

## Product Specification (L-3D2V)

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-3D2V

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

Fig.1

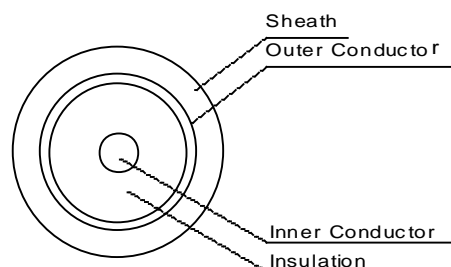


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	7/0.32A
	Nom. Cross Section Area (mm <sup>2</sup> )	0.56
	Outer Diameter (mm)	0.96
Insulation	Thickness (mm)	1.02
	Outer Diameter (mm)	3.00
Outer Conductor	Construction (carr/end/mm)	24/ 5/0.14TA
	Pitch (mm)	<=26
	Outer Diameter (mm)	3.6
Sheath	Thickness (mm)	0.9
	Color	Gray Custom colors available
	Marking	50Ω Coaxial Cable L-3D2V CANARE <Year Code> MADE IN JAPAN
Outer Diameter (mm)	5.3	

(4) **Weight** Approx. 4.5kg / 100m

(5) **Package** 100m, 200m: Coil  
400m, 600m: Spool  
Over 610m: Wooden reel

**2. Rating, Standard**

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

**3. Electrical Characteristics**

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 32.7\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 11.7\Omega/\text{km}$ (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		$50\pm 2\Omega$ (10MHz)	JIS C 3501
Nominal Capacitance		$100\pm 4\text{nF}/\text{km}$ (1kHz)	JIS C 3501
Nominal Attenuation		10MHz: 4.5dB/100m 130MHz: 17.3dB/100m 470MHz: 35.4dB/100m 600MHz: 40.7dB/100m 710MHz: 44.9dB/100m 714MHz: 45.1dB/100m 800MHz: 48.2dB/100m 1240MHz: 62.6dB/100m 1260MHz: 63.2dB/100m 1575MHz: 72.5dB/100m 1700MHz: 76.0dB/100m 2000MHz: 84.1dB/100m 2400MHz: 94.4dB/100m 2600MHz: 99.3dB/100m	JIS C 3501

**4. Mechanical Characteristics**

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	$\geq 10.0$ Mpa	JIS C 3005
	Elongation	$\geq 190$ %	JIS C 3005
The permission tension		$\leq 38$ 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.	-

**5. 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.