Amphenol® RF

IP67 TNC and RP-TNC Product Series
Waterproof IP-Rated and Tamper Resistant Interface

Overview

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

TNC and RP-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

Amphenol RF
Four Old Newtown Road
Danbury, CT 06810

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

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

Right-Angle Plugs

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

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
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
031-6907	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
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
031-6505	TNC Straight Jack, Free-Hanging for LMR-200
031-6506	RP-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
031-6528	RP-TNC Right-Angle PCB Bulkhead Mount Jack

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Technical Specifications

Electrical			TNC	RP-TNC
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		TNC	RP-TNC
Body and Outer Contacts		Brass	
Male Contact		Brass	Beryllium Copper
Female Contact		Beryllium Copper	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
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
095-950-264-XXX	TNC Straight Front Mount Bulkhead Jack to AMC Right-Angle Plug, 1.13mm Micro-coax
095-850-281-XXX	TNC Straight Front Mount Bulkhead Jack to AMC4 Right-Angle Plug, 1.13mm Micro-coax
336209-12-XXXX	TNC Straight Bulkhead Jack to AMC Right-Angle Plug, 1.13mm Micro-coax
336212-12-XXXX	RP-TNC Straight Bulkhead Jack to AMC Right-Angle Plug, 1.13mm Micro-coax
095-950-263-XXX	RP-TNC Straight Front Mount Bulkhead Jack to AMC Right-Angle Plug, 1.13 Cable Micro-coax
095-850-282-XXX	RP-TNC Straight Front Mount Bulkhead Jack to AMC4 Right-Angle Plug, 1.13 Cable 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/RP-TNC Protective Cap Plug Without Chain