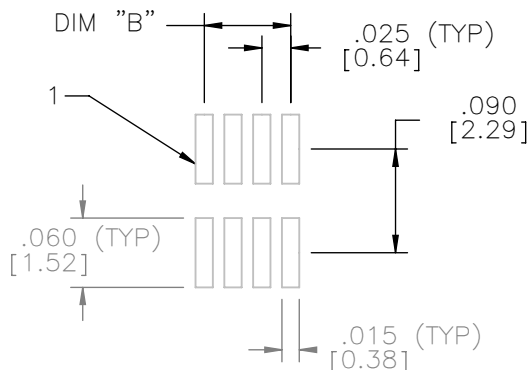
Web Site: www.omnetics.com



HORIZONTAL SURFACE MOUNT TYPE AA



STRAIGHT THROUGH HOLE TYPE DD



VERTICAL MOUNT TYPE VV

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 Dimension (Dim "B")		
	Inches	[mm]
4 Contacts	= <u>.025</u>	= <u>0.64</u>
6 Contacts	= <u>.050</u>	= <u>1.27</u>
8 Contacts	= <u>.075</u>	= <u>1.91</u>
10 Contacts	= <u>.100</u>	= <u>2.54</u>
12 Contacts	= <u>.125</u>	= <u>3.18</u>

7260 COMMERCE CIRCLE EAST
MINNEAPOLIS, MN 55432
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WWW.OMNETICS.COM

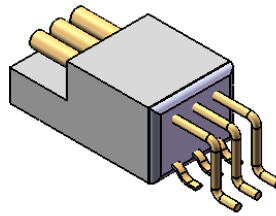
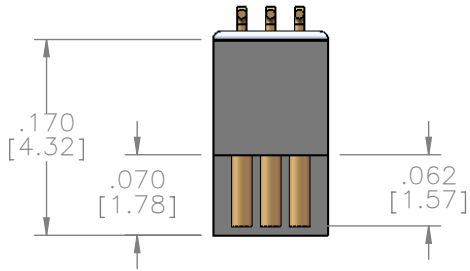
OMNETICS
CONNECTOR CORPORATION

SERIES PZN
POLARIZED NANO
CONNECTOR

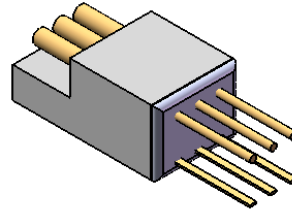
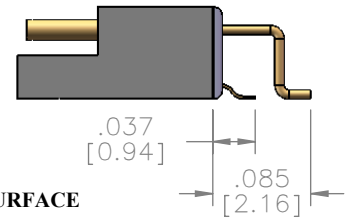
CAGE CODE:
61873

DIMENSIONS IN
INCHES ±.005
[mm] ±.13

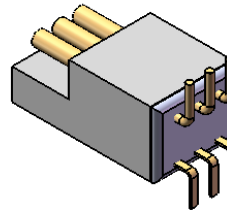
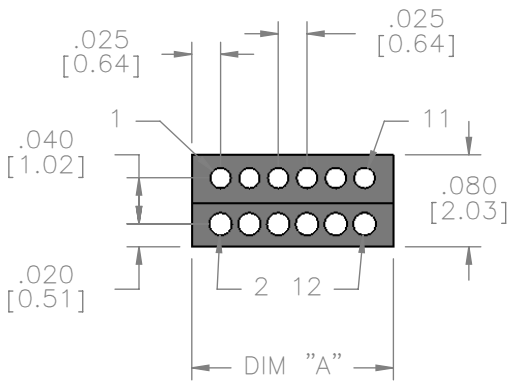
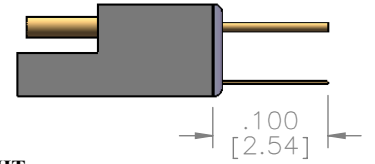
CAT-PZN-0935



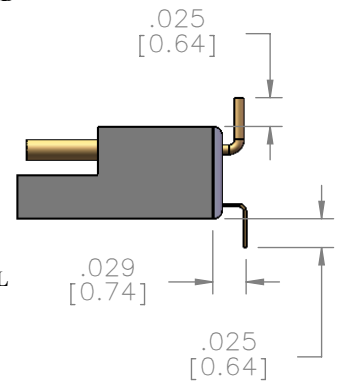
HORIZONTAL SURFACE MOUNT TYPE AA



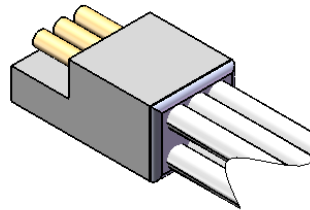
STRAIGHT THROUGH HOLE TYPE DD



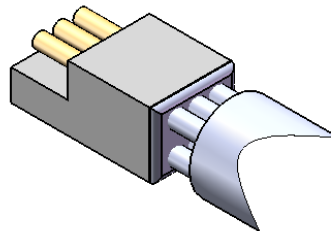
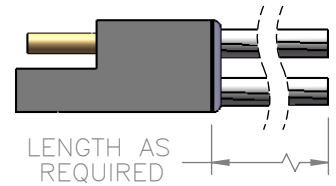
VERTICAL MOUNT TYPE VV



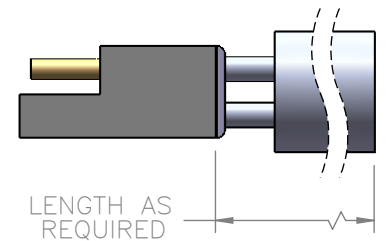
Connector Length (Dim "A")		
	Inches	[mm]
4 Contacts	= .075	= 1.91
6 Contacts	= .100	= 2.54
8 Contacts	= .125	= 3.18
10 Contacts	= .150	= 3.81
12 Contacts	= .175	= 4.45



DISCRETE LEADWIRE TYPE WD



CABLE TYPE WC



Series PZN Nomenclature

Examples

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

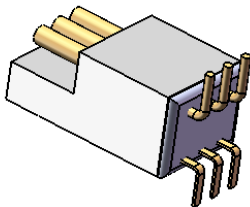
PZN-12-WD-36.0-C-30...Nano, 12 contacts, 36.0" Color Coded 30 AWG Wire

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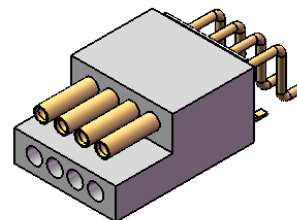
(Each option separated by a hyphen)

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

Examples



PZN-6-VV



PZN-8-AA