Datasheet

CSC-BNCM-ccc-BNCM
BNC Plug to BNC Plug Cable Assembly

The CSC-BNCM-ccc-BNCM cable assembly provides a BNC plug (male pin) to BNC plug (male pin) connection with the option of 914 mm, 1500 mm, or 1800 mm lengths of RG-58C/U coaxial cable.

Operating from 0 Hz to 1 GHz, the CSC-BNCM-ccc-BNCM cable assembly combines superior performance, compact size, and a convenient twist-lock mating interface to provide a reliable, easy-to-use cable assembly. Additionally, all Linx coaxial cables and connectors meet RoHS lead free standards and are tested to meet requirements for corrosion resistance, vibration, mechanical and thermal shock.

Features

- 0 Hz to 1 GHz operation
- BNC plug (male pin) connection
  - Nickel plated brass construction
  - Gold plated brass center contact
  - Bayonet-style (push-twist) connection
  - RG-58C/U 50 ohm coaxial cable

Applications

- Audio/Video
- Broadcasting
- Test Equipment
- Surveillance Systems
- Ethernet
- Industrial, Commercial, Enterprise

Table 1. Electrical Specifications

Parameter	Value		
Insertion Loss (dB max)	CSC-BNCM-914-BNCM	CSC-BNCM-1500-BNCM	CSC-BNCM-1800-BNCM
	1.0	1.3	1.4
VSWR (max)	1.6		
Impedance	50 Ω		
Insulation Resistance	500 MΩ min.		

Ordering Information

Part Number	Description
CSC-BNCM-914-BNCM	BNC plug (male pin) to BNC plug (male pin) on 914.0 mm (35.98 in) of RG-58C/U coaxial cable
CSC-BNCM-1500-BNCM	BNC plug (male pin) to BNC plug (male pin) on 1500.0 mm (59.06 in) of RG-58C/U coaxial cable
CSC-BNCM-1800-BNCM	BNC plug (male pin) to BNC plug (male pin) on 1800.0 mm (70.87 in) of RG-58C/U coaxial cable

Available from Linx Technologies and select distributors and representatives.

Product Dimensions

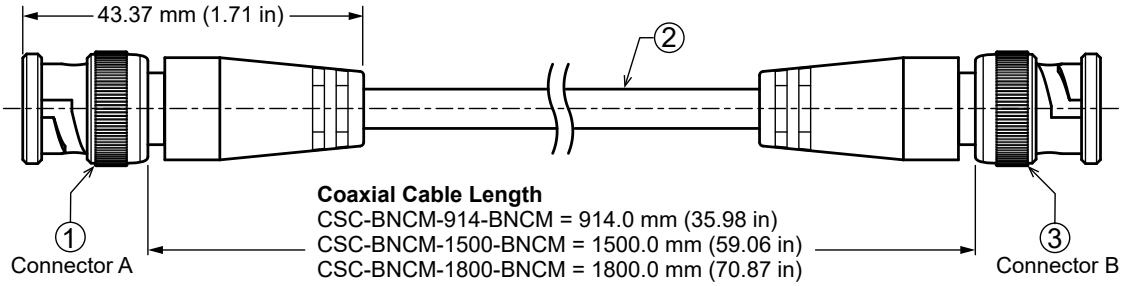

Figure 1. Product Dimensions for the CSC-BNCM-ccc-BNCM Cable Assembly

Table 2. Cable Assembly Components

Item #	Description	Material	Finish
1	Connector, BNC plug (male pin)	Brass	Nickel
2	RG-58C/U coaxial cable	RG-58C/U	Black
3	Connector, BNC plug (male pin)	Brass	Nickel

Table 3. Cable Assembly Mechanical Specifications

Parameter	Connector A BNC plug (male pin)	Connector B BNC plug (male pin)
Fastening Type	Bayonet-style Coupling (Push/Twist)	Bayonet-style Coupling (Push/Twist)
Connector Durability	500 cycles min.	500 cycles min.
Weight	CSC-BNCM-914-BNCM = 56.5 g (2.00 oz) CSC-BNCM-1500-BNCM = 76.8 g (2.71 oz) CSC-BNCM-1800-BNCM = 86.8 g (3.10 oz)	

