# Amphenol<sup>®</sup> RF

## **IP67 RP-TNC Connector Series**

Waterproof IP-Rated and Tamper Resistant Interface

## **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 mismating 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

Amphenol RF Four Old Newtown Road Danbury, CT 06810

## **Ordering Information**

### Connectors

### Straight Plugs

031-6502 RP-TI	NC Straight Plug for LMR-200	
031-7020 RP-TM	NC Straight Plug for LMR-240	

#### Right-Angle Plugs



## 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



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## **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 Excemption 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

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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