



Product: [734A12](#)



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

Product Description

DS3/DS4 Central Office Coax, 12 Coaxes, RG-59, 20 AWG Solid Bare 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 | BC - Bare 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 | Bi-Laminate (Alum+Poly) | Beldfoil® | 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 |
|-------------|------------------|
| 15 - 95 MHz | 30 dB |

Attenuation

| Frequency | Max. Attenuation |
|-----------|------------------|
| 5 MHz | 0.6 dB/100ft |
| 10 MHz | 0.8 dB/100ft |
| 22.5 MHz | 1.3 dB/100ft |
| 50 MHz | 1.8 dB/100ft |
| 100 MHz | 2.8 dB/100ft |

| | |
|---------|--------------|
| 200 MHz | 4.0 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 | 82% |

Voltage

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

Mechanical Characteristics

Temperature

| |
|------------------|
| Operating |
| -30°C to +75°C |

Bend Radius

| |
|--------------------------|
| Installation Min. |
| 1.0 in (25 mm) |

| | |
|--------------------|----------------------------|
| Max. Pull Tension: | 485 lbs (220 kg) |
| Bulk Cable Weight: | 436 lbs/1000ft (649 kg/km) |

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) |

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.421 Revision Date: 04-29-2024 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|----------------|-------|------------|----------|--------------|----------|
| 734A12 008500 | Gray | Reel | 500 ft | 612825184140 | C |
| 734A12 0081000 | Gray | Reel | 1,000 ft | 612825184171 | C |

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