

Amphenol[®] RF

Global RF Solutions

HIGH PERFORMANCE
75 OHM BNC

FEATURES & BENEFITS

True 75 Ohm impedance end to end

One piece spring alloy body/outer contact

Strip/Crimp requirements consistent with all major industry providers

Bayonet coupling provides a positive lock and allows for quick and easy connect/disconnects

Made by the Inventors of the BNC

APPLICATIONS

Network Routing & Switching

Telco Central Office

DS3/DS4

Broadcast

Digital Video - HDTV

Custom Cable Assemblies

Instrumentation

Mil/Aero

Medical Equipment

Satellite Headends



High Performance 75 Ohm Connectors

High Performance 75Ω BNC Connectors

Amphenol RF has worked hard to develop our high performance 75 Ohm BNC product line and will continue to do so. Amphenol engineer Carl Concellman invented the BNC more the 60 years ago, and our engineers are still working to produce a variety of high quality RF solutions perfect for our customers' needs.

We offer a full line of 75 Ohm BNC connectors designed to meet the need for higher performance, impedance-matched cable interconnections. These connectors can be used in a variety of applications where True 75 Ohm performance is needed to ensure low signal distortion.

Our connectors are designed for the most popular 75 Ohm cables used in Broadcast, Telecommunications and various other RF applications, and feature crimp-crimp cable affixment compatible with Trompeter tooling, requiring no new training for quick and reliable installation.

Amphenol RF offers our True 75 Ohm BNC connectors in a variety of configurations: Straight, 45 degree and 90 degree plugs; as well as bulkhead, PCB and receptacle jacks.

If your applications requires a higher-density solution, contact us for information on our Mini-BNC product line.

Specifications

Electrical

Impedance	75 Ω, nominal
Frequency Range	DC - 4 GHz (useable to 6 GHz)
VSWR	< 1.10 (DC to 2.0 GHz) < 1.16 (DC to 3.0 GHz)
RF-leakage	55 dB minimum @ 3 GHz
Voltage Rating (at sea level)	500 Vrms (depending on cable)
Contact Resistance	center contact: ≤ 1.5 mΩ outer contact: ≤ 0.2 mΩ braid to body: ≤ 0.1 mΩ
Insulation resistance	5,000 MΩ minimum
Insertion loss maximum	0.2 dB max. @ 3 GHz
Dielectric withstanding voltage	1,500 Vrms (at sea level)

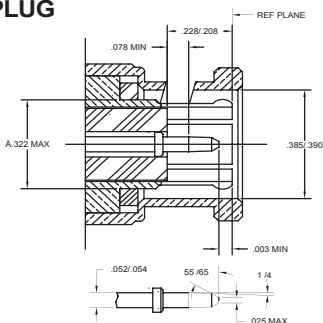
Material

Inner Body	Phosphor bronze
Crimp Ferrule	Copper alloy
Contact Plating	Gold
Insulator	TFE, copolymer of styrene, glass-TFE (hermetically sealed)

Environmental

Temperature Range	-40°C to + 85°C
Moisture Resistance	0% to 95%; MIL-STD-202 Method 106
Corrosion (Salt Spray)	MIL-STD-202 Method 101, Test Condition B
Flammability	UL 94-VO rated (center conductor insulator)
Vibration	MIL-STD-202 Method 201, Condition B
Solvent Resistance	MIL-STD-202 Method 215
Finish	Tarnish-resistant electroless nickel plating

PLUG



JACK

