

18 GHz N, TNC, SMA

Connectors for IW Microwave Cable



Kings products, like the 18 GHz N, TNC, and SMA Connectors, are now sold under the Kings-Win™ brand from Winchester Interconnect™

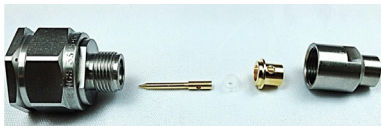
Product Description

Winchester Interconnect developed a family of Kings-Win precision stainless steel N, TNC, and SMA connectors designed for IW Microwave's 1801, 2301, and 2801 series microwave cables.

These cables are all double shielded and feature IW Microwave's proprietary method to apply even and concentric layers of PTFE lamination onto the center conductor, resulting in a cable that is lighter in weight, smaller in diameter, and has low attenuation.

Our 339 Series N, 338 Series TNC, and 087 Series SMA connectors were designed for these cables and perform to 18 GHz with a low VSWR of <math><1.17:1</math>.

All connectors are easy to terminate and feature a solder center contact, solder sleeve to terminate the silver-plated copper foil and braid, and threaded front and rear bodies that are tightened together using a standard wrench.



- Our connector designs contain up to 50% fewer components and are faster to terminate compared to other connector options.



- Coupling nuts are available with and without lock wire holes for added reliability in high-vibration applications.



- The solder / clamp termination method ensures optimal electrical performance, achieving an overall cable assembly VSWR of <math><1.3:1</math>.

 **Winchester**
Interconnect.

We Energize Innovation.

Specifications

Electrical

Impedance

50 Ohms

Frequency Range

DC to 18 GHz

Voltage Rating

500 Volts RMS

VSWR

1.17 Max DC to 18 GHz

Insertion Loss

0.06 x \sqrt{f} (GHz) dB Max

Mechanical

Durability

500 Cycles Min

Material

Body

Stainless Steel Solder

Sleeve

Brass

Center Contacts

Brass (Male)

Beryllium Copper
(Female)

Insulators

PTFE

Gaskets & Seals

Silicone Rubber
(Viton® also available
for Space apps)

Other Components

Brass or Stainless
Steel

Finishes

Body

Passivated

Center Contacts

Gold

Environmental

Temperature Range

-65°C to +165°C

Moisture Resistance

MIL-STD-202,
Method 106

Corrosion

MIL-STD-202,
Method 101,
Test Condition B

Vibration

MIL-STD-202,
Method 204,
Test Condition I

Part Numbers

Connector Plug Type	IW Cable (Standard)	Standard Coupling Nut	Lock Wire Coupling Nut	IW Cable (Ruggedized)	Standard Coupling Nut	Lock Wire Coupling Nut
SMA	1801	0875-600-W1801P	0875-600-W1802P	1803	0875-600-W1901P	0875-600-W1902P
SMA	2301	0875-600-W2301P	0875-600-W2302P	2303	0875-600-W2401P	0875-600-W2402P
SMA	2801	0875-600-NG401P	0875-600-NG402P	2803	0875-600-W8301P	0875-600-W8302P
TNC	1801	3385-600-W1801P	3385-600-W1802P	1803	3385-600-W1901P	3385-600-W1902P
TNC	2301	3385-600-W2301P	3385-600-W2302P	2303	3385-600-W2401P	3385-600-W2402P
TNC	2801	3385-600-NG401P	3385-600-NG402P	2803	3385-600-W8301P	3385-600-W8302P
N	1801	3395-600-W1801P	3395-600-W1802P	1803	3395-600-W1901P	3395-600-W1902P
N	2301	3395-600-W2301P	3395-600-W2302P	2303	3395-600-W2401P	3395-600-W2402P
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