

Product Specification (LV-77S)

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** LV-77S

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

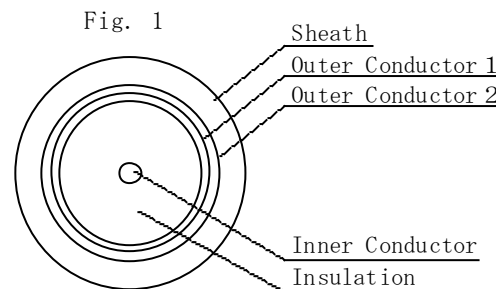


Table 1

Item		Standard Value	Note
No. of Unit		1	—
Inner Conductor	Construction (qty/mm)	7/0.26A	Annealed Copper
	Nom. Cross Section Area (mm ²)	0.37	22AWG
	Outer Diameter (mm)	0.78	
Insulation	Thickness (mm)	2.01	Polyethylene
	Outer Diameter (mm)	4.80	
Outer Conductor 1	Construction (carr/end/mm)	24/ 7/0.12A	Annealed Copper
	Pitch (mm)	<= 30	Coverage >=92%
	Outer Diameter (mm)	5.3	
Outer Conductor 2	Construction (carr/end/mm)	24/ 8/0.12A	Annealed Copper
	Pitch (mm)	<= 25	Coverage >=95%
	Outer Diameter (mm)	5.9	
Sheath	Thickness (mm)	0.9	Flame Retardant PVC
	Color	BLK, BRN, RED, ORN, YEL, GRN, BLU, GRY. Custom colors available	
	Marking	75Ω Coaxial Cable LV-77S CANARE <Year code> MADE IN JAPAN	
Outer Diameter (mm)		7.7	

(4) **Weight** Approx. 9.0 kg/100m

(5) **Package** 100m, 153m : Spool

200m, 305m : Wooden Spool

Over 120m : Wooden reel

3. Rating, Standard

- (1) **Rated Voltage** AC 60Vrms
(2) **Temperature Range** -30~+60℃

4. Electrical Characteristics

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 50.2 \Omega / \text{km}$ (20℃)	JIS C3005
	Outer Conductor	$\leq 5.5 \Omega / \text{km}$ (20℃)	JIS C3005
Insulation Resistance		$\geq 1000 \text{M}\Omega \cdot \text{km}$	JIS C3005
Voltage Proof		AC1000V 1minute Not Breakdown	JIS C3005
Characteristic Impedance		$75 \pm 3 \Omega$ (10MHz)	JIS C3501
Capacitance		$67 \pm 3 \text{nF/km}$ (1kHz)	JIS C3501
Nominal Attenuation		10MHz: 2.9dB/100m 30MHz: 5.2dB/100m 72MHz: 8.1dB/100m 88MHz: 9.0dB/100m 90MHz: 9.1dB/100m 135MHz: 11.3dB/100m 180MHz: 13.1dB/100m 270MHz: 16.3dB/100m 440MHz: 21.3dB/100m 750MHz: 28.6dB/100m	JIS C3502

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	$\geq 10.0 \text{ Mpa}$	JIS C3005
	Elongation	$\geq 220 \%$	JIS C3005
Tensile strength		$\leq 25 \text{N}$	—
Bending radius	Fixation	$\geq 4 \times \text{cable O.D.}$	—
	Installation	$\geq 10 \times \text{cable O.D.}$	—

6. Environment Characteristics

Item	Standard Value	Test Method
Migration	No deformity, discoloration or other flaws must be found on ABS resin plates during visual inspection.	Test conditions: Temperature: $50 \pm 1^\circ \text{C}$ Duration: 24 ± 1 hours (humidity not designated) Load: $500 \pm 25 \text{g}$
Flame Retardance	Flame must extinguish naturally within 60 seconds.	Perform inclination test according to JIS C3005.

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℃, a relative humidity of 25-75%, and an atmospheric pressure of 86-106kPa.