

## Product Specification (L-4.5CHD FRNC)

Canare Electric Co., Ltd

**1. Scope** This product specification covers the performance of the 75Ω Coaxial cable.

**2. General Specifications**

(1) **Product Name** 75Ω Coaxial Cable

(2) **Model Name** L-4.5CHD FRNC

(3) **Construction and Appearance** As shown in Fig.1 and Table 1

Fig. 1

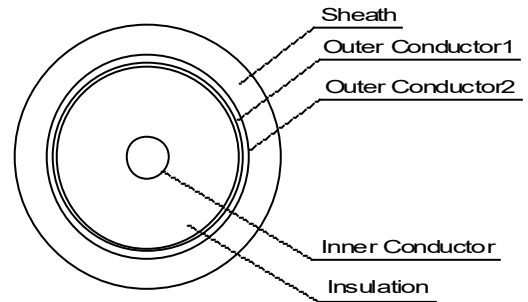


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	1/1.02A
	Nom. Cross Section Area (mm <sup>2</sup> )	0.82
	Outer Diameter (mm)	1.02
Insulation	Thickness (mm)	1.78
	Outer Diameter (mm)	4.57
Outer Conductor 1	Thickness (mm)	0.07
	Outer Diameter (mm)	4.7
Outer Conductor 2	Construction (carr/end/mm)	16/ 9/0.15TA
	Pitch (mm)	<= 33
	Outer Diameter (mm)	5.3
Sheath	Thickness (mm)	0.9
	Color	BLK. RED. ORN. YEL. GRN. BLU. GRY. WHT. BRN. PPL. Custom colors available
Sheath	Marking	12G-SDI 75 Ohm Coaxial Cable L-4.5CHD-FRNC Euroclass Cca s1a,d1,a1 LSZH-FR CANARE (XXXXX) MADE IN ITALY "Meter marking"
		(xxxxx = batch of production)
Outer Diameter (mm)	7.0	

(4) **Weight** Approx. 6.8kg / 100m

**3. Rating, Standard****(1) Rated Voltage** AC 60Vrms**(2) Temperature Range** -20°C to +75°C**(3) Applicable Specifications** Euroclass Cca s1a, d1, a1 (EN 13501-6:2018)**4. Electrical Characteristics**

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 23.3\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 9.9\Omega/\text{km}$ (20°C)	JIS C 3005
Insulation Resistance		$\geq 1000\text{M}\Omega \times \text{km}$	JIS C 3005
Voltage Proof		AC1000V 1minute Not Breakdown	JIS C 3005
Characteristic Impedance		75±3Ω	ANSI/SCTE 68 2008
Nominal Capacitance		53nF/km (1kHz)	JIS C 3502
Nominal Attenuation		10MHz: 2.3dB/100m 30MHz: 3.7dB/100m 72MHz: 5.4dB/100m 88MHz: 6.0dB/100m 135MHz: 7.2dB/100m 180MHz: 8.3dB/100m 270MHz: 10.2dB/100m 750MHz: 17.4dB/100m 1.3GHz: 23.2dB/100m 1.5GHz: 25.1dB/100m 2.0GHz: 29.3dB/100m 2.5GHz: 33.0dB/100m 3.0GHz: 36.5dB/100m 6.0GHz: 53.6dB/100m	JIS C 3502

**5. Mechanical Characteristics**

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	$\geq 12.0 \text{ MPa}$	JIS C 3005
	Elongation	$\geq 220 \%$	JIS C 3005
Maximum pulling force		$\leq 56 \text{ N}$	-
Permission bend radius		On / after installation finished: More than 6 times of the cable O.D. Process of wiring: More than 15 times of the cable O.D.	-

**6. Environmental Characteristics**

Item	Performance	Technical specification
Flame Retardance	Reaction to fire: Class Cca s1a, d1, a1	Test done in accordance with EN 13501-6:2018 (EN 60332-1-2, EN 50399, EN 61034-2, EN 60754-2)
Dangerous substances	None	EU Directive 2011/65 (RoHS 2)

**Note:** Testing must be performed under standard conditions set down in "JIS C 60068-1 General Environmental Testing Rules (Electric/Electronics)."

**Standard Conditions:** Unless otherwise specified, all tests and measurements should be performed within a normal temperature range of 15-35°C, a relative humidity of 25-75%, and an atmospheric pressure of 86-106kPa.