

## QT-BNC

This innovative termination technique provides the QT-BNC with a high pressure, gas tight center conductor joint of exceptional mechanical integrity, without crimping the center contact. The QT-BNC is a 75 ohm pre-assembled connector with an integral central contact and rear crimp ferrule. This connector may be terminated onto cable in under 20 seconds, significantly reducing installation costs.



### Applications

- Central Office Switching • Cross Connect Equipment • Telecommunications

### Features and Benefits

Designed to simplify field installations with less piece parts

Optional right angle strain relief boot accessory (show above)

Telcordia Audited and Approved

Plastic rear cap is color coded for easy identification of cable type

Compatible with select competitive crimp tools and die sets

3:1 reduction in assembly time than conventional 3 piece crimp BNC plugs

RoHS Compliant Part Numbers



### Specifications

Bump	4000 total at 390 m/s <sup>2</sup>												
Cable Retention	<table border="1"> <thead> <tr> <th>Cable</th> <th>Axial Force</th> <th>Torque</th> </tr> </thead> <tbody> <tr> <td>M17/29-RG59/734 type</td> <td>133 N (30 lbs) min.</td> <td>0,9 Nm (8.0 in. lbs)</td> </tr> <tr> <td>735A type</td> <td>311 N (70 lbs) min.</td> <td>0,9 Nm (8.0 in. lbs)</td> </tr> <tr> <td>BT3002</td> <td>111 N (25 lbs) min.</td> <td>0,45 Nm (4.0 in. lbs)</td> </tr> </tbody> </table>	Cable	Axial Force	Torque	M17/29-RG59/734 type	133 N (30 lbs) min.	0,9 Nm (8.0 in. lbs)	735A type	311 N (70 lbs) min.	0,9 Nm (8.0 in. lbs)	BT3002	111 N (25 lbs) min.	0,45 Nm (4.0 in. lbs)
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BT3002	111 N (25 lbs) min.	0,45 Nm (4.0 in. lbs)											
Connector Durability	500 mating cycles min.												
Contact Current Rating	1.5 A dc max.												
Contact/Insulator Retention	22,3 N (5 lbs) min. axial force												
Contact Resistance	Outer contact: 1.0 mΩ max.; Braid to body: 1.0 mΩ max.												
Corona Level	375 V ac rms min. at 21 km (70,000 ft)												
Coupling Mechanism Retention	445 N (100 lbs) min.												
DWV	1500 V ac rms at sea level												
Frequency Range	DC to 2.0 GHz												
Impedance	75Ω nominal												
Insertion Force	22,3 N (5 lbs) max.												
Insertion Loss	0.2 dB max. at 2 GHz												
Insulation Resistance	5000 MΩ min.												
Operating Temperature	-40°C to 85°C (-40°F to 185°F)												
Operating Voltage	500 V ac rms at sea level												
RF Leakage	-60 dB typical up to 2 GHz												
Shock	490 m/s <sup>2</sup> for 11 ms												
Termination Resistance (QT Center contact)	3 mΩ max. (excluding pole resistance)												
Vibration	(a) Frequency range from 10 Hz to 500 Hz. (b) Displacement: 0.75 (.029), (c) Acceleration: 98 m/s <sup>2</sup> , (d) Duration: 6 hours.												
VSWR	1.2 max. (DC to 1 GHz); 1.3 max. (1 to 2 GHz)												

Description	Material	Finish
Connector Body	Phosphor bronze	3.5 μM (140 μ in.) Nickel
Insulators	Polymers rated to UL 94V-0	—
Center Contact Male	Beryllium copper	1.27 μM (50 μ in.) Gold
Coupling Nut	Die Cast, Copper Zinc Alloy	2.0 μM (80 μ in.) Nickel
Crimp Ferrule	Annealed Copper Alloy	3.8 μM (150 μ in.) Nickel
Spring	Stainless Steel	—

Dimensions shown in mm (inch)

Specifications and dimensions subject to change

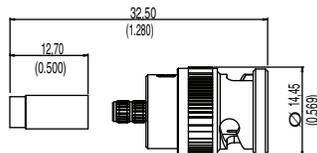
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# Cannon 75 Ohm Connectors

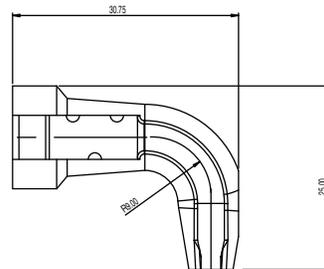
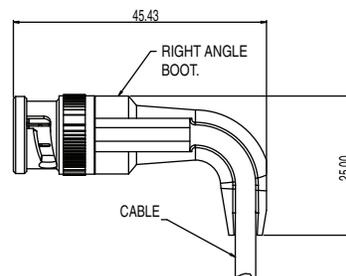
## QT-BNC

### QT BNC Plug

Part Number	Cap Color	Cable Type
W58-124-9019910	Red	735A
W58-124-901991A	Red	735A
W58-124-9019916	Red	735A
W58-124-9039910	Yellow	RG59B
W58-124-9039916	Yellow	RG59B
W58-124-9069910	Blue	734
W58-124-9069916	Blue	734
W58-124-908991A	White	BT3002 / TZC75024
W58-124-919991A	Red	0.4/2.42/4.07
W58-124-901991S	Red	735A
W58-124-901991R	Red	735A
33533-47-010006		735A



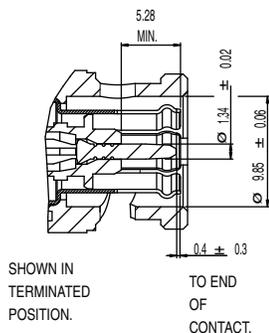
QT-BNC w/Boot  
 QT-BNC w/Boot  
 RTA Boot Only for 735A



#### Assembly Instructions:

BBAI 1243 (RG-59)  
 BBAI 1262 (735, 734)  
 BBAI 1268 (BT 3002, TCZ75024)

#### Mating Interface



#### Tooling Accessories:

Dual Action QT-BNC Hand Crimp Tool  
 QT-BNC Pneumatic Crimp Tool  
 Powered Coaxial Cable Strip Tools and Cutter Heads

Please refer to the Tooling section pages 22-25 for part numbers.

Last digit in p/n signifies packaging type:

0 = single bag  
 A = 25 pc tray  
 6 = 100 pc bag  
 S = single  
 R = 100 pc bag  
 RTA Boot = 1000 pc bag



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