

Product Specification (L-5DFB)

Canare Electric Co., Ltd

1. **Scope** This product specification covers the performance of the 50Ω Coaxial cable.

2. **General Specifications**

(1) **Product Name** 50Ω Coaxial Cable

(2) **Model Name** L-5DFB

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

Fig. 1

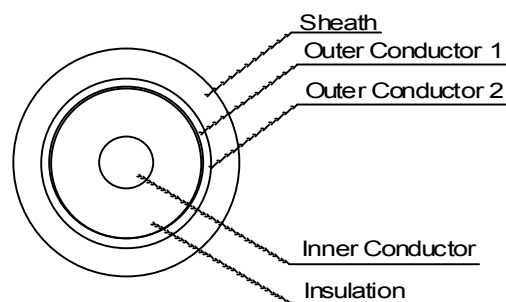


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	1/1.80A
	Nom. Cross Section Area (mm ²)	2.55
	Outer Diameter (mm)	1.80
Insulation	Thickness (mm)	1.60
	Overall Diameter (mm)	5.0
Outer Conductor 1	Thickness (mm)	0.05
	Outer Diameter (mm)	5.1
Outer Conductor 2	Construction (carr/end/mm)	24/ 7/0.14TA
	Pitch (mm)	<= 45
	Outer Diameter (mm)	5.7
Sheath	Thickness (mm)	1.0
	Color	Blk. Custom colors available
	Marking	50Ω Coaxial Cable L-5DFB CANARE <Year Code> MADE IN JAPAN
Outer Diameter (mm)	7.6	

(4) **Weight** Approx. 8.5kg / 100m

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

3. Rating, Standard

(1) Rated Voltage AC 60Vrms

(2) Temperature Range -20°C ~ +60°C

4. Electrical Characteristics

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 7.1\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 10.5\Omega/\text{km}$ (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		$50\pm 2\Omega$ (10MHz)	JIS C 3502
Nominal Capacitance		84nF/km (1kHz)	JIS C 3502
Nominal Attenuation		10MHz: 2.5dB/100m 130MHz: 7.5dB/100m 470MHz: 14.6dB/100m 600MHz: 16.8dB/100m 710MHz: 18.5dB/100m 714MHz: 18.5dB/100m 800MHz: 19.8dB/100m 1240MHz: 25.5dB/100m 1260MHz: 25.8dB/100m 1575MHz: 29.4dB/100m 1700MHz: 30.8dB/100m 2000MHz: 33.9dB/100m 2400MHz: 37.9dB/100m 2600MHz: 39.9dB/100m 3000MHz: 43.6dB/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	≥ 200 %	JIS C 3005
The permission tension		≤ 175 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.