



Phoenix Waterproof Connectors

-Sealed against moisture and contaminants in unmated and mated conditions

Product Description



Environmentally sealed and weather-resistant, Phoenix's Waterproof Connectors are designed to withstand harsh atmospheric conditions and provide similar benefits as hermetic designs. Connectors feature: standard mounting and configurations, resistance to vibration and shock, and superior mechanical and electrical performance.

Environmental characteristics are achieved with the addition of sealing gaskets at critical ingress points. Connectors' designs feature sealing whether unmated or mated. Connectors are protected from water, sand, dust, salt, and other solid and chemical impurities.

Features

- Protection categories to EN 60 529/IEC 529.
- Standard products meet the requirements of IP 67.
- Available in custom solutions including: adapters and cable assemblies.
- Low frequency to high frequency bands available.
- Special configurations done on request.

Applications

- Aerospace satellites.
- Medical.
- Military.
- Petrochemical.
- Shipboard and deep-sea immersion.
- Telecommunications.

Connector Types

- SMA 20 Series (Stainless Steel).
- BNC 40 Series (Brass).
- TNC 42 Series (Stainless Steel).
- N Type 53 Series (Stainless Steel).
- SMA 22 Series (Brass).
- TNC 41 Series (Brass).
- N Type 50 Series (Brass).

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The Phoenix Company of Chicago and its affiliates have manufacturing facilities in the United States, Mexico, and China.

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Materials: For 22, 40, 41, And 50 Series

Plug And Receptacle Bodies- Brass Per ASTM-B-16.

Outer Contacts- Beryllium Copper Per ASTM-B-196 For Type "N" And TNC/BNC Connector Types.

Insulators- Teflon (PTFE) Per ASTM-D-1710.

Male Contacts- Brass Per ASTM-B-16.

Male Contacts- Beryllium Copper Per ASTM-B-196 For SMA Connector Types.

Female Contacts- Beryllium Copper Per ASTM-B-196.

Retaining Rings- Beryllium Copper Per ASTM-B-196.

Ferrules And Caps- Brass Per ASTM-B-16.

Gaskets- Silicone Rubber Per ZZ-R-765.

Materials: For 20, 42, And 53 Series

Same As Above Except

Bodies- Stainless Steel Per QQ-S-763.

Finishes

- Gold Per Mil-G-45204.
- Nickel Per QQ-N-290.
- Passivation Per ASTM-A-380.
- Specials Done On Request.

Electrical

	MAXIMUM FREQUENCY	VOLTAGE RATING	CENTER CONTACT RESISTANCE	INSERTION LOSS	DURABILITY
SMA (22)	18.5 GHz	500 RMS	2.0 Milliohms	$0.03 \sqrt{F^*(GHz)}$	100 Cycles
SMA (20)	18.5 GHz	500 RMS	2.0 Milliohms	$0.03 \sqrt{F^*(GHz)}$	500 Cycles
BNC	4 GHz	500 RMS	1.5 Milliohms	0.18 dB max @ 3.00 GHz	500 Cycles
TNC	11 GHz	500 RMS	1.5 Milliohms	0.18 dB max @ 3.00 GHz	500 Cycles
TYPE "N"	11 GHz	500 RMS	1.5 Milliohms	0.18 dB max @ 3.00 GHz	500 Cycles

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