

Product Specification (L-3CFB)

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

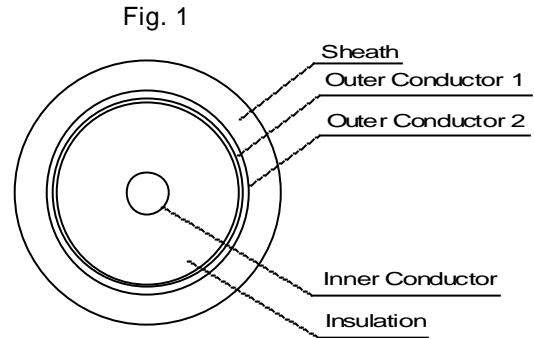


Table 1

Item		Standard Value	Note
No. of Conductor		1	
Inner Conductor	Construction (qty/mm)	1/0.65A	Annealed Copper
	Nom. Cross Section Area (mm ²)	0.33	22AWG
	Outer Diameter (mm)	0.65	
Insulation	Thickness (mm)	1.23	Foamed Polyethylene
	Outer Diameter (mm)	3.10	
Outer Conductor 1	Thickness (mm)	0.05	Aluminum Laminated Tape
	Outer Diameter (mm)	3.2	
Outer Conductor 2	Construction (carr/end/mm)	16/ 6/0.14TA	Tinned Annealed Copper Coverage >=91%
	Pitch (mm)	<= 20	
	Outer Diameter (mm)	3.8	
Sheath	Thickness (mm)	0.9	PVC
	Color	Blk. Red. Yel. Grn. Blu. Ppl. Gry. Wht. Custom colors available	
	Marking	75Ω Coaxial Cable L-3CFB CANARE <Year Code> MADE IN JAPAN	
Outer Diameter (mm)		5.5	

(4) **Weight** Approx. 4.0kg/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 to +60°C

4. Electrical Characteristics

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 55.1\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 15.8\Omega/\text{km}$ (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: 3.7dB/100m 30MHz: 5.9dB/100m 72MHz: 8.7dB/100m 88MHz: 9.5dB/100m 135MHz: 11.7dB/100m 180MHz: 13.5dB/100m 270MHz: 16.7dB/100m 750MHz: 29.1dB/100m 1.3GHz: 39.6dB/100m 1.5GHz: 43.0dB/100m 2.0GHz: 50.8dB/100m 2.5GHz: 57.9dB/100m 3.0GHz: 64.5dB/100m	JIS C 3502

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	≥ 10.0 MPa	JIS C 3005
	Elongation	≥ 190 %	JIS C 3005
Allowable tension		≤ 23 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.
	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.