Mini BNC Connectors, 75 Ohm

Product Facts

- **Bayonet locking coupling mechanism**
- **40% more interconnects in the same area**
- **Compatible with TROMPETER tooling**
- **Ideal for telecommunications and broadband applications**

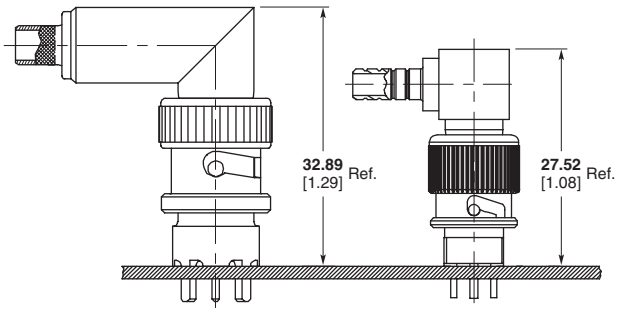


Tyco Electronics introduces the Mini BNC series of RF connectors to meet the growing demand for next generation telecommunications and broadband applications where higher connector densities are needed. Preserving the characteristics that have made the standard BNC so popular, the Mini BNC offers the same high performance currently found in standard Tyco Electronics BNC series, but offers 40% more interconnects in the same area.

The Mini BNC offering is an excellent fit for 75 Ohm systems, offering 500 mating cycles, electrical performance through 2 GHz, and is completely intermateable with competitive miniature BNC offerings. Tyco Electronics' Mini BNC product offers the same advantage of the bayonet locking mechanism as our standard BNC, allowing quicker connect and disconnects than standard threaded interfaces. It uses standard BNC installation tooling meaning there is no need for retraining of field telco installers, and it utilizes the same PCB footprint on the jack side, providing a drop in replacement for DS3 telco applications.

Mini BNC connector configurations currently available include PCB, panel mount, and flexible cable. Other options can be reviewed as well, including additional cable sizes, adapters, PCB surface mounting, and tape and reel packaging. Call your local sales office or authorized distributor for additional information or samples of the Mini BNC connector series.

Tyco Electronics is a leading supplier of RF and Microwave connectors and cable assemblies, and provides advanced technology products from well known and industry leading brands, including AMP and M/A-COM.



Material and Finish

Shells, Bodies, Mtg Nuts — Brass, nickel plated

Washers — Stainless Steel, nickel plated

Ferrule — Copper or Brass, tin plated

Center Contacts — Phos Bronze and Brass, gold plated

Dielectrics — PTFE

Electrical Characteristics

Frequency — DC – 2 GHz

Nominal Impedance — 75 ohms

Voltage Rating — 300 Volts (VRMS maximum) @ Sea Level

VSWR —
1.10 max to 500 MHz
(Return Loss -26.4 dB)
1.16 max to 1 GHz
(Return Loss -22.6 dB)

Insulation Resistance —
1,000 megohms minimum

Dielectric Withstanding Voltage —
1,000 Volts (VRMS maximum) @ Sea Level

Contact Resistance —
12 milliohms maximum

Mechanical Characteristics

Connector Durability —
500 mating cycles

Force to Engage —
7 pounds maximum

Force to Disengage —
1 pound minimum

Center Contact Retention —
2 pounds minimum

Cable Retention —
20 pounds minimum

Vibration — EIA-364-28, Test Condition VII, Condition D

Shock — EIA-364-27, Method H

Environmental Characteristics

Temperature Rating —
–40 to +85°C

Moisture Resistance — EIA-364-31, Method II, Condition C

Thermal Shock — EIA-364-32

Note: Performance specifications are typical, but may not apply to all connector types.

Related Product Data

Product Specification — 108-2159

Sample Kit — 1773042

TROMPETER is a trademark of Trompeter Electronics, Inc.

Catalog 1307191
Revised 3-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

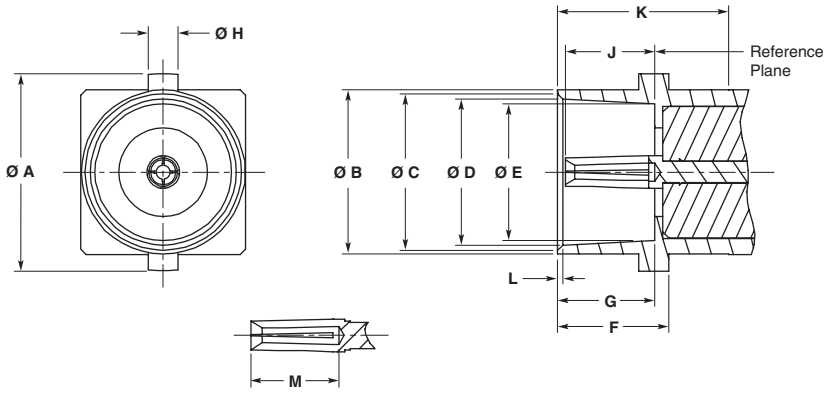
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

