

Product Specification (L-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-5CHD

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

Fig. 1

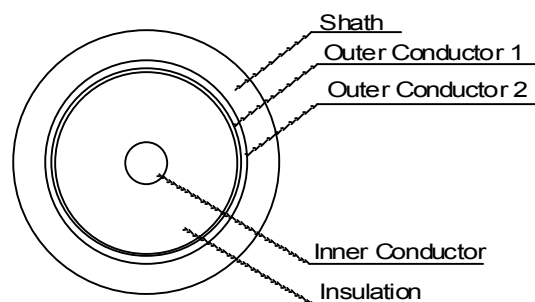


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	1/1.20A
	Nom. Cross Section Area (mm ²)	1.13
	Overall Diameter (mm)	1.20
Insulation	Thickness (mm)	1.85
	Overall Diameter (mm)	4.90
Outer Conductor 1	Thickness (mm)	0.07
	Overall Diameter (mm)	5.1
Outer Conductor 2	Construction (carr/end/mm)	24/ 7/0.14TA
	Pitch (mm)	<= 45
	Overall Diameter (mm)	5.7
Sheath	Thickness (mm)	1.0
	Color	Blk. Red. Orn. Yel. Grn. Blu. Gry. Wht. Brn. Ppl. Custom colors available
Sheath	Marking	UHDTV-SDI 75Ω Coaxial Cable L-5CHD CANARE <Year Code> MADE IN JAPAN E316792 (UL) CMR 75°C 17AWG OR C(UL) CMR 75°C 17AWG
	Overall Diameter (mm)	7.7

(4) **Weight** Approx. 7.4kg/100m

(5) **Package** 100m, 200m: Coil

300m: Spool

Over 330m: Wooden reel

3. Rating, Standard

- (1) **Rated Voltage** AC 60Vrms
 (2) **Temperature Range** -20°C ~ +75°C
 (3) **Applicable Specification** UL Type CMR

4. Electrical Characteristics

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 16.1\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 8.2\Omega/\text{km}$ (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: 2.1dB/100m 30MHz: 3.3dB/100m 72MHz: 4.9dB/100m 88MHz: 5.3dB/100m 135MHz: 6.5dB/100m 180MHz: 7.4dB/100m 270MHz: 9.1dB/100m 750MHz: 15.6dB/100m 1.3GHz: 20.8dB/100m 1.5GHz: 22.5dB/100m 2.0GHz: 26.3dB/100m 2.5GHz: 29.7dB/100m 3.0GHz: 32.8dB/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		≤ 77 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 spread 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.