

Specifications for Twin BNC Connectors

"Twin BNC" Series connectors (also called BNO type) are weatherproof and mechanically as stable as the standard BNC connectors. These connectors have a unique polarized contact assembly and a two-stud bayonet coupling mechanism which provides quick connect and disconnect. These connectors have a nominal impedance of 100 ohms and are matched to twinaxial (twin conductor) data transmission cables. These connectors will not mate with standard BNC types.

MATERIALS		
Connector Parts	Material	Equivalent Standard †
Connector Body and Parts	Brass	ISOCuZn38Pb2 Body Part
Male Contact Pin	Brass, Gold Plated	QQ-B-626
Outer Contact	Brass	QQ-B-750
Socket Contact	Phosphor Bronze	CuBe2
Crimp Ferrule	Annealed Copper	QQ-C-576
Insulators, Standard Versions	Delrin	Grade B
Rubber Gaskets	Silicone Rubber	ASTM-E1418PSI
Body Plating	Nickel (Silver Optional)	MIL-G-45204

ELECTRICAL		
Requirement	Performance	Test † Specification
Impedance	Non Constant	—
Frequency range	0-500MHz	—
VSWR	1.30 Max.	MIL- C-39012
Test Voltage (At Sea Level)	1500V rms	MIL-STD-202
Working Voltage (At Sea level)	500V rms	MIL-STD-202
Insulation Resistance	5000 Megohm Min.	MIL-STD-202
Contact Resistance	0.2 Milliohm Max.	MIL- C-39012

MECHANICAL & ENVIRONMENTAL		
Requirement	Performance	Test † Specification
Durability	200 Insertions & Extractions Min.	MIL-C-39012
Shock	50 G	MIL-STD-202
Vibration	20 G from 80-2000 Hz	MIL-STD-202
Cable Retention (Cable Types)	25 lbs. Minimum Pull Test	MIL-C-39012
Coupling Nut	60 lbs. Maximum	MIL-C-39012
Temperature Range	PTFE: -55 to +199 C	—
Moisture Resistance	Continuous Test	MIL-STD-202

FOR TECHNICAL SUPPORT: PHONE 973-347-4040 / FAX 973-347-2111 [Back to Index](#)

16

- Page 17 -

Twin BNC Connectors

Crimp or Solder Plug

Twin BNC plugs are available in three assembly styles: solder/clamp, standard crimp, and Bomar's exclusive SATCONN™ (Simplified Assembly Technique Connector) The solder/clamp type requires no special tooling, the standard crimp version requires the use of commercially available specialized tooling. This tooling can be rather expensive. The standard crimp types have vent holes for optional soldering. The Satconn™ type uses Bomar's inexpensive standard crimp tool.

Part Number	RoHS	Description	RG/U Cable	Fig. No.
410A103J*	✓	Solder/Clamp	Belden 9815 or =	82A
410A903Y*	✓	Standard Crimp	Belden 9815 or =	83
410A903Y1	✓	Satconn™ Crimp	Belden 9272 or =	84
✓ RoHS compliant REQUEST QUOTE REQUEST DRAWING				

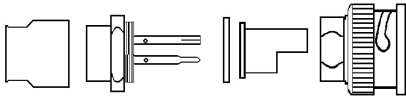


Fig. 83

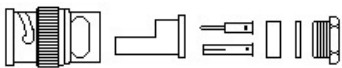


Fig. 82A

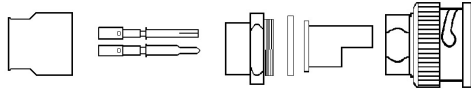
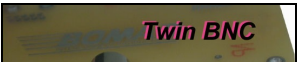


Fig. 84

PCB Jacks

One version is available for front mounting into a bulkhead, or panel hole. This jack is held into the panel by a hex-nut and lock-washer. The unit features nickel plated, brass bodies, gold plated brass male pin and gold plated phosphor-bronze female contact.

Part Number	RoHS	Description	Fig. No.
426A505	✓	Bulkhead Jack, Solder Cup	87
464A595	✓	PCB Right Angle Jack, Plastic	87A
464M595	✓	PCB Right Angle Jack, Metal	87B
461V504E	✓	V-Bite PCB Mount	87C
✓ RoHS compliant reflow or wave solder ✓ RoHS compliant wave solder only REQUEST QUOTE REQUEST DRAWING			



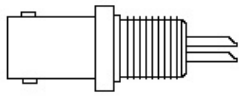


Fig. 87

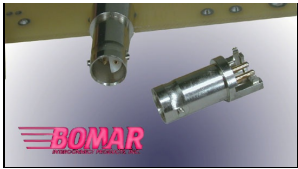


Fig. 87C

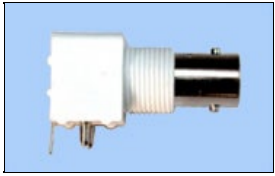


Fig. 87A

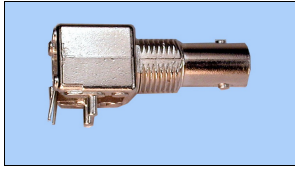


Fig. 87B

* Denotes that items are not popular and may require a special minimum quantity.