Connectivity Solutions

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Product Detail

Product Line:	Cambridge (Click for customer service)
Part Number:	CP-89-19-BM1
Description:	50 Ohm BNC Straight Crimp Type Rear Mount Bulkhead Jack - 3 Piece, Solder or Crimp Contact
Product Family:	N
Body Style:	Bulkhead
Color / Finish:	Nickel
Frequency:	4 GHz
Genders:	Female
Ohm:	50
Product Type:	Cabled
Tool:	CP-DCC-0908
RoHS Compliant:	Yes

20070523-1523

Straight Crimp Type, Rear Mount Bulkhead Jack - Solder or Crimp Contact - 3 Piece

Ø.508 (12.90)

.472 (12.00)
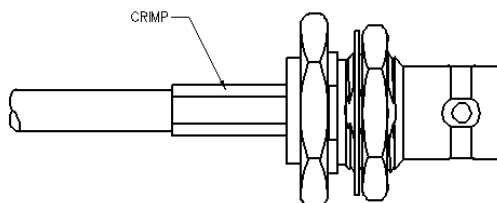
"A"

HEX .689 (17.50)

HEX .630 (16.00)
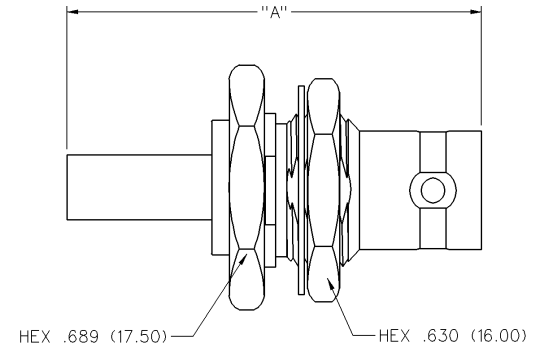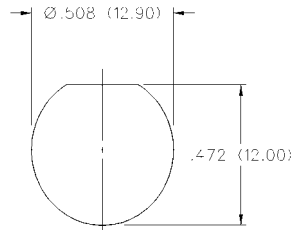
PART NUMBER	CABLE TYPE	"A"
CP-89-19BM1*	RG-174, 188, 316	1.409 (35.80)

Denotes tapered ferrule as shown in photo.

CRIMP SLEEVE

JACK CONTACT

REAR MOUNT BULKHEAD JACK

FRONT MOUNT BULKHEAD JACK

CRIMP SLEEVE — JACKET

"A"

"B"

"C"

CENTER CONDUCTOR

INSULATION

BRAID

SOLDER OR CRIMP

JACK CONTACT

BODY ASSEMBLY
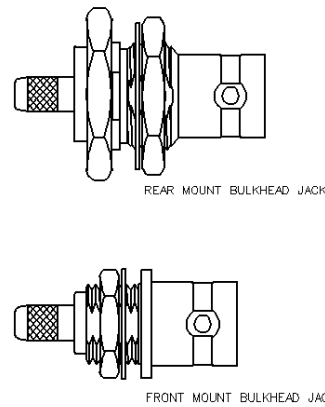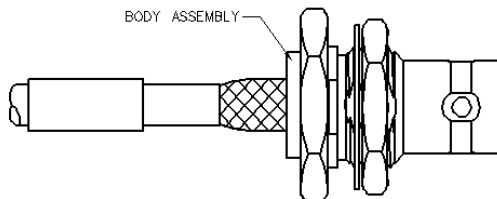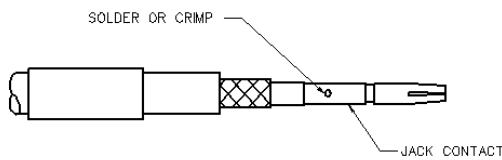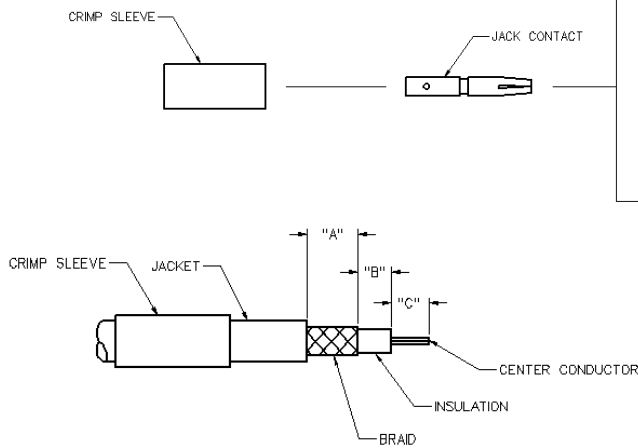
CRIMP

1. Identify connector parts. (3 piece parts)

2. Strip cable to dimensions shown. Do not nick braid or center conductor. Tin center conductor if contact will be solder attached. Do not tin center conductor if contact is to be crimp attached. A wire stripper of correct size is recommended for this step. Slide heat shrink (as applicable) and crimp sleeve onto jacket of cable.

3. Assemble contact onto cable as shown.
   Solder Attachment: Solder contact to center conductor through hole using a minimum amount of solder for a good joint.
   Crimp Attachment (where applicable): Crimp contact to center conductor using recommended crimp hex.

4. Flare braid and slide body assembly over contact and under braid. Then seat body assembly firmly onto contact. The cable may have to be held in a clamping fixture. Arrange braid uniformly around crimp stem. Slide crimp sleeve forward and crimp using recommended crimp hex. Slide heat shrink forward and shrink (as applicable).

Part Number	Cable	Strip Dimensions			Crimp Sleeve Hex	Contact Crimp Hex	Recommended Crimp Tool
		"A"	"B"	"C"			
CP-89-19BM1	RG-174, 316	.315 (8.00)	.197 (5.00)	.138 (3.50)	.178 (4.52)	.066 (1.69)	CP-DCC-0908

BNC Connectors

Specifications

The BNC series connector is a commercial quality product that intermates with all standard double bayonet stud BNC designs. All contacts are captivated for ruggedness. The 50 ohm and 75 ohm interfaces are intermateable and provide quick, reliable connections for instrumentation, medical and LAN applications.

Specifications*

50 Ohm BNC
Electrical Characteristics
Impedance: 50 Ohm nominal
Frequency range: 0-4 GHz
Working voltage: 500 volts RMS at sea level
Dielectric withstanding voltage: 1500 volts RMS at sea level
Corona level: 375 volts minimum at 70,000 feet
Contact resistance: Outer - 0.2 milliohms maximum
                                    Center - 2.1 milliohms maximum
Insulation resistance: 5000 megohms minimum
Environmental Characteristics
Recommended temperature range: -55°C to +85°C
Moisture resistance: MIL-STD-202
Mechanical Characteristics
Durability: 500 cycles
Force to engage/disengage: 3 lbs. maximum
Cable retention: 20 lbs., RG-58 C/U cable
Materials
Body: Zinc or brass
Contact: Brass, beryllium copper or phosphor bronze
Spring Washer: Beryllium copper
Crimp sleeve: Brass
Insulator: Delrin® or TPX Polymethylpentene
Plating: Body - Nickel (except where noted)
            Crimp sleeve - Nickel
            Contact - Gold

* These values are typical and may not apply to all connectors.