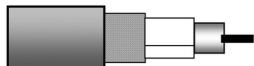


**Product:** [CTF100](#) 

CTF100 - Broadband Coax, 18 AWG Solid BC, Foil + 50% BC Braid, PVC Jkt



## Product Description

Broadband Coax, 18 AWG Solid Bare Copper Conductor, PE Insulation, Copper Foil + 50% Bare Copper Braid Shield, PVC Jacket.

## Technical Specifications

### Product Overview

|                        |                                                                                |
|------------------------|--------------------------------------------------------------------------------|
| Suitable Applications: | Broadband, Cable Television (CATV), RF drop cable, Over-The-Air (OTA) antennas |
|------------------------|--------------------------------------------------------------------------------|

### Construction Details

|          |   |
|----------|---|
| RG Type: | 6 |
|----------|---|

#### Conductor

| No. of Elements | Size   | Stranding | Nom. Diameter | Material         |
|-----------------|--------|-----------|---------------|------------------|
| 1               | 18 AWG | Solid     | 0.96 mm       | BC - Bare Copper |

#### Insulation

| Element             | Material                 | Nom. Insulation Diameter |
|---------------------|--------------------------|--------------------------|
| Insulated Conductor | PE - Polyethylene (Foam) | 4.7 mm (0.19 in)         |

#### Outer Shield

| Layer | Outer Shield Type | Material                       | Coverage |
|-------|-------------------|--------------------------------|----------|
| 1     | Tape              | Bi-Laminate (Bare Copper+Poly) | 100%     |
| 2     | Braid             | Bare Copper (BC)               | 55%      |

#### Outer Jacket

| Material                 | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 6.65 mm       |

### Electrical Characteristics

|                          |                       |
|--------------------------|-----------------------|
| Regularity of Impedance: | Min. 40 or max. 1% dB |
|--------------------------|-----------------------|

#### Return Loss

| Frequency       | Min. Return Loss |
|-----------------|------------------|
| 5-470 MHz       | 20 dB            |
| 470 - 1000 MHz  | 18 dB            |
| 1000 - 2000 MHz | 16 dB            |
| 2000 - 3000 MHz | 15 dB            |

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| Return Loss Table Notes: | In each frequency band, 3 peak values up to 4 dB lower are allowed |
|--------------------------|--------------------------------------------------------------------|

#### Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 5 MHz     | 1.6 dB/100m      |
| 50 MHz    | 4.6 dB/100m      |
| 100 MHz   | 6.5 dB/100m      |
| 200 MHz   | 9.5 dB/100m      |
| 460 MHz   | 15 dB/100m       |
| 800 MHz   | 18.8 dB/100m     |

|          |              |
|----------|--------------|
| 860 MHz  | 19.5 dB/100m |
| 1000 MHz | 21.5 dB/100m |
| 1750 MHz | 29 dB/100m   |
| 2150 MHz | 32.5 dB/100m |
| 2400 MHz | 34.4 dB/100m |
| 3000 MHz | 38.4 dB/100m |

Electricals

| Max. Conductor DCR         | Nom. Outer Shield DCR      | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|----------------------------|----------------------------|---------------------------------|-------------------------------|------------------------|
| 26 Ohm/km (7.9 Ohm/1000ft) | 15 Ohm/km (4.6 Ohm/1000ft) | 55 pF/m (17 pF/ft)              | 75 Ohm                        | 82%                    |

Screening

| Frequency       | Min. Screening Attenuation |
|-----------------|----------------------------|
| 30 - 1000 MHz   | 75 dB                      |
| 1000 - 2000 MHz | 65 dB                      |
| 2000 - 3000 MHz | 55 dB                      |

Mechanical Characteristics

Temperature

| Operating      | Installation  | Storage        |
|----------------|---------------|----------------|
| -40°C To +70°C | -5°C To +50°C | -40°C To +70°C |

Bend Radius

| Stationary Min. |
|-----------------|
| 35 mm (1.4 in)  |

Standards and Compliance

|                                  |                                         |
|----------------------------------|-----------------------------------------|
| Environmental Suitability:       | Indoor - Euroclass Eca                  |
| Flammability / Reaction to Fire: | IEC 60332-1-2                           |
| CPR Compliance:                  | CPR Euroclass: Eca                      |
| CENELEC Compliance:              | EN 50117-1, EN 50117-9-2, EN 50290-2-20 |
| European Directive Compliance:   | EU CE Mark                              |
| UK Regulation Compliance:        | UKCA Mark                               |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.205 Revision Date: 09-07-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #       | Color | Putup Type | Length | EAN           |
|--------------|-------|------------|--------|---------------|
| CTF100.00100 | Black | Reel       | 100 m  | 8719605047342 |
| CTF100.00500 | Black | Reel       | 500 m  | 8719605047366 |

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