

Product Specification (V3-5CFB)

Canare Electric Co., Ltd

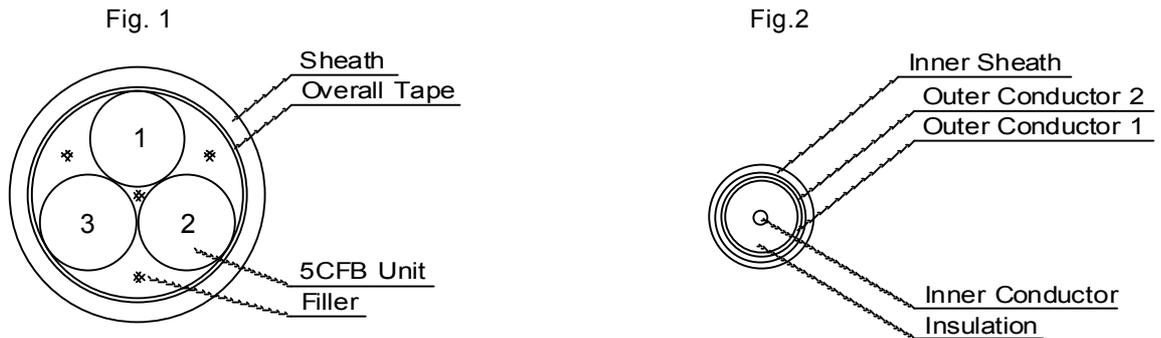
1. **Scope** This product specification covers the performance of the 75Ω Coaxial cable.

2. **General Specifications**

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

(2) **Model Name** V3-5CFB

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



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) Nom. Cross Section Area(mm ²) Outer Diameter (mm)	1/1.05A 0.87 1.05 Annealed Copper 18AWG
	Insulation	Thickness (mm) Over Diameter (mm)	1.98 5.00 Foamed Polyethylene
	Outer Conductor 1	Thickness (mm) Over Diameter (mm)	0.07 5.1 Aluminium Laminated Tape
	Outer Conductor 2	Construction (carr/end/mm) Pitch Overall Diameter	24/ 7/0.14TA ≤ 45 5.7 Tinned Annealed Copper Coverage ≥93%
	Inner Sheath	Thickness (mm) Over Diameter (mm)	0.4 6.5 PVC
	Filler	Materials	Jute
	Overall Tape	Thickness (mm)	0.16 Non Woven Fabric Tape
	Sheath	Thickness (mm) Color Marking	1.6 Black 75Ω Coaxial Cable V3-5CFB CANARE <Year Code> MADE IN JAPAN PVC
	Overall Diameter (mm)	17.1	

(4) **Weight** Approx. 29 kg / 100m

(5) **Package** Not exceeding 80m: Coil
Over 90m: 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	$\leq 21.3\Omega/\text{km}$ (20°C)	JIS C3005
	Outer Conductor	$\leq 8.3\Omega/\text{km}$ (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 C3502
Nominal Capacitance		55nF/km (1kHz)	JIS C3501
Nominal Attenuation		10MHz: 2.2dB/100m 30MHz: 3.6dB/100m 72MHz: 5.3dB/100m 88MHz: 5.8dB/100m 135MHz: 7.1dB/100m 180MHz: 8.2dB/100m 270MHz: 10.2dB/100m 750MHz: 17.7dB/100m 1.3GHz: 24.1dB/100m 1.5GHz: 26.1dB/100m 2.0GHz: 30.8dB/100m 2.5GHz: 35.1dB/100m 3.0GHz: 39.1dB/100m	JIS C3502

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	≥ 10.0 Mpa	JIS C3005
	Elongation	≥ 190 %	JIS C3005

6. Environment Characteristics

Item	Standard Value	Test Method
Flame Retardance	Flame must extinguish naturally within 60 seconds.	Perform inclination test according to JIS C3005.
	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 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.