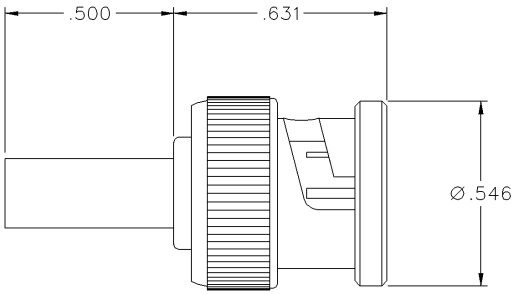
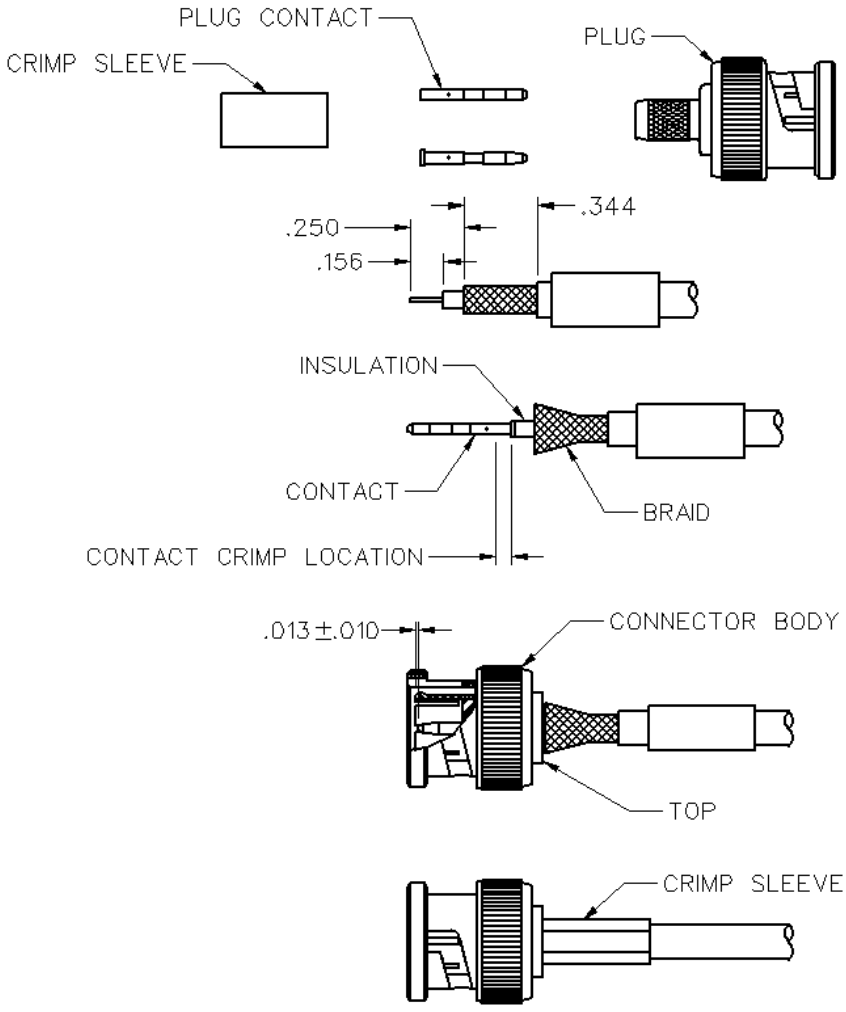
True 75 Ohm BNC Straight Cabled Plug - 3 Piece Solder or Crimp Captivated Contact

CAMBRIDGE PRODUCTS

INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST



PART NUMBER	CABLE TYPE	CONTACT I.D.	BODY I.D.	FERRULE I.D.
CPMC-68-36	Belden 1695A Gepco VSD2001TS	.044 (1.12)	.176 (4.47)	.265 (6.73)



1. Identify connector parts. (3 piece parts)
2. Slide crimp sleeve over the cable as shown.
3. Strip cable per dimensions given and loosen braid.
4. Place contact over cable center conductor and position against insulation.
5. Crimp (.042 crimp hex) or solder contact. If crimping the contact, crimp the contact as close as possible to the cable insulation as shown.
6. Push the cable with the attached contact into the connector body until contact is captured by internal rib within connector body. Contact location shall be per dimension shown. Slide crimp sleeve over braid until it rests against top of connector body. Finish assembly by crimping with appropriate crimp hex die as indicated for each connector by the table.

Part Number	Cable Type	Crimp Sleeve Hex	Contact Crimp Hex	Recommended Crimp Tool
CPMC-68-36	Belden 1695A, Gepco VSD2001TS	.264 (6.71)	.042 (1.07)	24-9961P

BNC Connectors - True 75 Ohm

Specifications

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Electrical Characteristics

Impedance: 75 Ohm
Frequency range: 0-3 GHz
VSWR:
BNC Cabled Plugs (except CPMC-68-18) ..... 1.10 + .03 F (F in GHz)
CPMC-68-18 ..... 1.22 + .01 F (F in GHz)
BNC Adapters (In-series and Between-series) 1.03 + .02 F (F in GHz)
Working voltage: BNC Cabled Plugs and Adapters
(except CPMC-88-18, 20 and 33) ..... 500 VRMS at sea level
CPMC-88-18, 20 and 33 ..... 335 VRMS at sea level
Dielectric withstanding voltage:
BNC Cabled Plugs and Adapters
(except CPMC-88-18, 20 and 33) ..... 1500 VRMS at sea level
CPMC-88-18, 20 and 33 ..... 1000 VRMS at sea level
Insulation resistance: 5000 megohms minimum
Contact resistance:
Outer - Nickel plated initial 1.0 milliohm max,
after environmental 1.5 milliohm max
Center - Initial 3 milliohm max,
after environmental 4 milliohm max
Braid to Body - 2.5 milliohm max (nickel plated), after environmental not applicable
Corona level: 375 volts minimum at 70,000 feet
RF High Potential Withstanding Voltage: 700 VRMS at 4 MHz

Environmental Characteristics

(meets or exceeds the applicable paragraph of MIL-C-39012)
Thermal shock: MIL-STD-202, Method 107
Operating temperature: -65° C to 165° C
Corrosion: MIL-STD-202, Method 101, Condition B
Shock: MIL-STD-202, Method 213, Condition B
Vibration: MIL-STD-202, Method 204, Condition B
Moisture resistance: MIL-STD-202, Method 106

Mechanical Characteristics

Durability: 500 cycles min
Force to engage/disengage: 5 lbs. max, after durability 5 lbs max; 1 lb. min.
Coupling nut retention: 75 lbs. min
Contact retention: 6 lbs. min axial force

Material Specifications

Body: Brass, nickel plated .0001 min over copper plated .00005 min
Contact: Brass, gold plated .00005 min over nickel plated .00005 min over copper plated .00005 min
Crimp Sleeve: Copper, nickel plate .0001 min over copper plated .00005 min
Nut: Zinc, nickel plated over copper plated
Insulator: Teflon
Spring Washer: Beryllium Copper (unplated)
Flat Washer: Steel, nickel plated
Gasket: Silicone rubber

True 75 Ohm BNC Plug and Jack Mating Engagement