



**Product:** [7985LC](#)

Surveillance CCTV, RG-6 #18 BC, 95% BC Braid, CMP

## Product Description

Surveillance & CCTV Cable, RG6, Plenum-CMP-FHC 25/50, 18 AWG bare copper foam FEP core, 95% bare copper braid, FEP jacket

## Technical Specifications

### Product Overview

|                        |                           |
|------------------------|---------------------------|
| Suitable Applications: | Surveillance, CCTV Camera |
|------------------------|---------------------------|

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material         | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 18  | Solid     | BC - Bare Copper | 0.04 in          | 1           |

|                  |   |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

#### Insulation

| Material                                    | Material Trade Name | Nominal Diameter |
|---|---------------------|------------------|
| FEP - Fluorinated Ethylene Propylene (Foam) | Teflon®             | 0.17 in          |

#### Outer Shield

| Type  | Material         | Coverage [%] |
|-------|------------------|--------------|
| Braid | Bare Copper (BC) | 95%          |

#### Outer Jacket

| Material                             | Material Trade Name | Nominal Diameter |
|--------------------------------------|---------------------|------------------|
| FEP - Fluorinated Ethylene Propylene | Teflon®             | 0.228 in         |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 6.4 Ohm/1000ft        | 2.2 Ohm/1000ft           |

#### Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 16.3 pF/ft                           |

#### Inductance

| Nominal Inductance |
|--------------------|
| 0.097 $\mu$ H/ft   |

#### Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm                           |

#### High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
|-----------------|---------------------|

|          |               |
|----------|---------------|
| 1 MHz    | 0.24 dB/100ft |
| 3 MHz    | 0.45 dB/100ft |
| 5 MHz    | 0.55 dB/100ft |
| 8 MHz    | 0.7 dB/100ft  |
| 10 MHz   | 0.85 dB/100ft |
| 50 MHz   | 1.5 dB/100ft  |
| 100 MHz  | 2.1 dB/100ft  |
| 200 MHz  | 3.1 dB/100ft  |
| 400 MHz  | 4.7 dB/100ft  |
| 700 MHz  | 6.8 dB/100ft  |
| 900 MHz  | 8 dB/100ft    |
| 1000 MHz | 8.5 dB/100ft  |

#### Delay

| Max. Delay Skew | Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|-----------------|---------------|--|
| 83 ns/100m      | 1.24 ns/ft    | 83%                                      |

#### Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

#### Temperature Range

|                              |                 |
|------------------------------|-----------------|
| UL Temp Rating:              | 200°C           |
| Operating Temperature Range: | -40°C To +200°C |

#### Mechanical Characteristics

|                                  |               |
|----------------------------------|---------------|
| Bulk Cable Weight:               | 41 lbs/1000ft |
| Max. Pull Tension:               | 84 lbs        |
| Min Bend Radius (Overall Cable): | 1.04          |
| Min. Bend Radius/Minor Axis:     | 2.25 in       |

#### Standards

|                       |                                   |
|-----------------------|-----------------------------------|
| NEC Articles:         | Article 800                       |
| NEC/(UL) Compliance:  | Limited Combustible FHC 25/50 CMP |
| CEC/C(UL) Compliance: | CMP                               |
| RG Type:              | 6                                 |
| Series Type:          | 6                                 |

#### Applicable Environmental and Other Programs

|                             |                               |
|-----------------------------|-------------------------------|
| EU Directive Compliance:    | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                 | Yes                           |
| MII Order #39 (China RoHS): | Yes                           |

#### Flammability, LS0H, Toxicity Testing

|                    |                  |
|--------------------|------------------|
| UL Flammability:   | UL723 (NFPA 255) |
| UL voltage rating: | 300 V RMS        |

#### Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

#### Related Part Numbers

#### Variants

| Item #         | Color | Put-Up Type | Length   | UPC          |
|----------------|-------|-------------|----------|--------------|
| 7985LC 010500  | Black | Reel        | 500 ft   | 612825192466 |
| 7985LC 0101000 | Black | Reel        | 1,000 ft | 612825192459 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

#### Product Notes

|        |   |
|--------|---|
| Notes: | Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc. |
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## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.373 Revision Date: 05-05-2023 |
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