

Product Specification (L-2.5CHWS)

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-2.5CHWS

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

Fig. 1

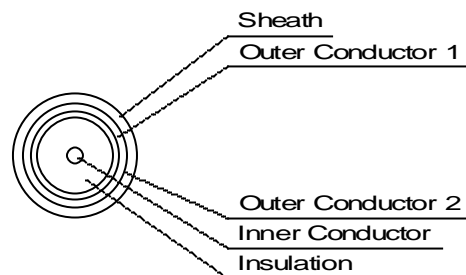


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	7/0.20A
	Nom. Cross Section Area (mm ²)	0.22
	Outer Diameter (mm)	0.60
Insulation	Thickness (mm)	1.00
	Outer Diameter (mm)	2.60
Outer Conductor 1	Construction (carr/end/mm)	16/ 8/0.10TA
	Pitch (mm)	<= 20
	Outer Diameter (mm)	3.0
Outer Conductor 2	Construction (carr/end/mm)	16/ 9/0.10TA
	Pitch (mm)	<= 25
	Outer Diameter (mm)	3.5
Sheath	Thickness (mm)	0.3
	Color	BLK RED YEL GRN BLU PPL BRN Custom colors available
	Marking	UHDTV-SDI 75Ω Coaxial Cable L-2.5CHWS CANARE <Year Code> MADE IN JAPAN
Outer Diameter (mm)	4.2	

(4) **Weight** Approx. 3.2kg/100m

(5) **Package** 100m, 200m: Coil
500m: Spool

2. Rating, Standard**(1) Rated Voltage** AC 60Vrms**(2) Temperature Range** -30°C ~ +60°C**3. Electrical Characteristics**

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 84.9\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 10.2\Omega/\text{km}$ (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		53nF/km (1kHz)	JIS C 3005
Nominal Attenuation		10MHz: 4.0dB/100m 30MHz: 7.0dB/100m 72MHz: 10.9dB/100m 88MHz: 12.1dB/100m 135MHz: 15.1dB/100m 180MHz: 17.5dB/100m 270MHz: 21.7dB/100m 750MHz: 37.4dB/100m 1.3GHz: 50.5dB/100m 1.5GHz: 54.7dB/100m 2.0GHz: 64.3dB/100m 2.5GHz: 73.0dB/100m 3.0GHz: 81.0dB/100m 6.0GHz: 121.9dB/100m	JIS C 3502

4. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	≥ 10.0 Mpa	JIS C 3005
	Elongation	≥ 100 %	JIS C 3005
The permission tension		≤ 15 N	-
Permission bend radius		More than 6 times of the cable O.D.	-

5. Environment Characteristics

Item	Standard Value	Test Method
Migration	No deformity, discoloration or other flaws must be found on ABS resin plates during visual inspection.	Test condition: Temperature:50+/-1°C Duration:24+/-1hour (humidity not designated) Load:500+/-25g
Flame Retardance	Flame must extinguish naturally within 60 seconds.	Perform inclination test according to JIS C 3005.

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.