## Amphenol<sup>®</sup> RF Global RF Solutions

### **FEATURES & BENEFITS**

Smaller than the Telco standard BNC allowing 40% more interconnects in the same area

Crimp/Crimp design compatible with all major manufacturer's tooling

True 75 Ohm impedance end to end

Drop-in replacement for most high-density SMB/SMZ applications

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

Qualified by most major OEMs

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



# **Mini-BNC Connectors**

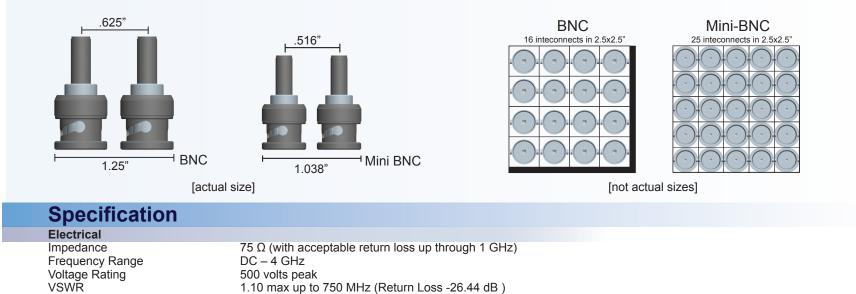
#### **Mini-BNC Connectors**

Amphenol RF introduces the new generation of quality BNC connectors for higher connector densities while preserving the positive characteristics of the Amphenol full-size BNC's for  $75\Omega$  systems. This allows 40% more interconnects in the same area.

The Mini-BNC series provides the same positive locking bayonet system found on the BNC. These connectors were designed to be field installed or repaired. Also, the Mini-BNC is designed to be a drop-in replacement used in Telco DS3/DS4 applications and is compatible with the present field installer tooling and strip dimensions.

DS3 and DS4 lines in Telco Central Offices are 75Ω and the Mini-BNC is as well. Further, this characteristic is tightly designed and manufactured to stay at this impedance over the frequencies of interest and beyond. This allows RF "head room" and presents a matched impedance condition to the electromagnetic field that is so important to return loss performance.

Because the mated condition is so important to flawless signal processing over long periods of time, the bayonet coupling can be quickly inspected to determine if the plug is fully engaged to the jack. This is unique to the BNC and Mini-BNC product since threaded parts do not have a positive stop representing full engagement.



1.16 max up to 1 GHz (Return Loss -22.61 dB)

0.1 dB maximum up to 1 GHz per MIL-C-39012

> 1,000 MΩ @ 500 volts per MIL-STD-1344, method 3003

MIL-STD-1344, method 3005

Bayonet positive locking

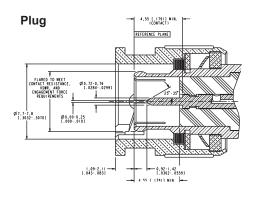
Insulation Resistance
Insertion Loss

Mechanical Mating

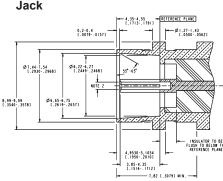
Connector Durability500 cyclesEngagement/Withdrawal Force1.5 lbs min, 5 lbs. max/12 oz. minimum

#### Environmental

Temperature Range -40°C to + 85°C



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Rev. C

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