

## 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

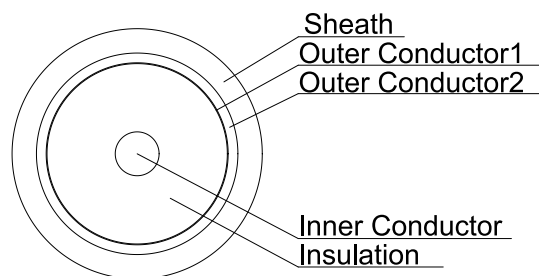


Table 1

Item		Standard Value	Note
No. of Conductor		1	
Inner Conductor	Construction (qty/mm)	1/1.35A	Annealed Copper
	Nom. Cross Section Area (mm <sup>2</sup> )	1.43	16AWG
	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
	Overall Diameter (mm)	5.6	Tape
Outer Conductor 2	Construction (carr/end/mm)	24/ 8/0.12TA	Tinned Annealed
	Pitch (mm)	<= 37	Copper
	Overall Diameter (mm)	6.2	Coverage >=91%
Sheath	Thickness (mm)	0.75	Flame Retardant
	Color	BLK BRN RED ORN YEL GRN BLU GRY WHT PPL Custom colors available	Polyvinyl Chloride
	Marking	12G-SDI 75Ω Coaxial Cable L-5.5CUHD CANARE <Year Code> MADE IN JAPAN E316792 (UL) CMR 75°C 16AWG OR C(UL) CMR 75°C 16AWG <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) Applicable Specifications** UL Type CMR**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		$75\pm 3\Omega$	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	$\geq 12.8 \text{ MPa}$	JIS C 3005
	Elongation	$\geq 220 \%$	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..
	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.