Mini BNC Connectors, 75 Ohm (Continued)

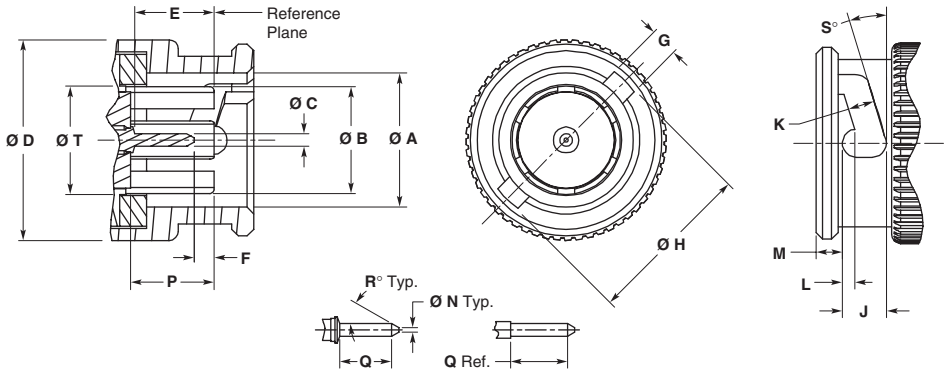
Interface Dimensions

Mini BNC Jack



Dimensions											
A	B	C	D	E	F	G	H	J	K	L	M
8.89–9.14 .350–.360	**7.37–7.62** .290–.300	**7.11–7.21** .280–.284	**6.63–6.73** .261–.265	**6.20–6.30** .244–.248	**5.03–5.13** .198–.202	**4.39–4.50** .173–.177	**1.32–1.42** .052–.056	**3.86–4.27** .152–.168	**7.70** .303 Min.	**0.18–0.30** .007–.012	**4.01** .158 Min.

Mini BNC Plug



Contact Types

Dimensions								
A	B	C	D	E	F	G	H	J
7.70–7.80 .303–.307	—	**0.71–0.76** .028–.030	**11.43–11.68** .450–.460	**4.27–4.93** .168–.194	**0.94–1.35** .037–.053	**1.57–1.68** .062–.066	**9.60–9.70** .378–.382	**2.50–2.59** .098–.102

Dimensions								
K	L	M	N	P	Q	R	S	T
1.57–1.68 .062–.066	**0.64–0.74** .025–.029	**1.47–1.57** .058–.062	**0.20–0.30** .008–.012	**4.62–4.93** .182–.194	**2.84–3.38** .112–.133	29°–31°	14°–16°	**6.20–6.30** .244–.248

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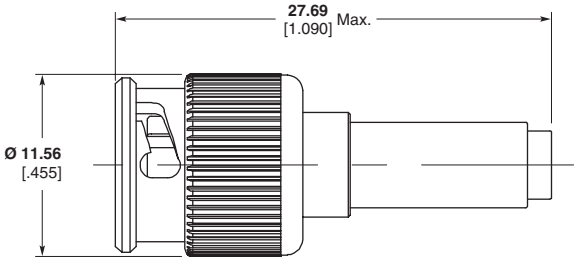
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Mini BNC Connectors, 75 Ohm (Continued)

Flexible Cable — Crimp Attachment

Straight Cable Plug

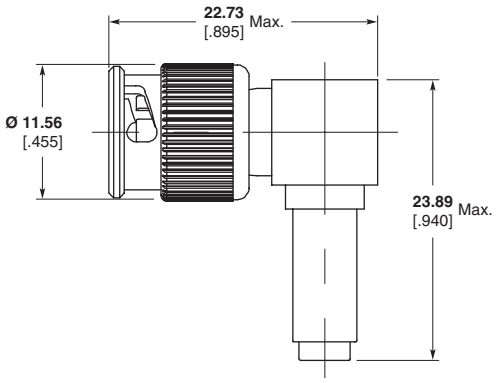




Cable	Part Number
735A	**1274563-1**
734A	**1274563-2**
RG 179	**1274563-3**

Right-Angle Cable Plug

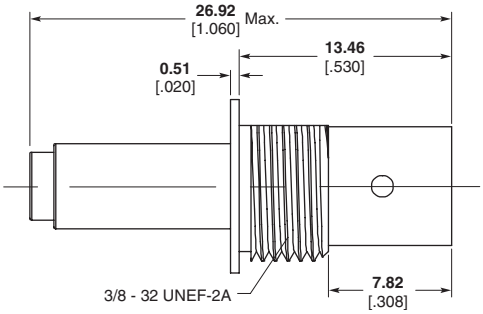


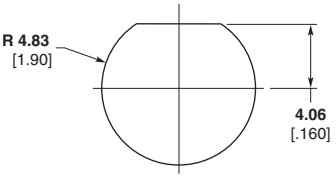


Cable	Part Number
735A	**1274566-1**
734A	**1274566-2**
RG 179	**1274566-3**

Bulkhead Cable Jack







Recommended Panel Cutout
Tolerance: ± 0.08 [.003]

