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TNC & Type N Cable Plugs and Jacks



To learn more about the  line of connectors

web: arc.AmphenolRF.com email: arc@AmphenolRF.com


Amphenol® RF

Global RF Solutions
www.AmphenolRF.com

Markets

Transportation, Military, Mining and Construction, Public Safety, Wireless, Smart Energy and Industrial Control

Product Descriptions

Amphenol® RF's line of Rugged Connectors  are engineered for harsh conditions, without compromising their superior performance.

The line of connectors come in standard and reverse polarity. They are all sealed IP67 in unmated and mated conditions and are RoHS compliant.

Technical Specifications

Environmental		
	TNC	Type N
Temp. Range	- 65°C to + 165°C*	- 65°C to + 165°C*
Thermal Shock	MIL-STD-202, method 107, cond. B	MIL-STD-202, method 107, cond. B
Vibration	MIL-STD-202, method 204, cond. B	MIL-STD-202, method 204, cond. B
Shock	MIL-STD-202, method 213, cond. G	MIL-STD-202, method 213, cond. I
Sealing	IEC 529, IP67	IEC 529, IP67

* With Heat Shrink Wrap Tubing temperature range up to 85°C

Materials		
	TNC	Type N
Center Contact	Beryllium Copper or Brass	Male: Brass Female: Beryllium Copper
Body	Brass	Brass
Retainer Ring	Phosphor bronze or brass, nickel plated	Stainless Steel
Ferrule	Copper Alloy	Copper Alloy
Insulator	PTFE	PTFE

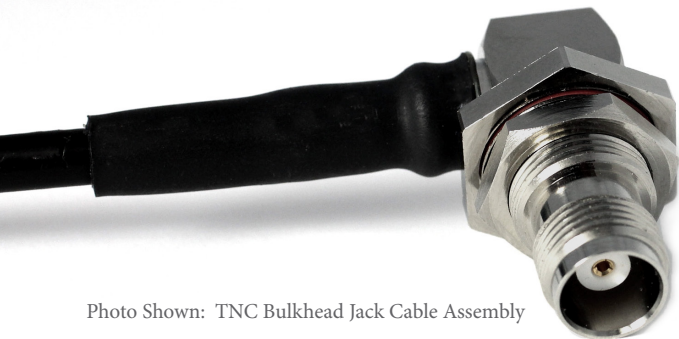


Photo Shown: TNC Bulkhead Jack Cable Assembly



Photos shown: Left: Type N Straight Plug (Male), Center: TNC Right Angle Bulkhead Jack (Female) to RP-TNC Right Angle Plug (Male), Right: TNC Right Angle Jack (Female) on cable assembly

Mechanical		
	TNC	Type N
Durability (matings)	500 cycles Min	500 cycles Min

Plating		
	TNC	Type N
Center Contact	Gold (4 Min) over High phosphorus electroless nickel (100 min)	Gold (4 Min) over High phosphorus electroless nickel (100 Min)
Body	Nickel (100 Min.) Over Copper Flash (20 Min) per MIL-C-14550	Nickel (100 Min.) Over Copper Flash (20 Min) per MIL-C-14550
Ferrule	Nickel (100 Min.) Over Copper Flash (20 Min) per MIL-C-14550	Nickel (100 Min.) Over Copper Flash (20 Min) per MIL-C-14550

Electrical		
	TNC	Type N
Impedance	50 ohm	50 ohm
Frequency Range	DC to 6GHz	DC to 6GHz
Performance Spec Standard Polarity		
STR: DC-3GHZ	1.2 Max	1.1 Max
STR: 3-6GHZ	1.3 Max	1.2 Max
R/A: DC-3GHZ	1.3 Max	1.15 Max
R/A: 3-6GHZ	1.3 Max	1.2 Max
Insulation Resistance	5,000 MΩ MIN.	5,000 MΩ MIN.
Contact Resistance	Center Contact: <=1.5mΩ, Outer Contact: <=0.2mΩ	Center Contact: <= 1 mΩ, Outer Contact: <= 0.2 mΩ
Dielectric Withstanding Voltage	1000 VRMS	1000 VRMS

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