Coaxial Cable Specifications

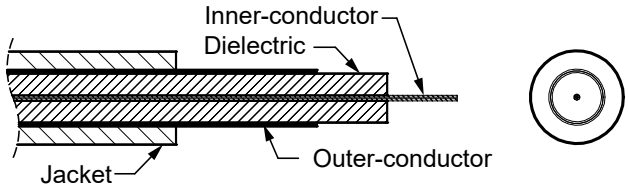

Figure 2. Coaxial Cable Cutaway Diagram

Table 4. Coaxial Cable Material Specifications for RG-58C/U

Parameter	Material	Dimensions
Inner-Conductor	Silver plated copper, 19 strand, 21 AWG	Ø0.085 mm (0.003 in)
Dielectric	PE, Natural	Ø2.95 mm (0.12 in)
Outer-Conductor	Silver plated copper braid, 112/0.10	Ø3.05 mm (0.12 in)
Jacket	PVC, black	Ø5.0 mm (0.02 in) ±0.10 mm

Table 5. Coaxial Cable Electrical and Physical Specifications for RG-58C/U

Parameter	Value					
Conductor Resistance	46.9 Ω/km @20 °C					
Nominal Impedance	50 ± 5 Ω					
Attenuation (dB/1M)	1.0 MHz 14	10 MHz 48	30 MHz 81	100 MHz 160	200 MHz 230	2000 MHz 900
Minimum Inside Bend radius	50.8 mm (2.00 in)					

Insertion Loss

Figure 3 shows the Insertion Loss for the CSC-BNCM-ccc-BNCM cable assemblies. Insertion loss is the loss of signal power (gain) resulting from the insertion of a device in a transmission line.

