

Product Specification (L-5.5CUHD)

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-5.5CUHD

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

Fig. 1

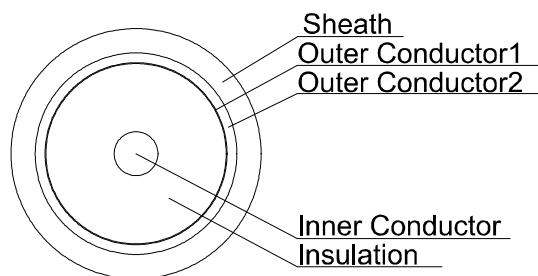


Table 1

Item		Standard Value	Note
No. of Conductor		1	
Inner Conductor	Construction (qty/mm)	1/1.35A	Annealed Copper 16AWG
	Nom. Cross Section Area (mm ²)	1.43	
	Overall Diameter (mm)	1.35	
Insulation	Thickness (mm)	2.10	Foamed Polyethylene
	Overall Diameter (mm)	5.55	
Outer Conductor 1	Thickness (mm)	0.04	Copper Laminated Tape
	Overall Diameter (mm)	5.6	
Outer Conductor 2	Construction (carr/end/mm)	24/ 8/0.12TA	Tinned Annealed Copper Coverage >=91%
	Pitch (mm)	<= 37	
	Overall Diameter (mm)	6.2	
Sheath	Thickness (mm)	0.75	Flame Retardant Polyvinyl Chloride
	Color	BLK RED ORG YEL GRN BLU GRY WHT PUR Custom colors available	
	Marking	12G-SDI 75Ω Coaxial Cable L-5.5CUHD CANARE <Year Code> MADE IN JAPAN <Length>	
Overall Diameter (mm)		7.7	

(4) **Weight** Approx. 7.1kg / 100m

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

3. Rating, Standard(1) **Rated Voltage** AC 60Vrms(2) **Temperature Range** -20 ~ +75°C(3) **Standard** JIS C 3502**4. Electrical Characteristics**

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 12.8\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 10.3\Omega/\text{km}$ (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±3Ω	ANSI/SCTE 68 2008
Nominal Capacitance		52nF/km (1kHz)	JIS C 3005
Nominal Attenuation		10MHz: 1.6dB/100m 30MHz: 2.6dB/100m HDTV 72MHz: 3.9dB/100m D2 NTSC 88MHz: 4.3dB/100m D2 PAL 135MHz: 5.3dB/100m D1 180MHz: 6.1dB/100m 270MHz: 7.5dB/100m 750MHz: 12.9dB/100m HD-SDI 1.3GHz: 17.1dB/100m 1.5GHz: 18.6dB/100m 3G-SDI 2.0GHz: 21.6dB/100m 2.5GHz: 24.3dB/100m 3.0GHz: 26.8dB/100m 6G-SDI 6.0GHz: 39.1dB/100m 12G-SDI	JIS C 3502

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	$\geq 10.0 \text{ MPa}$	JIS C 3005
	Elongation	$\geq 190 \%$	JIS C 3005
The permission tension		$\geq 98 \text{ N}$	
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..
	A vertical specimen of an insulated conductor shall not flame longer than 60s following five 15s applications of flame.	The VW-1 frame test specified in UL1581.

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.