

Product Specification (L-5.5CUHD FRNC)

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-5.5CUHD FRNC
- (3) **Construction and Appearance** As shown in Fig.1 and Table 1

Fig. 1

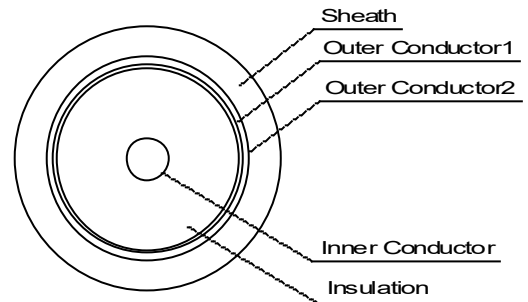


Table 1

| Item | Standard Value | Note |
|---------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| No. of Conductor | 1 | |
| Inner Conductor | Construction (qty/mm) | 1/1.35A |
| | Nom. Cross Section Area (mm ²) | 1.43 |
| | Outer Diameter (mm) | 1.35 |
| Insulation | Thickness (mm) | 2.10 |
| | Outer Diameter (mm) | 5.55 |
| Outer Conductor 1 | Thickness (mm) | 0.04 |
| | Outer Diameter (mm) | 5.6 |
| Outer Conductor 2 | Construction (carr/end/mm) | 24/ 8/0.12TA |
| | Pitch (mm) | <= 31 |
| | Outer Diameter (mm) | 6.2 |
| Sheath | Thickness (mm) | 0.75 |
| | Color | BLK. BRN. RED. ORN. YEL. GRN. BLU. GRY. WHT. PPL. Custom colors available |
| Sheath | Marking | 12G-SDI 75 Ohm Coaxial Cable L-5.5CUHD-FRNC Euroclass B2ca s1a,d1,a1 LSZH-FR CANARE (XXXXX) MADE IN ITALY "Meter marking" |
| | | (xxxxx = batch of production) |
| Outer Diameter (mm) | 7.7 | |

(4) Weight Approx. 7.7kg/100m

3. Rating, Standard

(1) **Rated Voltage** AC 60Vrms

(2) **Temperature Range** -20°C to +75°C

(3) **Applicable Specifications** Euroclass B2ca s1a, d1, a1 (EN 13501-6:2018)

4. Electrical Characteristics

| Item | | Standard Value | Test Method |
|--------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| D.C. Resistance | Inner Conductor | $\leq 12.8\Omega/\text{km}$ (20°C) | JIS C 3005 |
| | Outer Conductor | $\leq 10.3\Omega/\text{km}$ (20°C) | JIS C 3005 |
| Insulation Resistance | | $\geq 1000\text{M}\Omega \times \text{km}$ | JIS C 3005 |
| Voltage Proof | | AC1000V 1minute Not Breakdown | JIS C 3005 |
| Characteristic Impedance | | 75±3Ω | ANSI/SCTE 68 2008 |
| Nominal Capacitance | | 52nF/km (1kHz) | JIS C 3502 |
| Nominal Attenuation | | 10MHz: 1.6dB/100m 30MHz: 2.6dB/100m 72MHz: 3.9dB/100m 88MHz: 4.3dB/100m 135MHz: 5.3dB/100m 180MHz: 6.1dB/100m 270MHz: 7.5dB/100m 750MHz: 12.9dB/100m 1.3GHz: 17.1dB/100m 1.5GHz: 18.6dB/100m 2.0GHz: 21.6dB/100m 2.5GHz: 24.3dB/100m 3.0GHz: 26.8dB/100m 6.0GHz: 39.1dB/100m | JIS C 3502 |

5. Mechanical Characteristics

| Item | | Standard Value | Test Method |
|------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Tensile properties of Sheath | Tensile strength | $\geq 10.0 \text{ MPa}$ | JIS C 3005 |
| | Elongation | $\geq 190 \%$ | JIS C 3005 |
| Maximum pulling force | | $\leq 98 \text{ N}$ | - |
| Permission bend radius | | On / after installation finished: More than 6 times of the cable O.D. Process of wiring: More than 15 times of the cable O.D. | - |

6. Environmental Characteristics

| Item | Performance | Technical specification |
|----------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Flame Retardance | Reaction to fire: Class B2ca s1a, d1, a1 | Test done in accordance with EN 13501-6:2018 (EN 60332-1-2, EN 50399, EN 61034-2, EN 60754-2) |
| Dangerous substances | None | EU Directive 2011/65 (RoHS 2) |

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.