

Overview

Amphenol RF offers a wide selection of waterproof IP-rated RP-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.

These 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.

RP-TNC connectors can be used to differentiate cabled connections when used alongside standard TNCs on a panel. The male contact indicates a keying option which distinguishes them among multiple interfaces on a panel, making mismatching impossible.

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
031-6502	RP-TNC Straight Plug for LMR-200
031-7020	RP-TNC Straight Plug for LMR-240



Right-Angle Plugs

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



Bulkhead Jacks, Rear Mount

Part Number	Description
122542RP	RP-TNC Straight Bulkhead Jack, Rear Mount, for 1.13 mm
031-6110	RP-TNC Straight Bulkhead Jack, Rear Mount, for RG-316
122401RP-10	RP-TNC Straight Bulkhead Jack, Rear Mount, for RG-402
031-6508	RP-TNC Straight Bulkhead Jack, Rear Mount, for LMR-200
031-6510	RP-TNC Right-Angle Bulkhead Jack, Rear Mount, for LMR-200



Bulkhead Jacks, Front Mount

Part Number	Description
031-6900	RP-TNC Straight Bulkhead Jack, Front Mount, for 1.13 mm
031-6213	RP-TNC Straight Bulkhead Jack, Front Mount, for RG-316



Jack, Free-Hanging

Part Number	Description
031-6506	RP-TNC Straight Jack, Free-Hanging, for LMR-200



PCB Bulkhead Mount

Part Number	Description
031-6528	RP-TNC Right-Angle PCB Bulkhead Mount Jack



Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

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

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 MΩ Min.
Contact Resistance	Center Contact	1.5 mΩ Max.
	Outer Contact	0.2 mΩ 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		Beryllium Copper
Female Contact		Brass
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
336212-12-XXXX	RP-TNC Straight Bulkhead Jack to AMC Right-Angle Plug, 1.13 mm Micro-coax
095-850-263-XXX	RP-TNC Straight Front Mount Bulkhead Jack to AMC Right-Angle Plug, 1.13 mm Micro-coax
095-850-288-XXX	RP-TNC Straight Rear Mount Bulkhead to AMC Right-Angle Plug, 1.13 mm Micro-coax
095-850-282-XXX	RP-TNC Straight Front Mount Bulkhead to AMC4 Right-Angle Plug, 1.13 mm Micro-coax

Protective Cap, IP67

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

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