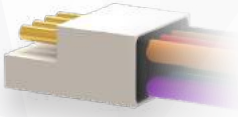
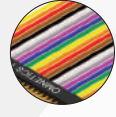

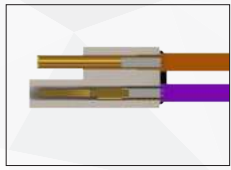


# Polarized Nano

## PRE-WIRED/CABLE (TYPE WD/WC) ORDERING GUIDE

SERIES	# OF CONTACTS	TERMINATION TYPE	WIRE LENGTH	COLOR CODED	COMMON OPTIONS
<b>PZN</b> POLARIZED NANO CONNECTOR 	<b>04 - 24</b> (EVEN NUMBERS ONLY)	<b>WD</b> DISCRETE WIRES	<b>18.00</b> =18.00" STANDARD	<b>C</b> 10 REPEATING COLORS PER MIL-STD 681 	<b>HT</b> HIGH TEMP
		<b>TW</b> TWISTED WIRES	<b>XX.XX</b> CUSTOM LENGTH i.e. 23.40 =23.40"		<b>RoHS</b> RoHS COMPLIANT 
		<b>WC</b> CABLE	<b>Y</b> ALL OTHER WIRE COLORS	<b>CS</b> CUSTOMER SUPPLIED MATERIAL	
		<b>WX</b> MULTIPLE WIRE TYPES 	WIRE GAUGE 30, 32 (STANDARD), 34		

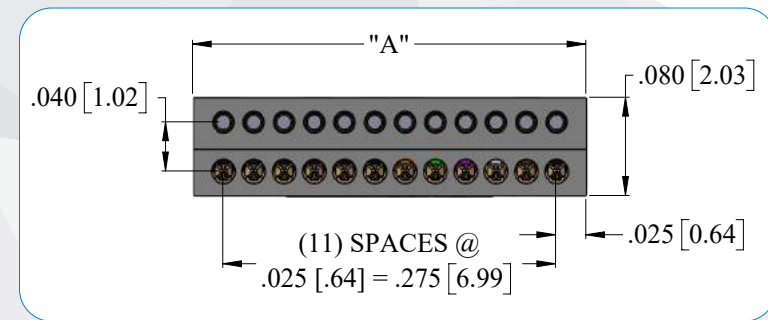
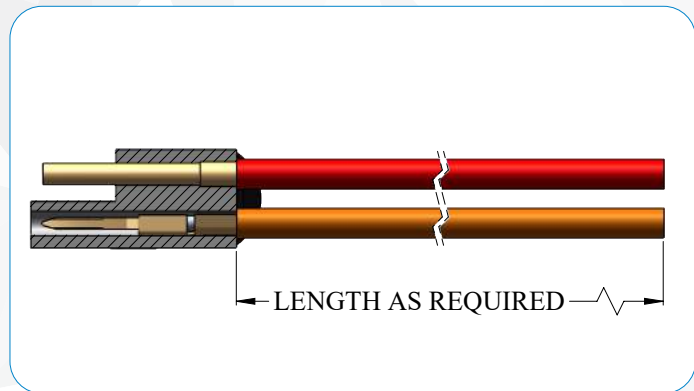
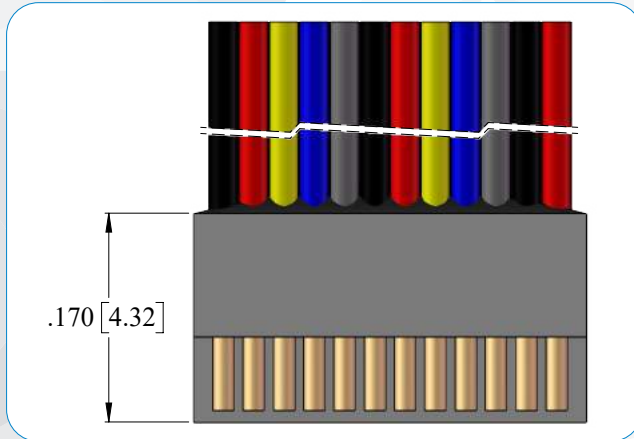
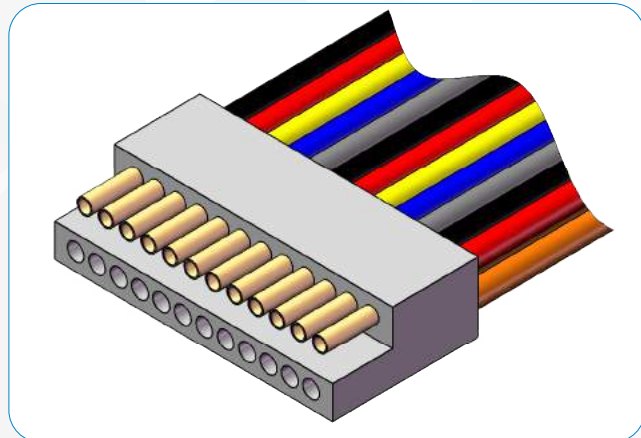
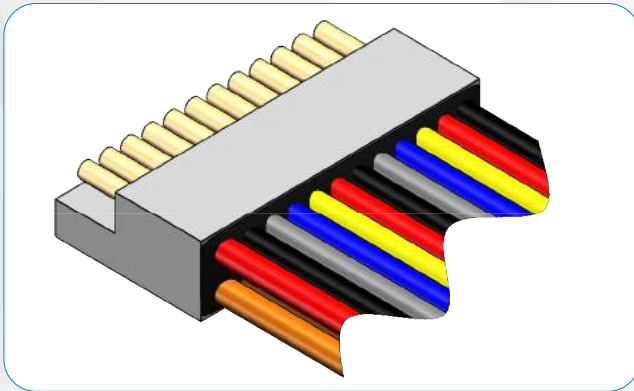
EXAMPLES:



