



Product: [734C12](#)

DS3/DS4 Central Office Coax, 12 x RG-59, 20 AWG Solid SC, Foil + 85% TC Braids, PVC Inner & Outer Jkts, CMR

Product Description

DS3/DS4 Central Office Coax, 12 Coaxes, RG-59, 20 AWG Solid Silvered Copper Conductor, PE Insulation, Foil + 85% Tinned Copper Braid Shields, PVC Inner and Outer Jackets, CMR

Technical Specifications

Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | Central office wiring, DS3/DS4 interconnect, 734/735 telecommunications systems, switchboard communications |
|------------------------|---|

Construction Details

|          |    |
|----------|----|
| RG Type: | 59 |
|----------|----|

Conductor

| Size   | Stranding | Nom. Diameter | Material             |
|--------|-----------|---------------|----------------------|
| 20 AWG | Solid     | 0.032 in      | SC - Silvered Copper |

Insulation

| Material                 | Nom. Insulation Diameter |
|--------------------------|--------------------------|
| PE - Polyethylene (Foam) | 0.148 in (3.76 mm)       |

Inner Shield

| Layer | Shield Type | Material                      | Material Trade Name | Coverage |
|-------|-------------|-------------------------------|---------------------|----------|
| 1     | Tape        | Tri-Laminate (Alum+Poly+Alum) | Duofoil®            | 100%     |
| 2     | Braid       | Tinned Copper (TC)            |                     | 85%      |

Inner Jacket

| Material                 | Nom. Diameter      |
|--------------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.235 in (5.97 mm) |

|              |                               |
|--------------|-------------------------------|
| Table Notes: | Each jacket gray and numbered |
|--------------|-------------------------------|

Outer Jacket

| Material                 | Nom. Diameter     |
|--------------------------|-------------------|
| PVC - Polyvinyl Chloride | 1.07 in (27.2 mm) |

Electrical Characteristics

Return Loss (RL)

| Frequency   | Min. Return Loss |
|-------------|------------------|
| 5 - 150 MHz | 32 dB            |

Attenuation

| Frequency | Max. Attenuation |
|-----------|------------------|
| 1 MHz     | 0.28 dB/100ft    |
| 5 MHz     | 0.59 dB/100ft    |
| 10 MHz    | 0.8 dB/100ft     |
| 22.5 MHz  | 1.18 dB/100ft    |
| 50 MHz    | 1.82 dB/100ft    |

|         |               |
|---------|---------------|
| 100 MHz | 2.6 dB/100ft  |
| 150 MHz | 3.22 dB/100ft |

Electricals

| Nom. Conductor DCR        | Nom. Inner Shield DCR       | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|---------------------------|-----------------------------|---------------------------------|-------------------------------|------------------------|
| 10 Ohm/1000ft (33 Ohm/km) | 2.4 Ohm/1000ft (7.9 Ohm/km) | 16.8 pF/ft (55.1 pF/m)          | 75 Ohm                        | 80%                    |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMR, CMG)  |

Mechanical Characteristics

Temperature

| Operating      |
|----------------|
| -20°C to +75°C |

Bend Radius

| Installation Min. |
|-------------------|
| 10.7 in           |

|                    |                  |
|--------------------|------------------|
| Max. Pull Tension: | 485 lbs (220 kg) |
| Bulk Cable Weight: | 451 lbs/1000ft   |

Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor - Riser, Indoor   |
| Sustainability:                  | CA Prop 65   |
| Flammability / Reaction to Fire: | UL1666 Vertical Shaft  |
| NEC / UL Compliance:             | CMR  |
| CEC / C(UL) Compliance:          | CMG  |
| European Directive Compliance:   | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)  |
| Other Standard Compliance(s):    | Telcordia Specification GR-139-CORE  |

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.201 Revision Date: 03-06-2023 |
|----------------------|--|

Part Numbers

Variants

| Item #         | Color | Putup Type | Length   | UPC          |
|----------------|-------|------------|----------|--------------|
| 734C12 0081000 | Gray  | Reel       | 1,000 ft | 612825184263 |
| 734C12 0082000 | Gray  | Reel       | 2,000 ft | 612825184270 |
| 734C12 0083000 | Gray  | Reel       | 3,000 ft | 612825184287 |

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