

Overview

Amphenol RF offers a wide selection of waterproof IP-rated TNC connectors designed specifically for use in applications where systems may be compromised through exposure to the elements or external tampering. These products provide strong protection to secure against anything that may compromise system performance.

TNC connectors operate at 50 ohms and utilize the familiar threaded interface which ensures mating stability and reliable electrical performance. This interface is available in a variety of configurations including front-mounted bulkhead jacks which can be fastened on the inside of a panel or enclosure, a design element which adds an extra layer of security for sensitive systems.

Features and Benefits

- Waterproof IP67 rated
- Tamper resistant
- Threaded coupling mechanism
- Durable construction
- Available in a variety of configurations

Applications

- Antennas
- Industrial
- Wireless
- Military
- Broadband

Ordering Information

Connectors

Straight Plugs

Part Number	Description
122116-15	TNC Straight Plug for RG-316
031-6923	TNC Straight Plug for RG-58
122426-10	TNC Straight Plug for RG-59 (75 Ohm)
031-6499	TNC Straight Plug for LMR-200
031-6683	TNC Straight Plug for LMR-400



Right-Angle Plugs

Part Number	Description
031-6501	TNC Right-Angle Plug for LMR-200
031-6594	TNC Right-Angle Plug for LMR-240



Bulkhead Jacks, Rear Mount

Part Number	Description
122542	TNC Straight Bulkhead Jack, Rear Mount, for 1.13 mm
122529-10	TNC Straight Bulkhead Jack, Rear Mount, for 1.32 mm
122192-15	TNC Straight Bulkhead Jack, Rear Mount, for RG-316
122358-10	TNC Straight Bulkhead Jack, Rear Mount, for RG-316 DS
122370-11	TNC Straight Bulkhead Jack, Rear Mount, for RG-178
031-6922	TNC Straight Bulkhead Jack, Rear Mount, for RG-55
031-6732	TNC Straight Bulkhead Jack, Rear Mount, for RG-58
122401-10	TNC Straight Bulkhead Jack, Rear Mount, for RG-402
031-6288	TNC Straight Bulkhead Jack, Rear Mount, for RG-405
031-6507	TNC Straight Bulkhead Jack, Rear Mount, for LMR-200
031-6509	TNC Right-Angle Bulkhead Jack, Rear Mount, for LMR-200
031-6921	TNC Straight Bulkhead Jack, Rear Mount, for LMR-240
031-6600	TNC Straight Bulkhead Jack, Rear Mount, Solder Cup



Bulkhead Jacks, Front Mount

Part Number	Description
031-6907	TNC Straight Bulkhead Jack, Front Mount, for 1.13 mm
031-6212	TNC Straight Bulkhead Jack, Front Mount, for RG-316
122555	TNC Right-Angle Bulkhead Jack, Front Mount, for RG-316



Jack, Free-Hanging

Part Number	Description
031-6505	TNC Straight Jack, Free-Hanging for LMR-200



PCB Bulkhead Mount

Part Number	Description
031-6530	TNC Straight PCB Bulkhead Mount, End Launch Jack
031-6805	TNC Straight PCB Bulkhead Mount, End Launch Plug
031-6527	TNC Right-Angle PCB Bulkhead Mount Jack



Amphenol® RF

Technical Specifications

Electrical

Impedance		50 Ω
Frequency Range		DC - 11 GHz
Return Loss (VSWR)		1.3 (-18 dB) Max.
Dielectric Withstanding Voltage		1500 VRMS Max.
Insulation Resistance		5000 M Ω Min.
Contact Resistance	Center Contact	1.5 m Ω Max.
	Outer Contact	0.2 m Ω Max.

Mechanical

Coupling Style		Threaded
Mating Cycles		500 Min.

Environmental

Temperature Range		-65°C to +165°C
RoHS		Compliant with Exemption 6C

Materials

Body and Outer Contacts		Brass
Male Contact		Brass
Female Contact		Beryllium Copper
Crimp Ferrule		Copper
Insulator		PTFE
Gasket		Silicone

Note: Technical specifications are typical and may vary by specific part number. See component drawing.

Also Available

Cable Assemblies, IP67

Part Number	Description
095-850-220-XXX	TNC Straight Plug to TNC Straight Plug, LMR-200
095-850-221-XXX	TNC Straight Bulkhead Jack to TNC Straight Plug, LMR-200
095-850-222-XXX	TNC Straight Bulkhead Jack to TNC Right-Angle Plug, LMR-200
095-850-281-XXX	TNC Straight Front Mount Bulkhead Jack to AMC Right-Angle Plug, 1.13mm Micro-coax
095-850-284-XXX	TNC Straight Rear Mount Bulkhead Jack to AMC Right-Angle Plug, RG-178
095-850-286-XXX	TNC Straight Rear Mount Bulkhead Jack to AMC4 Right-Angle Plug, 1.13 mm Micro-coax
095-950-264-XXX	TNC Straight Front Mount Bulkhead Jack to AMC Right-Angle Plug, 1.13mm Micro-coax
336209-12-XXXX	TNC Straight Rear Mount Bulkhead Jack to AMC Right-Angle Plug, 1.13 mm Micro-coax

Bulkhead Mount Adapters, IP67

Part Number	Description
242178-10	SMA Jack to TNC Jack
031-6769	MCX Jack to TNC Jack
AD-TNCJTNCJ-1	TNC Jack to TNC Jack

Protective Cap, IP67

Part Number	Description
202101-12	TNC Protective Cap Plug Without Chain

Amphenol RF

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For more information visit www.amphenolrf.com
or call 800.627.7100