

**Lighter, smaller, more durable connectors for any application**

# Nano 360<sup>®</sup> Circular Connectors

At .025" pitch, Omnetics Nano 360<sup>®</sup> Circular connectors are the smallest mil-aero circular connectors on the market. Compared to larger circular configurations, we have reduced the size and weight by as much as 3x compared to standard .050" pitch circular connectors. Omnetics Nano 360<sup>®</sup> Circular connectors offer a number of standard designs and locking methods with pin counts ranging from 2 to 39 positions. The unique polarized-insulator allow for both plastic and metal shell connector design styles. Threaded couplings, metal and plastic breakaway shells and twist-lock housings are ready for both inline as well as panel mount interconnections. Thirty-two gauge standard Teflon insulated copper wire is also offered from stock that handles nearly 1 ampere of current per contact.

## Product Specifications

(excludes Nano IP68 Circular Series)

Insulator Sizes:	6 through 39 contacts
Current Carrying:	1 AMP per contact
Dielectric Withstanding:	250 VAC RMS at sea level
Insulation Resistance:	5000 Megohms min at 100 VDC
Vibration:	20 g's with no discontinuities > 10 nanoseconds
Shock:	100 g's with no discontinuities > 10 nanoseconds
Operating Temperature:	-55°C - +200°C
Durability:	Exceeds 2000 mating cycles

## Industries

- Space
- Aviation
- Medical
- Military
- Petroleum
- Robotics
- Unmanned Systems
- Sensors
- Neuroscience



### Durability

The Nano 360<sup>®</sup> Circular connectors have the ability to withstand high shock and vibration while maintaining their electrical integrity. The flex pins are capable of over 2,000 mating cycles.



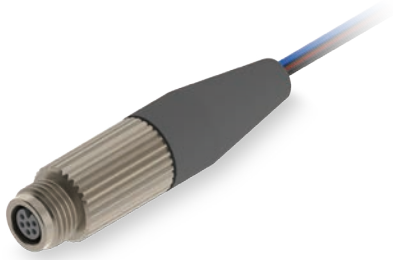
### Flexibility

Omnetics' Nano 360<sup>®</sup> Circular connectors are available with a variety of metal housings and plating options which giving them a reliable environmental seal for harsh environments.



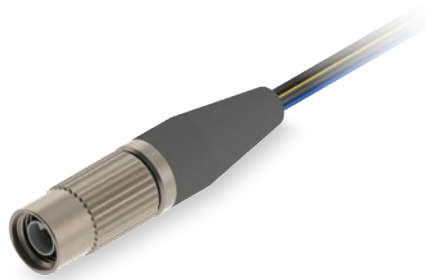


# Nano 360® Circular Connectors



**Nano Metal Threaded Pin  
MNCP Series**

- ☑ IP68
- ☑ RoHS
- ☑ 200 °C Rated
- ☑ COTS
- ☑ Panel Mount
- ☑ Shielding / Backshell



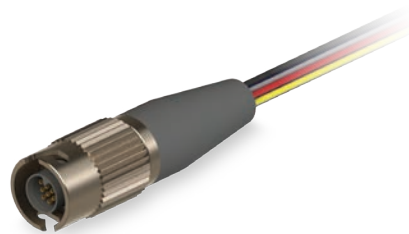
**Nano Metal Threaded Socket  
MNCS Series**

- ☑ IP68
- ☑ RoHS
- ☑ 200 °C Rated
- ☑ COTS
- ☑ Shielding / Backshell



**Nano Metal Twist-Lock Pin  
TNCP Series**

- ☑ IP68
- ☑ RoHS
- ☑ 200 °C Rated
- ☑ COTS
- ☑ Panel Mount
- ☑ Shielding / Backshell



**Nano Metal Twist-Lock Socket  
TNCS Series**

- ☑ IP68
- ☑ RoHS
- ☑ 200 °C Rated
- ☑ COTS
- ☑ Shielding / Backshell



**Nano Plastic Pin/Socket  
NCP/NCS Series**

- ☑ RoHS
- ☑ 200 °C Rated
- ☑ COTS
- ☑ Plastic Clip



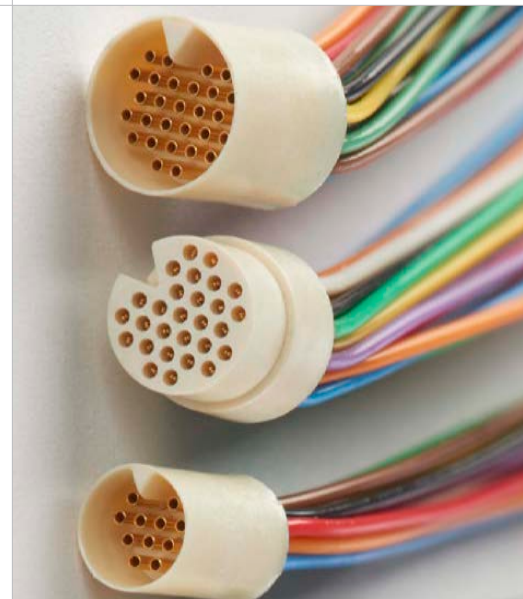
**Nano Metal Keyed Break Away Pin  
KBNP Series**