PZN-08-WD-18.00-C

# Polarized Nano

## PZN-WD/WC LAYOUT



### DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	_____
Multiply the number of contact cavities minus 1 by .025"	_____
Add fixed end length constant	.050"
Total Length (Dimension A)	_____

Notes: Maximum length .325" [8.26].  
Maximum number of contact cavities is 24

### DIMENSIONS FOR "B"

To determine pad pattern layout length "B":

Multiply the number of contacts in one row minus 1 by .025"	_____
Total Length (Dimension B)	_____

Notes: Maximum length .275" [6.99].

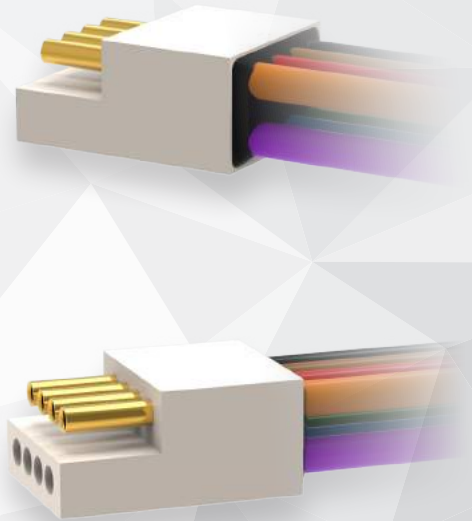
Dimensions in [ ] are in Millimeters unless otherwise noted and are for reference only.

# Polarized Nano

## PRE-WIRED/CABLE (TYPE WD/WC)

The Polarized Nano (PZN) connectors are designed to hold one row of pins and one row of sockets; this configuration polarizes the connector without the extra space needed for guide pins. The pre-wired PZN connector assemblies are crimped using proprietary semi-automated crimping systems. Due to their small size and precision required to make these quality crimps, hand crimping is not an option. Pre-crimped wires and contacts are potted in place further protecting the integrity of the crimp joint. Commercial Off The Shelf (COTS) versions are also available with 18" of color coded 30 AWG Teflon wire for quick turnaround.

The PZN connectors are available in standard sizes ranging from 4 through 24 positions and accept wires 30 AWG or smaller stranded wire.



### ELECTRO-MECHANICAL SPECS

Durability:	200 Cycles
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 min @ 100 VDC
Shock:	100 G's discontinuity < 10 nanoseconds
Vibration:	20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

### MATERIAL SPECIFICATIONS

Insulator:	Polyphenylene Sulfide per MIL-M-24519
Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Epoxy