

Product Specification

(V4-2.5CHW)

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** V4-2.5CHW

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

Fig. 1

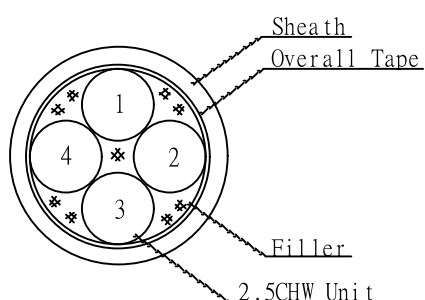
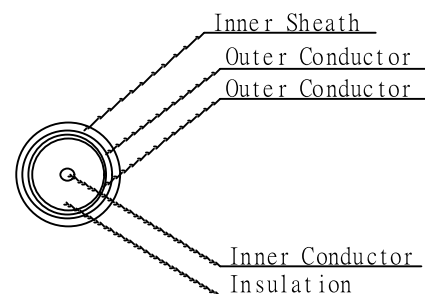


Fig.2



Channel Color Code Inner Sheath

1	2	3	4
RED	GRN	BLU	WHT

Table 1

Item			Standard Value	Note
No. of Unit			4	
Construction of Unit	Inner Conductor	Construction (qty/mm)	1/0.59A	Annealed Copper
		Nom. Cross Section Area(mm ²)	0.27	22AWG
		Outer Diameter (mm)	0.59	
	Insulation	Thickness (mm)	1.00	Foamed Polyethylene
		Outer Diameter (mm)	2.59	
	Outer Conductor 1	Construction (carr/end/mm)	16/ 8/0.10TA	Tinned Annealed Copper
		Pitch (mm)	<= 20	Coverage >=95%
		Outer Diameter (mm)	3.0	
	Outer Conductor 2	Construction (carr/end/mm)	16/ 9/0.10TA	Tinned Annealed Copper
		Pitch (mm)	<= 25	Coverage >=94%
		Outer Diameter (mm)	3.5	
	Inner Sheath	Thickness (mm)	0.3	Flame Retardant PVC
		Outer Diameter (mm)	4.2	

Filler	Materials	Rayon yarn	
Overall Tape	Thickness (mm)	0.08	Non Woven Fabric Tape
Sheath	Thickness (mm)	1.1	Flame Retardant PVC
	Color	Black	
	Marking	UHDTV-SDI 75Ω Coaxial Cable V4-2.5CHW CANARE <Year code> MADE IN JAPAN	
Outer Diameter (mm)		13.0	

(4) **Weight** Approx. 21 kg 100m

(5) **Package** 10m,30m,50m,100m: Coil
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	$\leq 67.6 \Omega / \text{km}$ (20)	JIS C3005
	Outer Conductor	$\leq 10.0 \Omega / \text{km}$ (20)	JIS C3005
Insulation Resistance		$\geq 1000M\Omega$ km	JIS C3005
Voltage Proof		AC1000V 1minute Not Breakdown	JIS C3005
Characteristic Impedance		$75 \pm 3 \Omega$ (10MHz)	JIS C3502
Nominal Capacitance		53nF/km (1kHz)	JIS C3502
Nominal Attenuation		10MHz: 3.8dB/100m 30MHz: 6.7dB/100m 72MHz: 10.4dB/100m 88MHz: 11.6dB/100m 90MHz: 11.7dB/100m 135MHz: 14.4dB/100m 180MHz: 16.8dB/100m 270MHz: 20.7dB/100m 440MHz: 26.9dB/100m 750MHz: 35.7dB/100m 770MHz: 36.3dB/100m 1.3GHz: 48.3dB/100m 1.5GHz: 52.3dB/100m 2.4GHz: 68.1dB/100m 3.0GHz: 77.4dB/100m	JIS C3502

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	≥ 11.0 Mpa	JIS C3005
	Elongation	≥ 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 ± 1 Duration: 24 ± 1 hours (humidity not designated) Load: 500 ± 25 g
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.