



Overview

Amphenol RF offers a wide selection of waterproof IP-rated HD-BNC connectors designed specifically for use in applications where systems may be compromised through exposure to the elements. These connectors are engineered to provide strong protection against anything that would adversely affect system performance and are ideal for a variety of miniaturized applications.

IP67 HD-BNC connectors utilize the trusted bayonet-style positive locking mechanism for easy installation and secure mating. This interface is available in a number of both 50 and 75 ohm configurations including straight and right angle versions for both PCB and cable mount, and feature a closed entry interface.

HD-BNC connectors are four times smaller than traditional BNC connectors allowing for increased density while offering all the same features and benefits, cable prep and assembly methods.

Features and Benefits

- IP67 sealed waterproof solution
- Trusted bayonet style positive lock
- Closed entry interface
- 50 and 75 ohm designs
- Common cable options
- 75% smaller than traditional BNC

Applications

- High-Definition Cameras
- Military Handheld and Field Radio
- Broadcast Studio Patch Panels
- Remote Industrial Equipment

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

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

Ordering Information

IP67 HD-BNC Jacks, 50 Ohm

Part Number	Description
034-5019	Str Cr Jk RG-174/188/316 Times LMR-100A Bkhd
034-5020	Str Cr Jk RG-174/188/316 Times LMR-100A
034-5073	Str Cr Jk RG-178/196 Bulkhead Rear Mount

IP67 HD-BNC Plugs, 50 Ohm

Part Number	Description
034-5016	RA Cr Pl RG-174/188/316 Times LMR-100A
034-5017	Str Cr Pl RG-58/141 Times LMR-195
034-5021	RA Cr Pl RG-58/141 Times LMR-195
034-5039	RA Cr Pl RG-316DS/RD-316
034-5067	Str Cr Pl RG-174/188/316 Times LMR-100A
034-5074	Str Cr Pl RG-178/196

IP67 HD-BNC Jacks, 75 Ohm

Part Number	Description
034-1099	Str PCB Jk Through Hole Bulkhead Rear Mount
034-1123-12G	Str Cr Jk Belden 1855A/4855R/4855P Bkhd 12G

IP67 HD-BNC Plugs, 75 Ohm

Part Number	Description
034-1100	Str Cr Pl Belden 1855A
034-1122-12G	RA Cr Pl Belden 1855A/4855R/4855P 12G

Amphenol® RF

Technical Specifications

Electrical

Impedance		50Ω	75Ω
Frequency Range		DC - 6 GHz (18 GHz on 12G Products)	
Voltage Rating		170 Volts RMS Max Continuous	
Dielectric Withstanding Voltage		500 VRMS Max	
VSWR (Return Loss)	DC- 6 GHz	1.065 (-30 dB) Max	1.22 (-20 dB) Max
	DC - 18 GHz		1.43 (-15 dB) Max
Insulation Resistance		10000 MΩ Min	
Center Contact Resistance		5.0 mΩ Min	
Outer Contact Resistance		2.5 mΩ Min	
RF Leakage		60 dB Max @ 1 GHz	
Insertion Loss Loss		.1 √(f(GHz)) dB Max	

Environmental

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

Mechanical

Mating Cycles		500 Min	
Coupling Mechanism		Bayonet	

Materials

Body		Brass, Nickel Plating	
Contact		Beryllium Copper or Phosphor Bronze, Gold Plated	
Insulator		PTFE, Natural	

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

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