

Product Specification (L-2.5CHD)

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-2.5CHD

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

Fig. 1

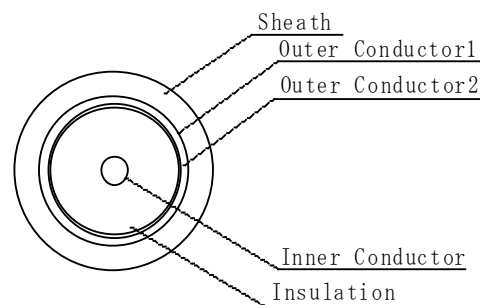


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	1/0.59A
	Nom. Cross Section Area (mm ²)	0.27
	Outer Diameter (mm)	0.59
Insulation	Thickness (mm)	1.00
	Outer Diameter (mm)	2.59
Outer Conductor 1	Thickness (mm)	0.06
	Outer Diameter (mm)	2.7
Outer Conductor 2	Construction (carr/end/mm)	16/ 7/0.12TA
	Pitch (mm)	<= 24
	Outer Diameter (mm)	3.2
Sheath	Thickness (mm)	0.5
	Color	BLK RED YEL GRN BLU GRY WHT Custom colors available
	Marking	12G-SDI / CXP-12 75Ω Coaxial Cable L-2.5CHD CANARE <Year Code> MADE IN JAPAN E316792 (UL) CMR 75°C 23AWG OR C(UL) CMR 75°C 23AWG
Outer Diameter (mm)	7.7	

(4) **Weight** Approx. 2.6kg / 100m

(5) **Package** 100m, 200m: Coil
500m: Spool
1000m: Wooden reel

3. Rating, Standard**(1) Rated Voltage** AC 60Vrms**(2) Temperature Range** -20 ~ +75°C**(3) Applicable Specifications** UL Type CMR**4. Electrical Characteristics**

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 66.9\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 16.9\Omega/\text{km}$ (20°C)	JIS C 3005
Insulation Resistance		$\geq 1000\text{M}\Omega\text{-km}$	JIS C 3005
Voltage Proof		AC1000V 1minute Not Breakdown	JIS C 3005
Characteristic Impedance		$75\pm 3\Omega$	ANSI/SCTE 68 2008
Nominal Capacitance		54.5nF/km (1kHz)	JIS C 3005
Nominal Attenuation		10MHz: 4.1dB/100m 30MHz: 6.5dB/100m HDTV 72MHz: 9.5dB/100m D2 NTSC 88MHz: 10.4dB/100m D2_PAL 90MHz: 10.5dB/100m 135MHz: 12.6dB/100m D1 180MHz: 14.5dB/100m 270MHz: 17.8dB/100m 440mhz: 22.9dB/100m 750MHz: 30.2dB/100m HD-SDI 770MHz: 30.4dB/100m 1.3GHz: 40.0dB/100m 1.5GHz: 43.1dB/100m 3G-SDI 1.5625GHz: 44.0dB/100m CXP-3 2.4GHz: 55.1dB/100m 3.0GHz: 62.0dB/100m 6G-SDI 3.125GHz: 63.4dB/100m CXP-6 6.0GHz: 91.7dB/100m 12G-SDI 6.25GHz: 93.8dB/100m CXP-12	JIS C 3502

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	≥ 13.8 MPa	JIS C 3005
	Elongation	≥ 150 %	JIS C 3005
The permission tension		≤ 18 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.