Amphenol[®] RF

IP67 Sealed HD-BNC Connector Series

High-Density Waterproof IP-Rated Interface



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 PI RG-174/188/316 Times LMR-100A |
| 034-5017 | Str Cr PI RG-58/141 Times LMR-195 |
| 034-5021 | RA Cr PI RG-58/141 Times LMR-195 |
| 034-5039 | RA Cr PI RG-316DS/RD-316 |
| 034-5067 | Str Cr PI RG-174/188/316 Times LMR-100A |
| 034-5074 | Str Cr PI 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 Continious | |
| 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 Excemption 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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