

## Product Specification (L-5CFW)

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-5CFW

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

Fig. 1

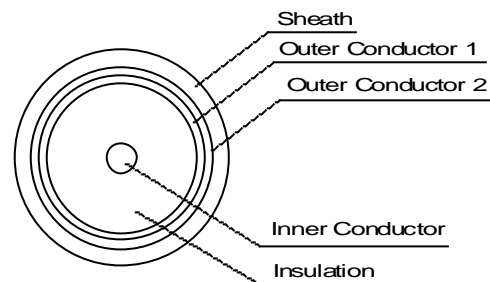


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	1/1.05A
	Nom. Cross Section Area (mm <sup>2</sup> )	0.87
	Outer Diameter (mm)	1.05
Insulation	Thickness (mm)	1.98
	Outer Diameter (mm)	5.00
Outer Conductor 1	Construction (carr/end/mm)	24/ 7/0.12A
	Pitch (mm)	<= 25
Outer Conductor 2	Construction (carr/end/mm)	24/ 9/0.12A
	Pitch (mm)	<= 40
	Outer Diameter (mm)	6.1
Sheath	Thickness (mm)	0.8
	Color	Blk. Red. Orn. Yel. Grn. Blu. Ppl. Gry. Wht. Brn. Pnk. Custom colors available
	Marking	UHDTV-SDI 75Ω Coaxial Cable L-5CFW CANARE <Year Code> MADE IN JAPAN
Outer Diameter (mm)	7.7	

(4) **Weight** Approx. 8.1kg/100m

(5) **Package** 100m, 200m: Coil  
300m: Spool  
Over 310m: Wooden reel

**3. Rating, Standard**

(1) Rated Voltage AC 60Vrms

(2) Temperature Range -30°C ~ +60°C

**4. Electrical Characteristics**

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 21.1\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 5.0\Omega/\text{km}$ (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		55nF/km (1kHz)	JIS C 3005
Nominal Attenuation		10MHz: 2.1dB/100m 30MHz: 3.6dB/100m 72MHz: 5.6dB/100m 88MHz: 6.2dB/100m 135MHz: 7.8dB/100m 180MHz: 9.0dB/100m 270MHz: 11.2dB/100m 750MHz: 19.4dB/100m 1.3GHz: 26.2dB/100m 1.5GHz: 28.4dB/100m 2.0GHz: 33.4dB/100m 2.5GHz: 38.0dB/100m 3.0GHz: 42.2dB/100m	JIS C 3502

**5. 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		$\leq 60$ N	-
Allowable bending 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.
Migration	No deformity, discoloration or other flaws must be found on ABS resin plates during visual inspection.	Test conditions: Temperature: $50\pm 1^\circ\text{C}$ Duration: $24\pm 1$ hours (humidity not designated) Load: $500\pm 25\text{g}$

**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.