



**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

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

#### Insulation

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

#### Inner Shield

| Layer | Inner 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      |

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

#### Outer Jacket

| Material                 | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 1.07 in       |

### Electrical Characteristics

#### Return Loss (RL)

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

#### Attenuation

| Frequency | Max. Attenuation [dB/100ft] |
|-----------|-----------------------------|
| 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 |
|--------------------|-----------------------|---------------------------------|-------------------------------|---------------|
| 10 Ohm/1000ft      | 2.4 Ohm/1000ft        | 16.8 pF/ft                      | 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           |

|                    |                |
|--------------------|----------------|
| Bulk Cable Weight: | 451 lbs/1000ft |
| Max. Pull Tension: | 485 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 (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: 0.191 Revision Date: 05-26-2021 |
|----------------------|--------------------------------------------------|

© 2021 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.