

Product Specification (V3-1.5C)

Canare Electric Co., Ltd

1. **Scope** This product specification covers the performance of the 75Ω Coaxial cable.

2. General Specifications

(1) **Product Name** Multi-Channel 75Ω Coaxial Cable

(2) **Model Name** V3-1.5C

(3) **Construction and Appearance** As shown in Fig.1, Fig.2 and Table 1

Fig. 1

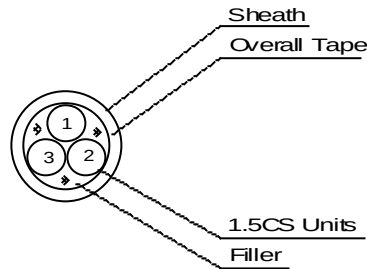
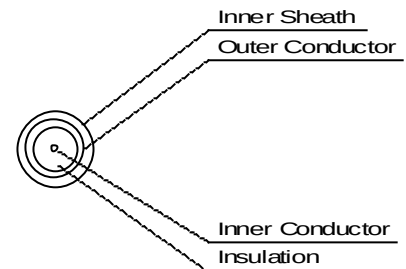


Fig.2



Channel Color Code : Inner Sheath

1	2	3
RED	GRN	BLU

Table 1

Item			Standard Value	Note
No. of Unit			3	
Construction of Unit	Inner Conductor	Construction (qty/mm)	7/0.09A	Annealed Copper 31AWG
		Nom. Cross Section Area(mm ²)	0.04	
		Outer Diameter (mm)	0.27	
	Insulation	Thickness (mm)	0.64	Polyethylene
		Over Diameter (mm)	1.55	
	Outer Conductor	Construction (carr/end/mm)	16/ 5/0.10A	Annealed Copper Coverage >=94%
		Pitch (mm)	<= 15	
		Overall Diameter (mm)	2.0	
	Inner Sheath	Thickness (mm)	0.3	PVC
Over Diameter (mm)		2.6		
Filler		Materials	Jute	
Overall Tape		Thickness (mm)	0.05	Paper Tape
Sheath		Thickness (mm)	0.8	PVC
		Color	Black	
		Marking	75Ω Coaxial Cable V3-1.5C CANARE <Year Code> E**** 20002 AWM VW-1	
Overall Diameter (mm)			7.4	

(4) **Weight** Approx. 7.3 kg / 100m

(5) **Package** Not exceeding 340m: Coil
Over 350m: Wooden reel

3. Rating, Standard

- (1) **Rated Voltage** AC 30Vrms
 (2) **Temperature Range** -30°C ~ +60°C
 (3) **UL AWM** Style 20002

4. Electrical Characteristics

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 422.8\Omega/\text{km}$ (20°C)	JIS C3005
	Outer Conductor	$\leq 32.9\Omega/\text{km}$ (20°C)	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
Nominal Capacitance		$69\pm 4\text{nF}/\text{km}$ (1kHz)	JIS C3501
Nominal Attenuation		10MHz: 8.7dB/100m 30MHz: 15.1dB/100m 72MHz: 23.6dB/100m 88MHz: 26.2dB/100m 135MHz: 32.7dB/100m 180MHz: 37.9dB/100m 270MHz: 46.8dB/100m 750MHz: 80.5dB/100m 1.3GHz:108.6dB/100m 1.5GHz:117.5dB/100m 2.0GHz:137.9dB/100m 2.5GHz:156.3dB/100m 3.0GHz:173.4dB/100m	JIS C3501

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	$\geq 11.0\text{ MPa}$	JIS C3005
	Elongation	$\geq 220\%$	JIS C3005

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