

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

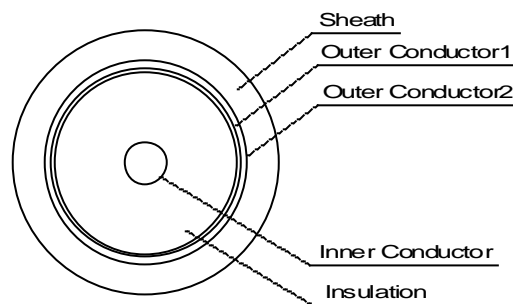


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	1/0.75A
	Nom. Cross Section Area (mm ²)	0.44
	Overall Diameter (mm)	0.75
Insulation	Thickness (mm)	1.27
	Overall Diameter (mm)	3.3
Outer Conductor 1	Thickness (mm)	0.04
	Overall Diameter (mm)	3.4
Outer Conductor 2	Construction (carr/end/mm)	16/ 8/0.12TA
	Pitch (mm)	<= 28
	Overall Diameter (mm)	3.9
Sheath	Thickness (mm)	0.8
	Color	BLK. RED. ORN. YEL. GRN. BLU. GRY. WHT. PPL. BRN. Custom colors available
Sheath	Marking	12G-SDI / CXP-12 75Ω Coaxial Cable L-3.3CUHD CANARE <Year Code> MADE IN JAPAN E316792 (UL)CMR 75°C 16AWG OR C(UL)CMR 75°C 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		$54.5\text{nF}/\text{km}$ (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: 30.9 dB/100m 1.5GHz: 33.3 dB/100m 3G-SDI 1.5625GHz: 34.0dB/100m CXP-3 2.0GHz: 38.6dB/100m 2.5GHz: 43.4dB/100m 3.0GHz: 47.7dB/100m 6G-SDI 3.1250GHz: 48.7dB/100m CXP-6 6.0GHz: 68.5dB/100m 12G-SDI 6.25GHz: 70.0dB/100m CXP-12	JIS C 3502

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	$\geq 13.8 \text{ MPa}$	JIS C 3005
	Elongation	$\geq 230 \%$	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.