

## Product Specification (L-7CFB)

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-7CFB

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

Fig. 1

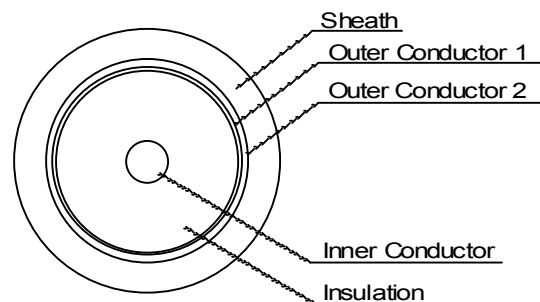


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	1/1.50A
	Nom. Cross Section Area (mm <sup>2</sup> )	1.77
	Overall Diameter (mm)	1.50
Insulation	Thickness (mm)	2.90
	Overall Diameter (mm)	7.30
Outer Conductor 1	Thickness (mm)	0.07
	Overall Diameter (mm)	7.5
Outer Conductor 2	Construction (carr/end/mm)	24/ 8/0.18TA
	Pitch (mm)	<= 45
	Overall Diameter (mm)	8.2
Sheath	Thickness (mm)	1.0
	Color	Black Custom colors available
	Marking	75Ω Coaxial Cable L-7CFB CANARE <Year Code> MADE IN JAPAN
Overall Diameter (mm)	10.2	

(4) **Weight** Approx. 13.0kg / 100m

(5) **Package** 100m: Coil  
Over 200m: Wooden reel

**3. Rating, Standard**

- (1) **Rated Voltage** AC 60Vrms  
 (2) **Temperature Range** -20°C ~ +60°C  
 (3) **Applicable Specification** JIS C 3502

**4. Electrical Characteristics**

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 10.3\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 4.7\Omega/\text{km}$ (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		55nF/km ( 1kHz)	JIS C 3502
Nominal Attenuation		10MHz: 1.6dB/100m 30MHz: 2.5dB/100m 72MHz: 3.8dB/100m 88MHz: 4.2dB/100m 135MHz: 5.1dB/100m 180MHz: 6.0dB/100m 270MHz: 7.5dB/100m 750MHz: 13.4dB/100m 1.3GHz: 18.8dB/100m 1.5GHz: 20.5dB/100m 2.0GHz: 24.6dB/100m 2.5GHz: 28.4dB/100m 3.0GHz: 32.0dB/100m	JIS C 3502

**5. Mechanical Characteristics**

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	$\geq 10.0$ Mpa	JIS C 3005
	Elongation	$\geq 200$ %	JIS C 3005
The permission tension		$\leq 122$ 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.
	A vertical specimen of an insulated conductor shall not flame longer than 60s following five 15s applications of flame.	The VW-1 flame test specified in UL1581.

**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.