

Real 75 Ohm BNC connectors for HDTV Broadcast Applications

Two part design for rapid board swap



Features

- Real 75 Ohm BNC Connector
- Designed for HD SDV applications
- Two part construction for rapid board swap
- PCB or front and rear bulkhead mounting
- Circlip or threaded versions
- RoHS Compliant

General Description

Two piece BNC female bulkhead, Real 75 ohm connectors, available in the following parts: -

Inner for 1.6 mm PCBs.	XBT-1058-NGAY	Outer for Circlip Bulkhead Mount	71X-0037-33
Inner for 2.4 mm PCBs	XBT-1059-NGAY	Outer for Threaded Rear Bulkhead Mount	71X-0038-33
Inner for 3.2 mm PCBs	XBT-1060-NGAY	Outer for Threaded Front Bulkhead Mount	71X-0039-33
Inner for top entry	XBT-1061-NGAY	Outer for PCB Mount	71X-0040-33
12 mm Circlip	71X-0036-00	2 part BNC outer with screw fastening	71X-0044-33

Applications

This two part 75 ohm BNC female connector range is specifically designed for the broadcast industry. It allows daughter boards in switching and routing equipment to be swapped out without the necessity of removing attached patch cables; this greatly reduces downtime. The range includes: - PCB mounting; Rear and Front mounting bulkhead versions, secured by threaded nuts; and also a circlip bulkhead version. The PCB mounting "inner" is edge mounting to ensure Real 75 ohm performance.

Specification	
Electrical	
Impedance	75 Ohm
Frequency Range	0 – 3.0 GHz
Working Voltage	500 V _{rms}
Dielectric Withstanding Voltage	1500 V _{rms}
Reflection Factor (V _{SWR})	1.08 ^(Max) DC-1.5GHz 1.16 ^(Max) 1.5GHz-3.0GHz
Contact Resistance	Centre contact 1.5 m ohm Outer contact 1.0 m ohm
Insulation Resistance	> 5000 Meg Ohm
*Materials	
Centre Pin	Phosphor Bronze / 10µ " Au
Metal Parts	Brass / Nickel
Insulators	Teflon®



* Other materials such as Gold Plating are available to customer requirement.

High definition broadcast applications - this Real 75 ohm BNC connector range, incorporates an innovative PCB edge mounting style. This provides a straight signal path along the connector, through the point of interface and onto the PCB track with minimal loss of transmission characteristics.

For more details contact our applications engineers on.

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