

Mini BNC

09/05 1773041

DESCRIPTION

75 Ohm Miniature BNC Series

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

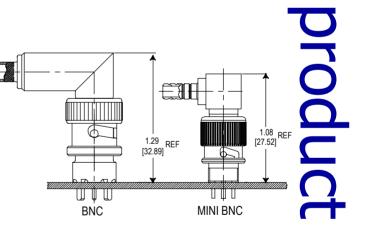
Tyco Electronics introduces the Mini-BNC series of RF connectors to meet the growing demand for next generation telecommunications and broadband applications where higher connector densities are needed. Preserving the characteristics that have made the standard BNC so popular, the Mini-BNC offers the 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.





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Mini BNC Specifications

Requirement	Detail	
General		
Materials	Shells, Bodies, Mtg Nuts:	Brass
	Washers:	Stainless Steel
	Ferrule:	Copper or Brass
	Center Contacts:	Phos Bronze and Bras
	Dielectrics:	PTFE
Finish	Shells, Bodies, Washers, Mtg Nuts:	Nickel
	Ferrule:	Tin
	Center Contacts:	Gold
Electrical		
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		
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		
Temperature rating	-40 to +85°C	
Moisture Resistance	EIA-364-31, Method II, Condition C	
Thermal Shock	EIA-364-32	

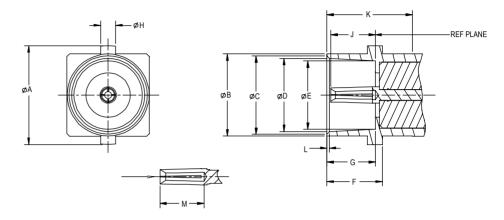
Note: Performance specifications are typical, but may not apply to all connector types



Mini BNC Interface Dimensions

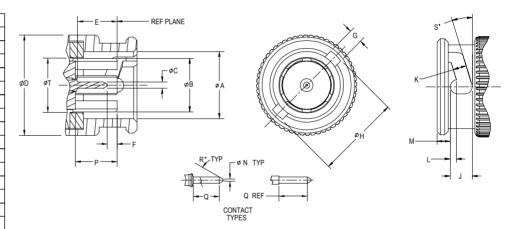
MINI BNC JACK

DIM	MINIMUM	MAXIMUM
Α	.350	.360
В	.290	,300
С	.280	.284
D	.261	.265
E	.244	.248
F	.198	.202
G	.173	.177
Н	.052	.056
J	.152	.168
K	.303	_
Ĺ	.007	.012
М	.158	_



MINI BNC PLUG

MINIMUM	MAXIMUM
.303	.307
-	_
.028	.030
.450	.460
.168	.194
.037	.053
.062	.066
.378	.382
.098	.102
.062	.066
.025	.029
.058	.062
.008	.012
.182	.194
.112	.133
29	31
14	16
.244	.248
	.303 - .028 .450 .168 .037 .062 .378 .098 .062 .025 .058 .008 .182 .112 .29



Dimensions shown are inches unless otherwise specified

TECHNICAL DOCUMENTS

- Product Spec 108-2159
- •Sample Kit 1773042

FOR MORE INFORMATION

Internet

http://tycoelectronics.com

Technical Support Center 1-800-522-6752



Mini BNC Product Offering

Flexible Cable - Crimp Attachment

Straight Cable Plug

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

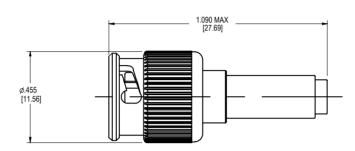
Cable

735A

734A

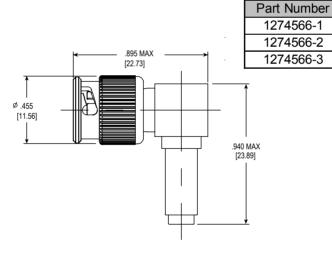
RG 179



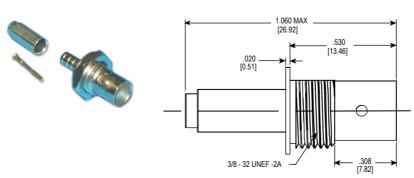


Right Angle Cable Plug

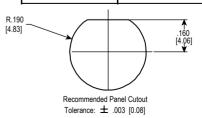




Bulkhead Cable Jack



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



Dimensions are inches over millimeters unless otherwise specified

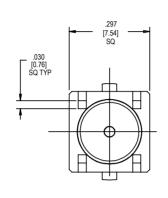
tycoElectronics

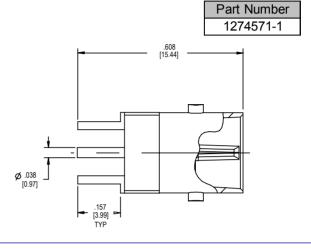
Mini BNC Product Offering

Printed Circuit Board

Straight Jack Receptacle

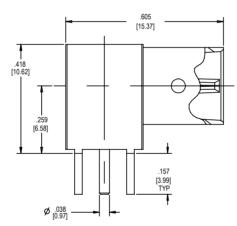




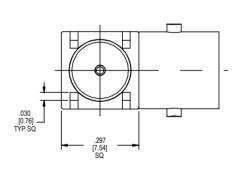


Right Angle Jack Receptacle



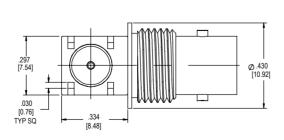




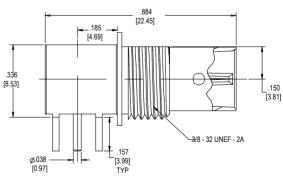


Right Angle Bulkhead Jack Receptacle





Part Number 1274584-1



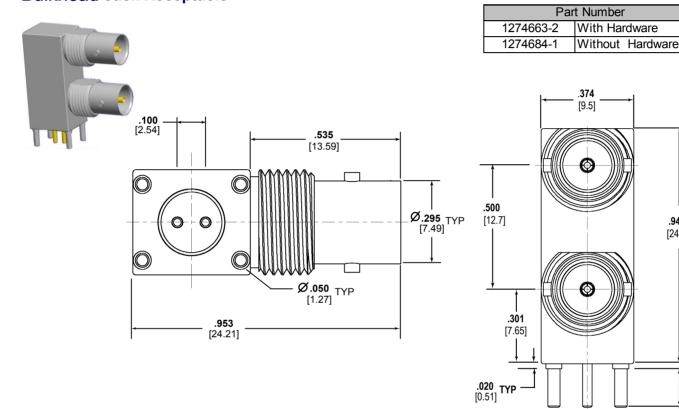
Dimensions are inches over millimeters unless otherwise specified



Mini BNC Product Offering

Printed Circuit Board

2 Position, Right Angle, **Bulkhead Jack Receptacle**



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