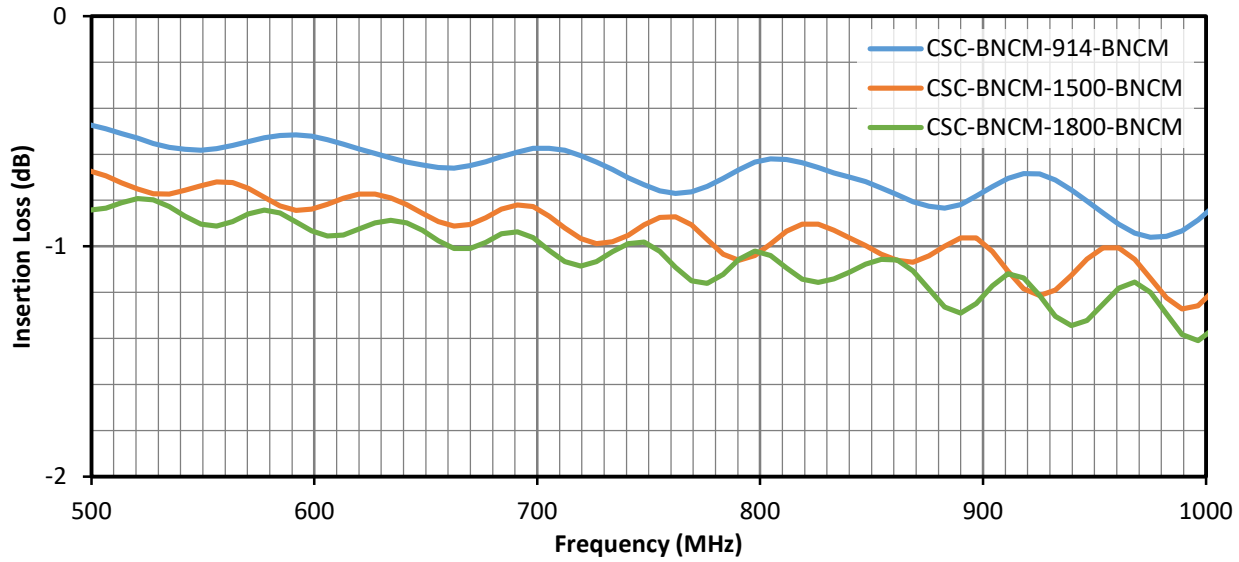

Figure 3. Insertion Loss for the CSC-BNCM-ccc-BNCM Cable Assemblies

VSWR

Figure 4 provides the voltage standing wave ratio (VSWR) across the cable assembly's bandwidth for the CSC-BNCM-ccc-BNCM cable assemblies. VSWR describes how efficiently power is transmitted through the cable assembly. A lower VSWR value indicates better performance at a given frequency.

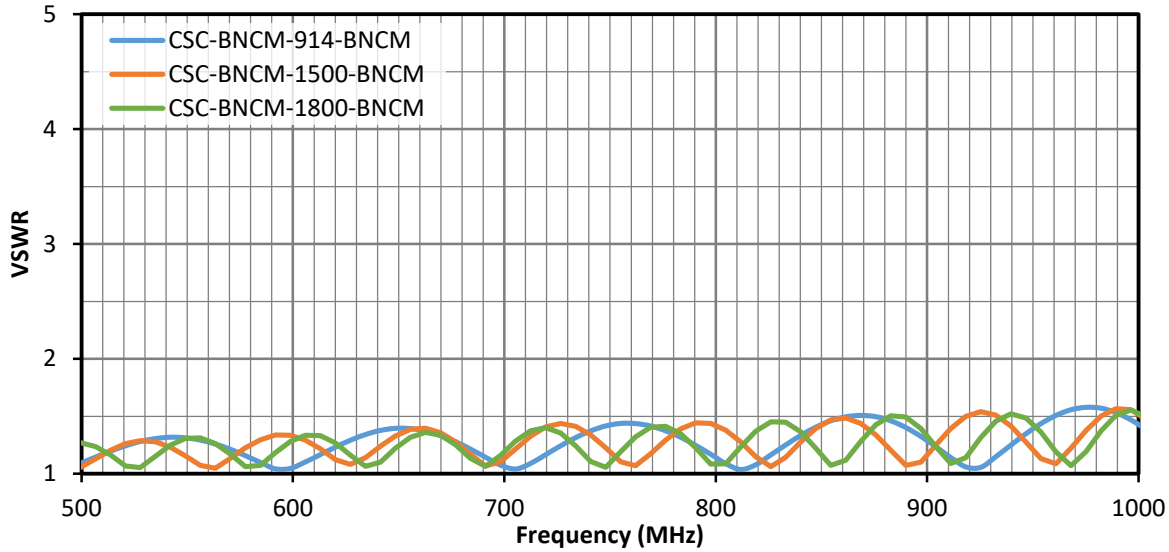

Figure 4. VSWR for the CSC-BNCM-ccc-BNCM Cable Assemblies

Packaging Information

The CSC-BNCM-ccc-BNCM cable assembly is packaged in a clear plastic bag, in quantities of 10. Distribution channels may offer alternative packaging options.

Cable Assembly Definitions and Useful Formulas

VSWR - Voltage Standing Wave Ratio. VSWR is a unitless ratio that describes how efficiently power is transmitted through the cable assembly. A lower VSWR value indicates better performance at a given frequency. VSWR is easily derived from Return Loss.

$$\mathrm{VSWR} = \frac{10^{\left[\frac{\mathrm{Return\ \ Loss}}{20}\right]} + 1}{10^{\left[\frac{\mathrm{Return\ \ Loss}}{20}\right]} - 1}$$

Insertion Loss - The loss of signal power (gain) resulting from the insertion of a device in a transmission line. Insertion loss can be derived from the power transmitted to the load before the insertion of the component P_T and the power transmitted to the load after the insertion of the component P_R.

$$Insertion\ Loss\ (\mathrm{dB}) = 10 \log_{10} \frac{P_T}{P_R}$$

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