BROWNING ELECTRONICS

BNC SERIES

GENERAL DESCRIPTION

This medium, light weight size connector series has a weatherproof bayonet locking mechanism. This series is used with small and medium size cables. The BNC series also accommodates various PCB, flange and bulkhead configurations. They are generally used in applications up to 4 Ghz.

MATERIALS

Bodies & Other Parts: Brass per ASTM B16 or equivalent. Female Contacts: Beryllium Copper per ASTM B196 or equivalent.

Male Contacts: Brass per ASTM B16 or equivalent.

Insulators (Dielectric): PTFE Fluorocarbon per ASTM D1710 or equivalent.

Gaskets: Silicone Rubber per AA59588 or equivalent.

ELECTRICAL

Impedance: 50 Ohms Nominal Frequency Range: DC-4 GHz

Insulation Resistance: 5,000 Megohms min.

Voltage Rating: 500 VRMS

Dielectric Withstanding: 1,500 VRMS at sea level Voltage Standing Wave Ratio (VSWR): 1.30 max.

Contact Resistance:

Outer Contact: 0.2 Milliohms Center Contact: 1.5 Milliohms

ENVIRONMENTAL

Temperature rating: -65°C to +165°C Vibration: MIL-STD-202, Method 204 Shock: MIL-STD-202, Method 213

Thermal Shock: MIL-STD-202, Method 107 Corrosion (Salt Spray): MIL-STD-202, Method 101 Moisture Resistance: MIL-STD-202, Method 106

PLATING OPTIONS

Gold: Per MIL-G-45204, Type II, Grade C

Nickel: Per QQ-N-290, Class II

Silver: Per QQ-S-365, Type II, Grade A

MECHANICAL

Force to Engage and Disengage: Longitudinal force: 3.0 lbs. max.

Torque: 2.5 in-lbs. max.

Coupling Nut Retention Force: 100 lbs. Min.

Mating Cycles: 500 min.

DESIGN IN ACCORDANCE WITH

US MIL-PRF-39012, MIL-STD-348

CECC: 22 120 IEC: 169-8 VG 95200

BE: ES101, ES103, ES105



