

Product Specification (L-3.3CUHD)

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-3.3CUHD

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

Fig. 1

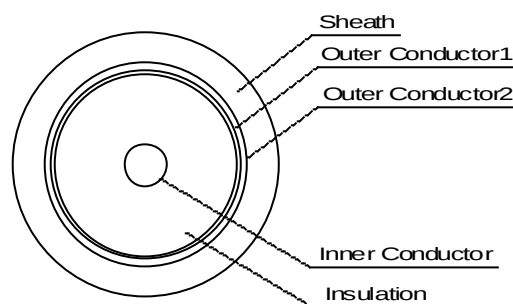


Table 1

Item		Standard Value	Note
No. of Conductor		1	
Inner Conductor	Construction (qty/mm)	1/0.75A	Annealed Copper 21AWG
	Nom. Cross Section Area (mm ²)	0.44	
	Overall Diameter (mm)	0.75	
Insulation	Thickness (mm)	1.27	Foamed Polyethylene
	Overall Diameter (mm)	3.3	
Outer Conductor 1	Thickness (mm)	0.04	Copper Laminated Tape
	Overall Diameter (mm)	3.4	
Outer Conductor 2	Construction (carr/end/mm)	16/ 8/0.12TA	Tinned Annealed Copper Coverage >=91%
	Pitch (mm)	<= 28	
	Overall Diameter (mm)	3.9	
Sheath	Thickness (mm)	0.8	Flame Retardant Polyvinyl Chloride
	Color	BLK. RED. ORN. YEL. GRN. BLU. GRY. WHT. PPL. BRN. Custom colors available	
	Marking	12G-SDI 75Ω Coaxial Cable L-3.3CUHD CANARE <Year Code> MADE IN JAPAN E316792 (UL)CMR 75℃ 16AWG OR C(UL)CMR 75℃ 21AWG <Length>	
Overall Diameter (mm)		5.5	

(4) **Weight** Approx. 4.1kg/100m

(5) **Package** 100m, 200m: Coil
300m : Spool
600m : Wooden spool
Over 610m Wooden reel

3. Rating, Standard**(1) Rated Voltage** AC 60Vrms**(2) Temperature Range** -20°C ~ +75°C**(3) Applicable Specifications** UL Type CMR**4. Electrical Characteristics**

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 41.4\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 14.9\Omega/\text{km}$ (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		55nF/km (1kHz)	JIS C 3502
Nominal Attenuation		10MHz: 2.8dB/100m 30MHz: 4.4dB/100m HDTV 72MHz: 6.5dB/100m D2 NTSC 88MHz: 7.1dB/100m D2_PAL 135MHz: 9.8dB/100m D1 180MHz: 11.3dB/100m 270MHz: 13.9dB/100m 750MHz: 23.4dB/100m HD-SDI 1.3GHz: 30.9dB/100m 1.5GHz: 33.3dB/100m 3G-SDI 2.0GHz: 38.6dB/100m 2.5GHz: 43.4dB/100m 3.0GHz: 47.7dB/100m 6G-SDI 6.0GHz: 68.5dB/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		$\leq 30 \text{ N}$	-
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.