

Product Specification (L-6CHD)

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-6CHD

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

Fig. 1

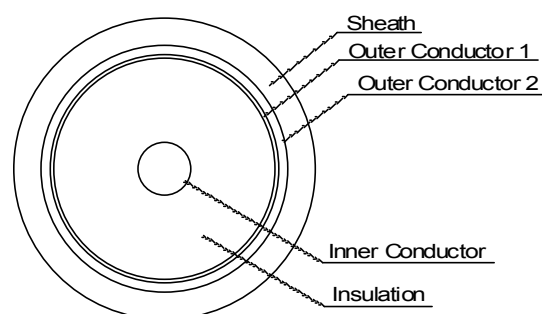


Table 1

Item		Standard Value	Note
No. of Conductor		1	
Inner Conductor	Construction (qty/mm)	1/1.40A	Annealed Copper 16AWG
	Nom. Cross Section Area (mm ²)	1.54	
	Overall Diameter (mm)	1.40	
Insulation	Thickness (mm)	2.35	Foamed Polyethylene
	Overall Diameter (mm)	6.10	
Outer Conductor 1	Thickness (mm)	0.07	Aluminium Laminated Tape
	Overall Diameter (mm)	6.3	
Outer Conductor 2	Construction (carr/end/mm)	24/ 8/0.14TA	Tinned Annealed Copper Coverage >=92%
	Pitch (mm)	<= 40	
	Overall Diameter (mm)	6.9	
Sheath	Thickness (mm)	1.0	PVC
	Color	Blk. Brn. Red. Yel. Grn. Blu. Ppl. Pnk. Cstom colors available	
	Marking	UHDTV-SDI 75Ω Coaxial Cable L-6CHD CANARE <Year Code> MADE IN JAPAN	
Overall Diameter (mm)		8.9	

(4) **Weight** Approx. 9.0kg / 100m

(5) **Package** 100m, 200m, 300m: Coil
Over 340m: Wooden reel

3. Rating, Standard**(1) Rated Voltage** AC 60Vrms**(2) Temperature Range** -30°C ~ +60°C**4. Electrical Characteristics**

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 11.8\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 7.7\Omega/\text{km}$ (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: 1.7dB/100m 30MHz: 2.7dB/100m 72MHz: 3.9dB/100m 88MHz: 4.3dB/100m 135MHz: 5.2dB/100m 180MHz: 6.0dB/100m 270MHz: 7.4dB/100m 750MHz: 12.9dB/100m 1.3GHz: 17.5dB/100m 1.5GHz: 19.0dB/100m 2.0GHz: 22.4dB/100m 2.5GHz: 25.4dB/100m 3.0GHz: 28.3dB/100m	JIS C 3502

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	≥ 11.0 Mpa	JIS C 3005
	Elongation	≥ 220 %	JIS C 3005
The permission tension		≤ 106 N	-
Permission bend radius		On/after installation finished: More than 6 times of the cable O.D. Process of wiring: More than 15 time of the cable O.D.	-

6. Environment Characteristics

Item	Standard Value	Test Method
Migration	No deformity, discoloration or other flaws must be found on ABS resin plates during visual inspection.	Test condition: Temperature: 50 \pm 1°C Duration: 24 \pm 1hour (humidity not designated) Load: 500 \pm 25g
Flame Retardance	A vertical specimen of an insulated conductor shall not flame longer than 60s following five 16s applications of flame.	The VW-1 flame test specified in UL1581.
	Flame must extinguish naturally within 60 seconds.	Perform inclination test according to JIS C 3005.

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.