

## Product Specification (L-4CFB)

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-4CFB

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

Fig. 1

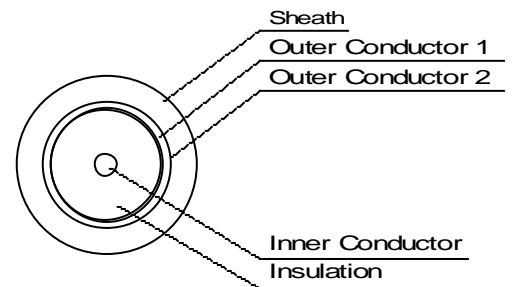


Table 1

| Item                | Standard Value                             | Note                                                               |
|---------------------|--------------------------------------------|--------------------------------------------------------------------|
| No. of Conductor    | 1                                          |                                                                    |
| Inner Conductor     | Construction (qty/mm)                      | 1/0.80A                                                            |
|                     | Nom. Cross Section Area (mm <sup>2</sup> ) | 0.50                                                               |
|                     | Outer Diameter (mm)                        | 0.80                                                               |
| Insulation          | Thickness (mm)                             | 1.45                                                               |
|                     | Outer Diameter (mm)                        | 3.70                                                               |
| Outer Conductor 1   | Thickness (mm)                             | 0.05                                                               |
|                     | Outer Diameter (mm)                        | 3.8                                                                |
| Outer Conductor 2   | Construction (carr/end/mm)                 | 16/ 8/0.14TA                                                       |
|                     | Pitch (mm)                                 | <= 36                                                              |
|                     | Outer Diameter (mm)                        | 4.4                                                                |
| Sheath              | Thickness (mm)                             | 0.9                                                                |
|                     | Color                                      | Blk. Red Yel. Grn.<br>Blu. Gry. Wht.<br>Custom colors available    |
|                     | Marking                                    | 75Ω Coaxial Cable<br>L-4CFB CANARE<br><Year Code><br>MADE IN JAPAN |
| Outer Diameter (mm) | 6.1                                        |                                                                    |

(4) **Weight** Approx. 4.9kg/100m

(5) **Package** 100m, 200m: Coil  
300m, 500m: Spool  
Over 510m: Wooden reel

### 3. Rating, Standard

- (1) Rated Voltage AC 60Vrms
- (2) Temperature Range -20°C to +60°C
- (3) Applicable Specification JIS C 3502

### 4. Electrical Characteristics

| Item                     |                 | Standard Value                                                                                                                                                                                                                                                                                 | Test Method |
|--------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| D.C. Resistance          | Inner Conductor | $\leq 35.7\Omega/\text{km}$ (20°C)                                                                                                                                                                                                                                                             | JIS C 3005  |
|                          | Outer Conductor | $\leq 10.7\Omega/\text{km}$ (20°C)                                                                                                                                                                                                                                                             | JIS C 3005  |
| Insulation Resistance    |                 | $\geq 1000\text{M}\Omega \cdot \text{km}$                                                                                                                                                                                                                                                      | JIS C 3005  |
| Voltage Proof            |                 | AC1000V 1minute Not Breakdown                                                                                                                                                                                                                                                                  | JIS C 3005  |
| Characteristic Impedance |                 | $75\pm 3\Omega$ (10MHz)                                                                                                                                                                                                                                                                        | JIS C 3502  |
| Nominal Capacitance      |                 | 55nF/km ( 1kHz)                                                                                                                                                                                                                                                                                | JIS C 3501  |
| Nominal Attenuation      |                 | 10MHz: 3.0dB/100m<br>30MHz: 4.8dB/100m<br>72MHz: 7.1dB/100m<br>88MHz: 7.8dB/100m<br>135MHz: 9.5dB/100m<br>180MHz: 11.0dB/100m<br>270MHz: 13.6dB/100m<br>750MHz: 23.6dB/100m<br>1.3GHz: 31.9dB/100m<br>1.5GHz: 34.6dB/100m<br>2.0GHz: 40.7dB/100m<br>2.5GHz: 46.3dB/100m<br>3.0GHz: 51.5dB/100m | JIS C 3502  |

### 5. Mechanical Characteristics

| Item                         |                  | Standard Value                                                                                                                         | Test Method |
|------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Tensile properties of Sheath | Tensile strength | $\geq 10.0$ Mpa                                                                                                                        | JIS C 3005  |
|                              | Elongation       | $\geq 200$ %                                                                                                                           | JIS C 3005  |
| Allowable tension            |                  | $\leq 35$ N                                                                                                                            | -           |
| Allowable bending radius     |                  | On / after installation finished:<br>More than 6 times of the cable O.D.<br>Process of wiring:<br>More than 15 times of the cable O.D. | -           |

### 6. Environment Characteristics

| Item             | Standard Value                                     | Test Method                                       |
|------------------|----------------------------------------------------|---------------------------------------------------|
| 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.