- ☑ IP68
- ☑ RoHS
- ☑ 200 °C Rated
- ☑ COTS
- ☑ Panel Mount
- ☑ Shielding / Backshell



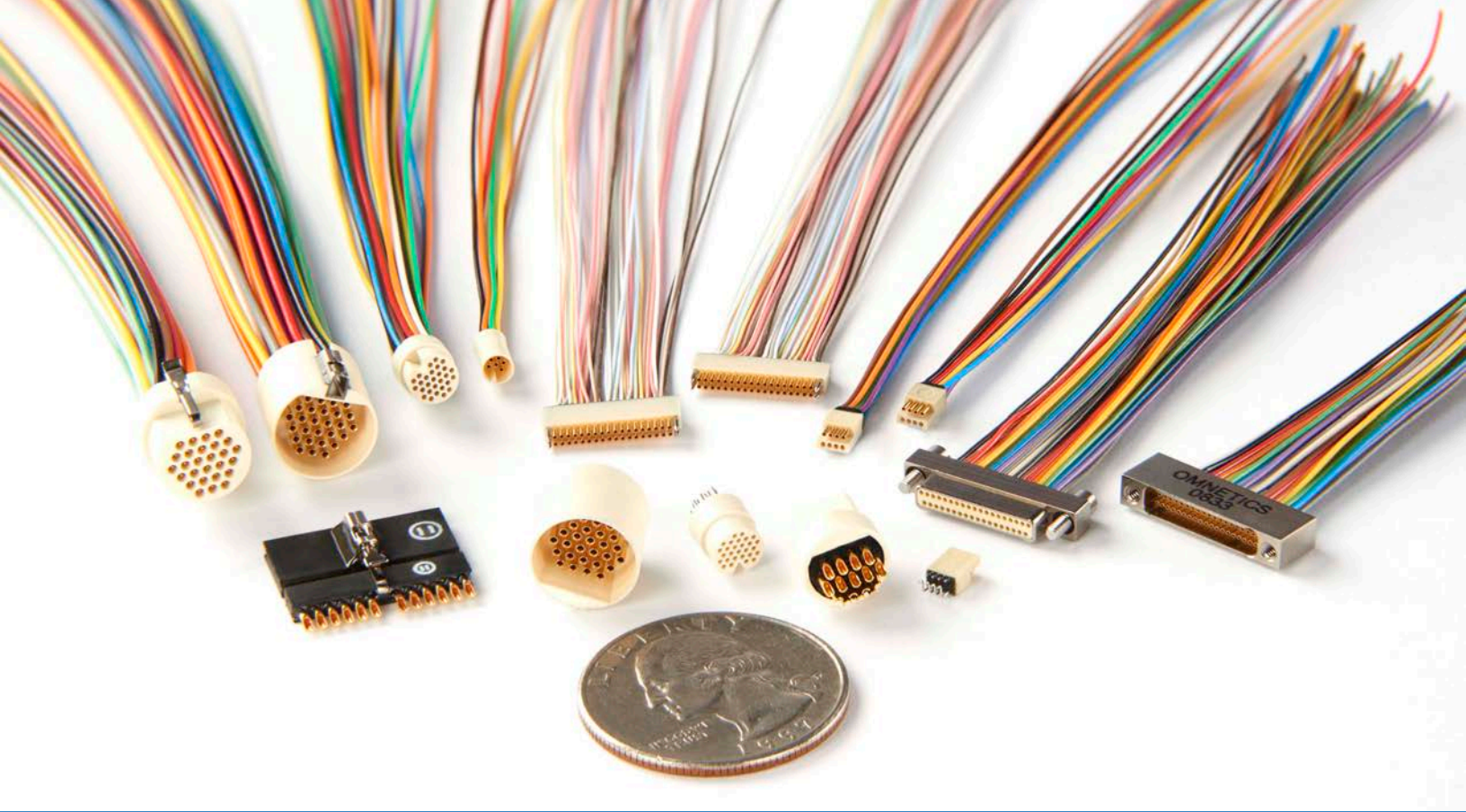
**Nano Metal Keyed Break Away Socket  
KBNS Series**

- ☑ IP68
- ☑ RoHS
- ☑ 200 °C Rated
- ☑ COTS
- ☑ Panel Mount
- ☑ Shielding / Backshell









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# OMNETICS

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