

BNC8105BG-0316/BL

BNC Jack Crimp Bulkhead
IP67 Mated; 4GHz VSWR 1.2

50Ω

Technical drawing of the BNC8105BG-0316/BL connector. The drawing includes a side view and a front view. The side view shows the connector's profile with dimensions: IP67 (MATED) length, MAX. 6.4 [0.252] for the nut, 11 [0.433] for the barrel, 2.6 [0.102] for the gasket, and 29 [1.142] for the total length. The barrel has a diameter of 15 [0.591]. The nut has a diameter of 1.6 [0.063] and a length of 2.35 [0.093]. The gasket is labeled "GASKET". The front view shows the connector's face with dimensions: 8.55 [0.337] for the outer diameter, 12.7 HEX [0.500 HEX] for the hexagonal base, and 9 [0.354] for the mounting hole diameter. The mounting hole is labeled "MOUNTING HOLE". The drawing also indicates a 3/8-32UNEF-2A thread for the nut.

Parts	Material	Plating (Micro-inch)
Ferrule	Brass	Black Chromium 5 Over Copper 50
Gasket	Silicone	
Small Pin	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Nut	Brass	Black Chromium 5 Over Copper 50
Washer	Brass	Black Chromium 5 Over Copper 50
Barrel	Brass	Black Chromium 5 Over Copper 50
Insulator	Teflon	
Contact Pin	Phosphor Bronze	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Body	Brass	Black Chromium 5 Over Copper 50

Suitable Cables: RG174, RG188, RG316, RG316-FEP, RG316-LSFH

This part number complies with RoHS.

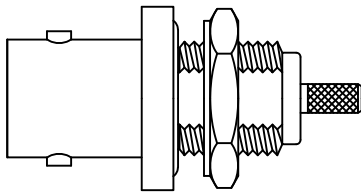
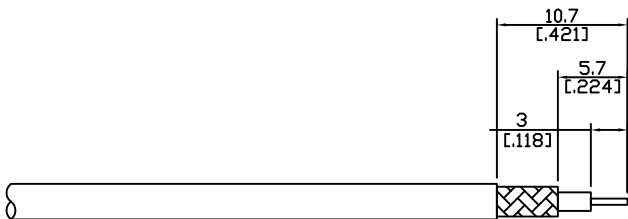
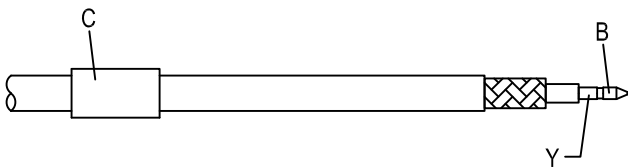
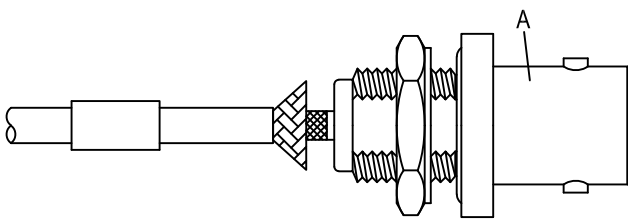
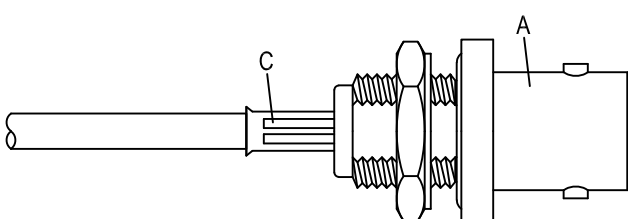
Notice: JYBAO reserves the right to make modifications deemed appropriate.

BNC	BNC8105BG-0316/BL
Interface MIL-STD-348B	
Electrical Data Impedance 50Ω Frequency range DC to 4GHz VSWR ≤ 1.2 (DC to 4GHz) Insertion loss $\leq 0.1 \times \sqrt{f(\text{GHz})}\text{dB}$ Insulation resistance $\geq 5000\text{M}\Omega$ Contact resistance inner conductor $\leq 1.5\text{m}\Omega$ Contact resistance outer conductor $\leq 1\text{m}\Omega$ Dielectric withstanding voltage (at sea level) 1500 V rms Working voltage (at sea level) 500 V rms	
Mechanical Data Recommended coupling nut torque 0.6 to 2.5 inch lbs Contact captivation-axial ≥ 6.1 lbs Durability (mating) ≥ 500	
Environmental Data Temperature range -65°C to +165°C Thermal shock MIL-STD-202, Method 107, Condition B Moisture resistance MIL-STD-202, Method 106 Corrosion MIL-STD-202, Method 101, Condition B RoHS Compliant	
Tooling Crimping tool CRT-1 or CRT-2 Crimp insert INSERT-A	

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JYE BAO CO., LTD.

CABLE ASSEMBLY INSTRUCTION

BNC8105BG-0316/BL		DATE	2015/10/22	REV	—
A B C    BODY + GASKET + WASHER + HEX NUTCONTACT PINFERRULE					
DIAGRAM			ASSEMBLY INSTRUCTION		
			Step 1: STRIP AS SHOWN.		
			Step 2: SLIDE FERRULE " C " OVER CABLE. Step 3: PUT PIN " B " ON CENTER CONDUCTOR AND CRIMP IN " Y ". (USE SQUARE 0.7mm/0.028inch SECTION OF INSERT-A)		
			Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE.		
			Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP. (USE 3.3mm/0.130inch HEX SECTION OF INSERT-A)		
This part number complies with RoHS. Notice: JYEBAO reserves the right to make modifications deemed appropriate.					
APPROVED		CHECKED		DRAWING	
				Albert	

BNC8105BG-0316/BL

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