



**Product:** [735A12](#) 

DS3/DS4 Central Office Coax, 12 x Sub-miniature RG-59, 26 AWG Solid SC, Foil + 95% TC Braids, PVC Inner & Outer Jkts, CMR

## Product Description

DS3/DS4 Central Office Coax, 12 Coaxes, Sub-miniature RG-59, 26 AWG Solid Silvered Copper Conductor, PE Insulation, Foil + 95% 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: | Sub-miniature 59 |
|----------|------------------|

#### Conductor

| AWG | Stranding | Nom. Diameter | Material             |
|-----|-----------|---------------|----------------------|
| 26  | Solid     | 0.016 in      | SC - Silvered Copper |

#### Insulation

| Material                 | Nom. Diameter |
|--------------------------|---------------|
| PE - Polyethylene (Foam) | 0.077         |

#### Inner Shield Material

| Layer | Inner Shield Type | Material                | Material Trade Name | Coverage |
|-------|-------------------|-------------------------|---------------------|----------|
| 1     | Tape              | Bi-Laminate (Alum+Poly) | Beldfoil®           | 100%     |
| 2     | Braid             | Tinned Copper (TC)      |                     | 95%      |

#### Inner Jacket Material

| Material                 | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 0.129 in      |

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

#### Outer Jacket Material

| Material                 | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 0.581 in      |

### Electrical Characteristics

#### Return Loss (RL)

| Frequency [MHz] | Min. Return Loss [dB] |
|-----------------|-----------------------|
| 15 - 95 MHz     | 30 dB                 |

#### Attenuation

| Frequency | Max. Attenuation [dB/100ft] |
|-----------|-----------------------------|
| 1 MHz     | 0.6 dB/100ft                |
| 1.024 MHz | 0.61 dB/100ft               |
| 4.224 MHz | 1.1 dB/100ft                |
| 5 MHz     | 1.2 dB/100ft                |
| 10 MHz    | 1.7 dB/100ft                |

|             |              |
|-------------|--------------|
| 17.184 MHz  | 2.2 dB/100ft |
| 22.368 MHz  | 2.5 dB/100ft |
| 25.92 MHz   | 2.7 dB/100ft |
| 44.736 MHz  | 3.6 dB/100ft |
| 50 MHz      | 3.8 dB/100ft |
| 69.632 MHz  | 4.5 dB/100ft |
| 77.76 MHz   | 4.8 dB/100ft |
| 100 MHz     | 5.5 dB/100ft |
| 137.088 MHz | 6.4 dB/100ft |
| 200 MHz     | 7.8 dB/100ft |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Impedence | Nom. Velocity |
|--------------------|-----------------------|---------------------------------|----------------|---------------|
| 41 Ohm/1000ft      | 5.3 Ohm/1000ft        | 17.7 pF/ft                      | 75 Ohm         | 76%           |

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

| Installation Min. |
|-------------------|
| 5.8 in            |

|                    |                |
|--------------------|----------------|
| Bulk Cable Weight: | 185 lbs/1000ft |
| Max. Pull Tension: | 220 lbs        |

Standards and Compliance

|                                 |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| Environmental Suitability:      | Indoor - Riser, Indoor                                                                                  |
| Sustainability:                 | CA Prop 65                                                                                              |
| Flammability / Fire Resistance: | UL1666 Vertical Shaft                                                                                   |
| NEC / UL Compliance:            | CMR                                                                                                     |
| CEC / C(UL) Compliance:         | CMG                                                                                                     |
| European Directive Compliance:  | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), 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: 0.312 Revision Date: 07-31-2020 |
|----------------------|--------------------------------------------------|

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