

Product Specification (L-5.5CUHWS)

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** L-5.5CUHWS

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

Fig. 1

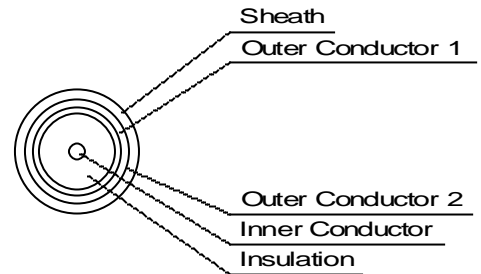


Table 1

| Item | Standard Value | Note |
|---------------------|--------------------------------------------|-----------------------------------------------------------------------------------|
| No. of Conductor | 1 | |
| Inner Conductor | Construction (qty/mm) | 7/Compact strand |
| | Nom. Cross Section Area (mm ²) | 1.30 |
| | Outer Diameter (mm) | 1.30 |
| Insulation | Thickness (mm) | 2.13 |
| | Outer Diameter (mm) | 5.56 |
| Outer Conductor 1 | Construction (carr/end/mm) | 24/10/0.10TA |
| | Pitch (mm) | ≤ 42 |
| | Outer Diameter (mm) | 6.0 |
| Outer Conductor 2 | Construction (carr/end/mm) | 24/10/0.10TA |
| | Pitch (mm) | ≤ 38 |
| | Outer Diameter (mm) | 6.5 |
| Sheath | Thickness (mm) | 0.8 |
| | Color | BLK,BRN,RED,ORN,YEL, GRN,BLU,PPL,GRY,WHT Custom colors available |
| | Marking | 12G-SDI 75Ω Coaxial Cable L-5.5CUHWS CANARE <Year Code> MADE IN JAPAN |
| Outer Diameter (mm) | 8.1 | |

(4) **Weight** Approx. 8.6kg / 100m

(5) **Package** 100m, 200m: Coil
Over 290m: Wooden reel

2. Rating, Standard

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

3. Electrical Characteristics

| Item | | Standard Value | Test Method |
|--------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| D.C. Resistance | Inner Conductor | $\leq 14.0\Omega/\text{km}$ (20°C) | JIS C 3005 |
| | Outer Conductor | $\leq 5.8\Omega/\text{km}$ (20°C) | JIS C 3005 |
| Insulation Resistance | | $\geq 1000\text{M}\Omega\text{-km}$ | JIS C 3005 |
| Voltage Proof | | AC1000V 1minute Not Breakdown | JIS C 3005 |
| Characteristic Impedance | | $75\pm 3\Omega$ (10MHz) | JIS C 3502 |
| Nominal Capacitance | | 54nF/km (1kHz) | JIS C 3005 |
| Nominal Attenuation | | 10MHz: 1.7dB/100m 30MHz: 3.1dB/100m 72MHz: 4.8dB/100m 88MHz: 5.3dB/100m 135MHz: 6.7dB/100m 180MHz: 7.7dB/100m 270MHz: 9.6dB/100m 750MHz: 16.7dB/100m 1.3GHz: 22.7dB/100m 1.5GHz: 24.6dB/100m 2.0GHz: 29.0dB/100m 2.5GHz: 33.0dB/100m 3.0GHz: 36.7dB/100m 6.0GHz: 56.0dB/100m | JIS C 3502 |

4. Mechanical Characteristics

| Item | | Standard Value | Test Method |
|------------------------------|------------------|-------------------------------------|-------------|
| Tensile properties of Sheath | Tensile strength | ≥ 14.0 MPa | JIS C 3005 |
| | Elongation | ≥ 230 % | JIS C 3005 |
| The permission tension | | ≤ 89 N | - |
| Permission bend radius | | More than 6 times of the cable O.D. | - |

5. 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 condition: Temperature:50+/-1°C Duration:24+/-1hour (humidity not designated) Load:500+/-25g |
| Flame Retardance | Flame must extinguish naturally within 60 seconds. | Perform inclination test according to JIS C 3005. |

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.