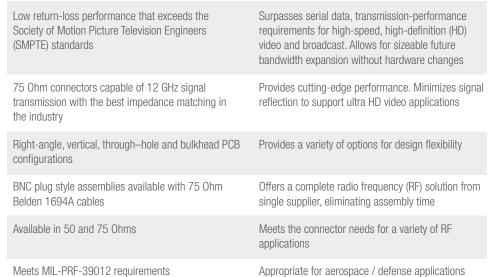
BNC RF Connectors and Assemblies

molex

BNC Radio Frequency (RF) Connectors and Assemblies transmit signals up to 12 GHz and exceed performance requirements of serial-data transmission for high-speed, high-definition TV (HDTV), HD video and broadcast applications

Features and Benefits





BNC RF Connectors



BNC RF 75 Ohm 12 GHz Connector

Applications

Consumer

High-Speed, High Definition TV(HDTV) HD Video and Broadcast Applications

Professional Cameras

Servers

Recorders

Monitors

Switchers

Controllers

Aerospace / Defense

Networking / Telecommunications



Broadcast Control Panel



Professional Camera



Monitor

BNC RF Connectors and Assemblies



Specifications

REFERENCE INFORMATION

Packaging: Tray or Bag

Mates With: 73171-6690 BNC Plug STR Use With: 75 Ohm Belden 1694A cables

Designed In: Millimeters

RoHS: Yes

MECHANICAL

Coupling Nut Retention Force (Axial): 444.82N

Force to Engage/Disengage:
Engagement Force (Typical)
Axial – 13.345N
Radial – 11.12N
Disengagement Force

Axial – 13.345N

Radial - 11.12N

ELECTRICAL

Nominal Impedance: 50 and 75 Ohms

Frequency Rating:

50 Ohms: DC to 10 GHz (max.) DC to 4 GHz (Optimum) DC to 2 GHz (Commercial)

75 Ohms: 12 GHz

DC to 4 GHz (max.)
DC to 2 GHz (Optimum)
DC to 2 GHz (Commercial)

Insertion Loss (max.): 12 GHz – 0.5 dB Return Loss (max.): 0 to 6 GHz – 30 dB

6 to 8 GHz - 25dB 8 to 12 GHz - 20 dB

Voltage (max.): 1000V - 50 and 75 Ohms

12 GHz Design

Center Contact Resistance: 1.5 Milliohms Outer Contact Resistance: 1.0 Milliohms Dielectric Withstanding Voltage: 1,500 Vrm Insulation Resistance: 5,000 Megohms

PHYSICAL

50 Ohms

Body: Brass or Zinc Alloy

Plating: Nickel

Center Contact: Phosphor Bronze

Plating: Gold Insulator: Teflon 75 Ohms 3 GHz

> Body: Zinc Alloy or Brass Plating: Nickel or Gold

Center Contact: Beryllium Copper, Phosphor

Bronze or Brass

Plating: Gold Insulator: Teflon 75 Ohms 12 GHz Body: Brass Plating: Tin

Contact: Beryillium Copper or Brass

Plating: Gold Insulator: Teflon

Operating Temperature: -65 to +165°C -65 to +95°C (Commercial)

Ordering Information

BNC RF Jacks, 75 Ohms, 12 GHz

Series No.	Description	Impedance (Ohms)	Frequency	Body	Plating
<u>73171-6610</u>	Right-Angle Jack w/ Jam Nut and Washer		12 GHz	Brass	Tin
73171-6611	Right-Angle Jack w/ Low-Profile Jam Nut and Washer	75			
73171-6612	Right-Angle Jack w/o Jam Nut and Washer	75			
73171-6590	Straight Jack				

BNC RF Jacks and Plugs, 50 and 75 Ohms

Series No.	Description	Impedance (Ohms)	Frequency	Style
<u>73171</u>	BNC Straight, Edge-Mount, Right-Angle Jacks and Plugs	50, 75	DC to 4 GHz DC to 10 GHz DC to 2 GHz 3 GHz	Miniature

75 Ohm Cable Assemblies

Series No.	Description
<u>Call Molex</u>	75 Ohm Belden 1694A terminated BNC plug style cable assemblies

www.molex.com/link/bncrfconnectors.html