

## Product Specification (L-4.5CHWS)

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-4.5CHWS

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

Fig. 1

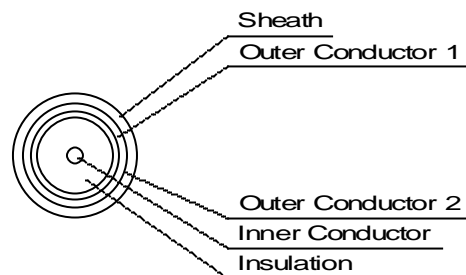


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	7/0.34A
	Nom. Cross Section Area (mm <sup>2</sup> )	0.64
	Outer Diameter (mm)	1.02
Insulation	Thickness (mm)	1.78
	Outer Diameter (mm)	4.57
Outer Conductor 1	Construction (carr/end/mm)	24/ 8/0.10A
	Pitch (mm)	<= 25
	Outer Diameter (mm)	5.0
Outer Conductor 2	Construction (carr/end/mm)	24/ 9/0.10A
	Pitch (mm)	<= 25
	Outer Diameter (mm)	5.5
Sheath	Thickness (mm)	0.85
	Color	BLK,BRN,RED,ORN, YEL,GRN,BLU,PPL, GRY,WHT,PNK. Custom colors available
	Marking	UHDTV-SDI 75Ω Coaxial Cable L-4.5CHWS CANARE <Year Code> MADE IN JAPAN
Outer Diameter (mm)	7.2	

(4) **Weight** Approx. 6.6kg/100m

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

Over 210m: Wooden reel

**2. Rating, Standard**

- (1) **Rated Voltage** AC 60Vrms  
 (2) **Temperature Range** -30°C to +60°C

**3. Electrical Characteristics**

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 32.7\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 7.5\Omega/\text{km}$ (20°C)	JIS C 3005
Insulation Resistance		$\geq 1000\text{M}\Omega\text{-km}$	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: 2.5dB/100m 30MHz: 4.3dB/100m 72MHz: 6.7dB/100m 88MHz: 7.4dB/100m 135MHz: 9.3dB/100m 180MHz: 10.7dB/100m 270MHz: 13.3dB/100m 750MHz: 16.7dB/100m 1.3GHz: 30.8dB/100m 1.5GHz: 33.3dB/100m 2.0GHz: 39.1dB/100m 2.5GHz: 44.3dB/100m 3.0GHz: 49.1dB/100m	JIS C 3502

**4. Mechanical Characteristics**

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	$\geq 14.0$ MPa	JIS C 3005
	Elongation	$\geq 230$ %	JIS C 3005
Allowable tension		$\leq 44$ N	-
Allowable bending 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.