

Product Specification (L-8CUHD)

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-8CUHD

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

Fig. 1

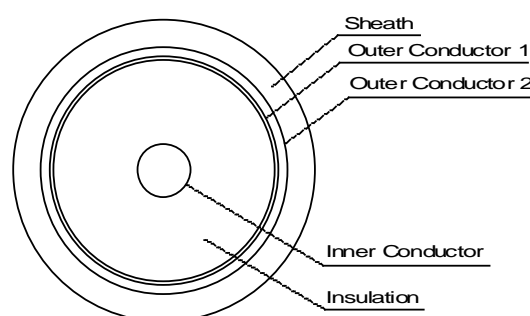


Table 1

Item		Standard Value	Note
No. of Conductor		1	
Inner Conductor	Construction (qty/mm)	1/2.00A	Annealed Copper 13AWG
	Nom. Cross Section Area (mm ²)	3.14	
	Overall Diameter (mm)	2.00	
Insulation	Thickness (mm)	3.13	Foamed Polyethylene
	Overall Diameter (mm)	8.26	
Outer Conductor 1	Thickness (mm)	0.04	Copper Laminated Tape
	Overall Diameter (mm)	8.3	
Outer Conductor 2	Construction (carr/end/mm)	24/ 8/0.16TA	Tinned Annealed Copper Coverage >=90%
	Pitch (mm)	<= 40	
	Overall Diameter (mm)	9.0	
Sheath	Thickness (mm)	1.05	PVC
	Color	Blk. Brn. Red. Orn. Yel. Grn. Blu. Ppl. Gry. Wht Cstom colors available	
	Marking	UHDTV-SDI 75Ω Coaxial Cable L-8CUHD CANARE <Year Code> MADE IN JAPAN E316792 (UL) CMR 75°C 13AWG OR C(UL) CMR 75°C 13AWG	
Overall Diameter (mm)		11.1	—

(4) **Weight** Approx. 14.1kg/100m

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

Over 200m: Wooden reel

3. Rating, Standard**(1) Rated Voltage** AC 60Vrms**(2) Temperature Range** -30°C ~ +75°C**(3) Applicable Specifications** UL Type CMR**4. Electrical Characteristics**

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 5.8\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 6.3\Omega/\text{km}$ (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		52nF/km (1kHz)	JIS C 3502
Nominal Attenuation		10MHz: 1.2dB/100m 30MHz: 2.0dB/100m 72MHz: 2.9dB/100m 88MHz: 3.2dB/100m 135MHz: 3.8dB/100m 180MHz: 4.4dB/100m 270MHz: 5.4dB/100m 750MHz: 9.1dB/100m 1.3GHz: 12.2dB/100m 1.5GHz: 13.2dB/100m 2.0GHz: 15.3dB/100m 2.5GHz: 17.9dB/100m 3.0GHz: 19.1dB/100m 6.0GHz: 27.9dB/100m	JIS C 3502

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	$\geq 12.8 \text{ Mpa}$	JIS C 3005
	Elongation	$\geq 220 \%$	JIS C 3005
The permission tension		$\leq 216 \text{ N}$	-
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
Flame Retardance	Flame must extinguish naturally within 60 secods.	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.