

Product Specification (L-7CHD)

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-7CHD

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

Fig. 1

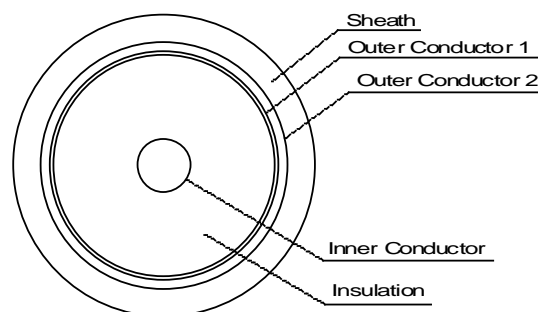


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	1/1.80A
	Nom. Cross Section Area (mm ²)	2.54
	Overall Diameter (mm)	1.80
Insulation	Thickness (mm)	2.75
	Overall Diameter (mm)	7.30
Outer Conductor 1	Thickness (mm)	0.07
	Overall Diameter (mm)	7.5
Outer Conductor 2	Construction (carr/end/mm)	24/ 8/0.16TA
	Pitch (mm)	<= 40
	Overall Diameter (mm)	8.2
Sheath	Thickness (mm)	1.0
	Color	Blk. Brn. Red. Yel. Grn. Blu. Ppl. Pnk. Custom colors available
	Marking	UHDTV-SDI 75Ω Coaxial Cable L-7CHD CANARE <Year Code> MADE IN JAPAN
Outer Diameter (mm)	10.2	

(4) **Weight** Approx. 13.0kg/100m

(5) **Package** 100m, 200m: Coil
Over 210m: Wooden reel

2. Rating, Standard

(1) **Rated Voltage** AC 60Vrms

(2) **Temperature Range** -30°C ~ +60°C

3. Electrical Characteristics

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 7.1\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 6.1\Omega/\text{km}$ (20°C)	JIS C 3005
Insulation Resistance		$\Rightarrow 1000\text{M}\Omega\text{-km}$	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: 1.4dB/100m 30MHz: 2.3dB/100m 72MHz: 3.3dB/100m 88MHz: 3.6dB/100m 135MHz: 4.4dB/100m 180MHz: 5.1dB/100m 270MHz: 6.3dB/100m 750MHz: 10.9dB/100m 1.3GHz: 14.7dB/100m 1.5GHz: 15.9dB/100m 2.0GHz: 18.7dB/100m 2.5GHz: 21.2dB/100m 3.0GHz: 23.5dB/100m	JIS C 3502

4. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	$\Rightarrow 11.0$ Mpa	JIS C 3005
	Elongation	$\Rightarrow 220$ %	JIS C 3005
The permission tension		≤ 175 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.	-

5. 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+/-1°C Duration:24+/-1hour (humidity not designated) Load:500+/-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.