

Product Specification (L-4.5CHD)

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

Fig. 1

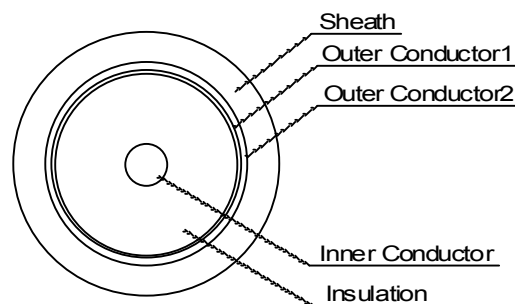


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	1/1.02A
	Nom. Cross Section Area (mm ²)	0.85
	Overall Diameter (mm)	1.02
Insulation	Thickness (mm)	1.78
	Overall Diameter (mm)	4.57
Outer Conductor 1	Thickness (mm)	0.07
	Overall Diameter (mm)	4.7
Outer Conductor 2	Construction (carr/end/mm)	24/ 6/0.14TA
	Pitch (mm)	<= 35
	Overall Diameter (mm)	5.3
Sheath	Thickness (mm)	0.9
	Color	Blk. Red. Orn. Yel. Grn. Blu. Gry. Wht. Brn. Ppl. Custom colors available
	Marking	75Ω Coaxial Cable L-4.5CHD CANARE <Year Code> MADE IN JAPAN E316792 (UL) CMR 75°C 18AWG OR C(UL) CMR 75°C 18AWG
Overall Diameter (mm)	7.0	

(4) **Weight** Approx. 6.2kg / 100m

(5) **Package** 100m, 200m: Coil
300m : Spool
Over 390m: Wooden reel

3. Rating, Standard(1) **Rated Voltage** AC 60Vrms(2) **Temperature Range** -20°C ~ +75°C(3) **Applicable Specifications** UL Type CMR**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	$\geq 1000\text{M}\Omega \cdot \text{km}$	JIS C 3005	
Voltage Proof	AC1000V 1minute Not Breakdown	JIS C 3005	
Characteristic Impedance	$75\pm 3\Omega$ (10MHz)	JIS C 3502	
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	JIS C 3502	

5. Mechanical Characteristics

Item	Standard Value	Test Method	
Tensile properties of Sheath	Tensile strength	≥ 13.8 Mpa	JIS C 3005
	Elongation	≥ 220 %	JIS C 3005
The permission tension	≤ 56 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. Environment Characteristics

Item	Standard Value	Test Method
Flame Retardance	Flame must extinguish naturally within 60 seconds.	Perform inclination test according to JIS C 3005.
	The temperature of thermocouple is recorded every 10s at 12ft. (3.66m), and must not exceed 454.4°C. The flame sptead must not exceed 12ft. (3.66m).	The flame test specified in UL1666.

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.