

Product Specification (L-5D2W)

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-5D2W
- (3) **Construction and Appearance** As shown in Fig.1 and Table 1

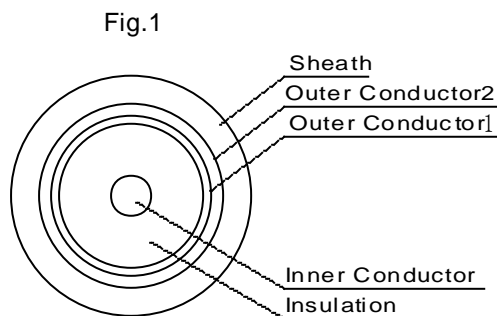


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	1/1.40A
	Nom. Cross Section Area (mm ²)	1.54
	Outer Diameter (mm)	1.40
Insulation	Thickness (mm)	1.70
	Outer Diameter (mm)	4.80
Outer Conductor 1	Construction (carr/end/mm)	24/ 7/0.14TA
	Pitch (mm)	<= 42
	Outer Diameter (mm)	5.4
Outer Conductor 2	Construction (carr/end/mm)	24/ 7/0.14TA
	Pitch (mm)	<= 26
	Outer Diameter (mm)	6.1
Sheath	Thickness (mm)	1.0
	Color	Gray Custom colors available
	Marking	50Ω Coaxial Cable L-5D2W CANARE <Year Code> MADE IN JAPAN
Outer Diameter (mm)	8.0	

(4) **Weight** Approx. 11kg / 100m

(5) **Package** 100m, 200m: Coil
300m: Spool
Over310m: Wooden reel

3. Rating, Standard

- (1) **Rated Voltage** AC 60Vrms
 (2) **Temperature Range** -25°C ~ +60°C
 (3) **Conformed standards** JIS C 3501

4. Electrical Characteristics

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 11.8\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 4.5\Omega/\text{km}$ (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 3501
Nominal Capacitance		$100\pm 4 \text{ nF}/\text{km}$ (1kHz)	JIS C 3501
Nominal Attenuation		10MHz: 2.5dB/100m 130MHz: 9.6dB/100m 470MHz: 19.6dB/100m 600MHz: 22.6dB/100m 710MHz: 25.0dB/100m 714MHz: 25.1dB/100m 800MHz: 26.8dB/100m 1240MHz: 35.0dB/100m 1260MHz: 35.3dB/100m 1575MHz: 40.5dB/100m 1700MHz: 42.5dB/100m 2000MHz: 47.1dB/100m 2400MHz: 53.0dB/100m 2600MHz: 55.8dB/100m	JIS C 3501

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	$\geq 10.0 \text{ Mpa}$	JIS C 3005
	Elongation	$\geq 190 \%$	JIS C 3005
The permission tension		$\leq 106 \text{ N}$	-
Permission bend radius		On / after installation finished: More than 4 times of the cable O.D. Process of wiring: More than 10 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.