Cable	Part Number
735A	**1274568-1**
734A	**1274568-2**
RG 179	**1274568-3**

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

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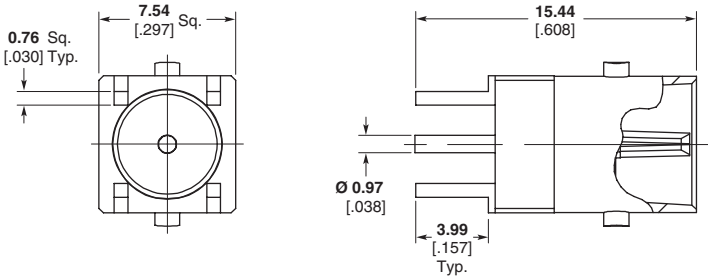
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Printed Circuit Board

Straight Jack Receptacle



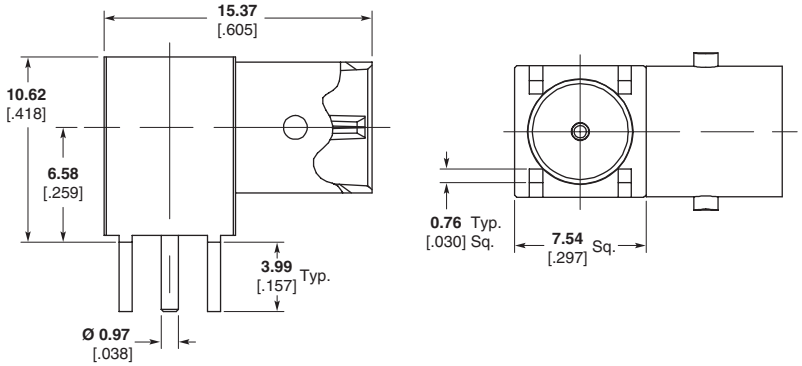
Part Number
1274571-1



Right-Angle Jack Receptacle



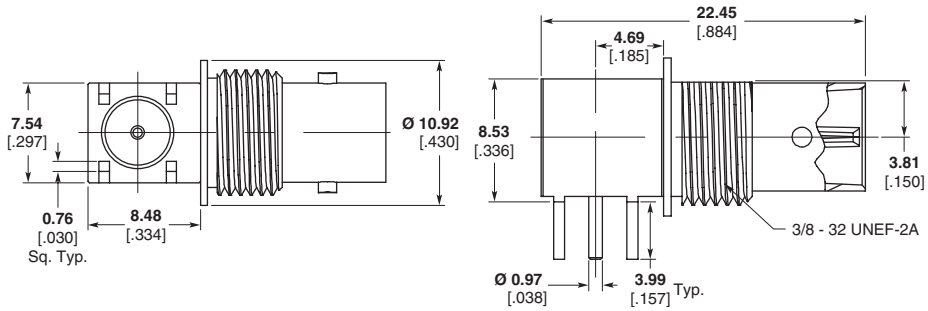
Part Number
1274572-1



Right-Angle Bulkhead Jack Receptacle



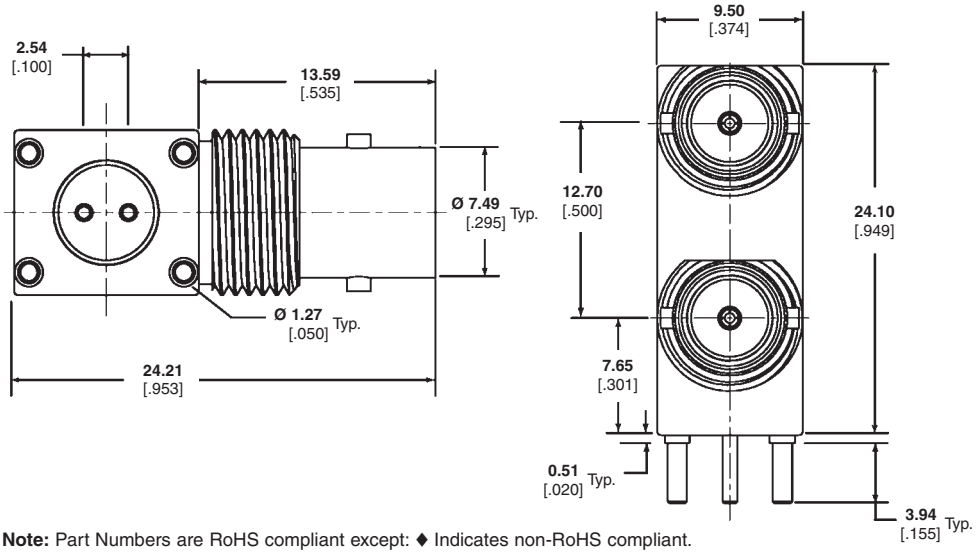
Part Number
1274584-1



2 Position, Right-Angle, Bulkhead Jack Receptacle



Description	Part Number
With Hardware	1274663-2
Without Hardware	1274684-1



Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

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