

Product: [734C3](#) 



DS-3 and DS-4, 734C Series, #20-3 SPC Coax, CMR/CMG

Product Description

20 AWG solid .032" silver-plated copper conductors, gas-injected FHDPE insulation, Duobond® (100% coverage) plus a tinned copper braid shield (85% coverage), inner PVC jacket, overall PVC jacket with ripcord. Multiple coaxes feature inner PVC jackets with printed numbers for circuit ID.

Technical Specifications

Product Overview

|                        |                                              |
|------------------------|----------------------------------------------|
| Suitable Applications: | Central Office wiring for DS3 transmissions. |
|------------------------|----------------------------------------------|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material                             | Nominal Diameter | No. of Coax |
|-----|-----------|--------------------------------------|------------------|-------------|
| 20  | Solid     | SCCS - Silvered Copper Covered Steel | 0.032 in         | 3           |

|                  |   |
|------------------|---|
| Conductor Count: | 3 |
|------------------|---|

Insulation

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.148 in         |

|              |              |
|--------------|--------------|
| Table Notes: | Gas Injected |
|--------------|--------------|

Inner Shield Material

| Type  | Layer | Material           | Material Trade Name | Coverage [%] |
|-------|-------|--------------------|---------------------|--------------|
| Tape  | 1     | Alum / Poly / Alum | Duobond®            | 100%         |
| Braid | 2     | TC - Tinned Copper |                     | 85%          |

|              |                           |
|--------------|---------------------------|
| Table Notes: | Tape bonded to dielectric |
|--------------|---------------------------|

Inner Jacket Material

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.235 in         |

Outer Shield Material

| Material  |
|-----------|
| No Shield |

Outer Jacket Material

| Material                 | Nominal Diameter | Ripcord |
|--------------------------|------------------|---------|
| PVC - Polyvinyl Chloride | 0.588 in         | Yes     |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR | Conductor Resistance | Nominal Inner Shield DCR | Outer Conductor DCR |
|-----------------------|-----------------------|----------------------|--------------------------|---------------------|
| 10 Ohm/1000ft         | 10 Ohm/1000ft         |                      | 2.4 Ohm/1000ft           | 2.4 Ohm/1000ft      |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 16.8 pF/ft                           |

Inductance

| Nominal Inductance |
|--------------------|
| 0.097 µH/ft        |

Impedance

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

Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 5-150 MHz       | 32 dB               |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.27 ns/ft    | 80%                                      |

High Freq

| Frequency [MHz] | Max. Insertion Loss (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                     |

Voltage

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

Temperature Range

|                       |                |
|-----------------------|----------------|
| UL Temp Rating:       | 75°C           |
| Operating Temp Range: | -40°C To +75°C |

Mechanical Characteristics

|                              |                |
|------------------------------|----------------|
| Bulk Cable Weight:           | 136 lbs/1000ft |
| Max. Pull Tension:           | 180 lbs        |
| Min Bend Radius (Overall):   | 6 in           |
| Min Bend Radius (Each Coax): | 2.5 in         |

Standards

|                       |                                                                                |
|-----------------------|--------------------------------------------------------------------------------|
| NEC/(UL) Compliance:  | CMR                                                                            |
| CEC/C(UL) Compliance: | CMG                                                                            |
| RG Type:              | 59/U Type                                                                      |
| Other Compliance:     | Telcordia Specification GF-139-CORE; SBC ENTERPRISE - SBC-002-316-019, ISSUE 4 |

Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| Environmental Space:                  | Indoor - Riser                |
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/11/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2007-10-09                    |
| MII Order #39 (China RoHS):           | Yes                           |

Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Flammability, LS0H, Toxicity Testing

|                    |                       |
|--------------------|-----------------------|
| UL Flammability:   | UL1666 Vertical Shaft |
| CSA Flammability:  | FT4                   |
| UL voltage rating: | 300 V RMS             |

Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item #        | Color | Putup Type | Length   | UPC          |
|---------------|-------|------------|----------|--------------|
| 734C3 0081000 | Gray  | Reel       | 1,000 ft | 612825184294 |
| 734C3 0083000 | Gray  | Reel       | 3,000 ft | 612825184300 |
| 734C3 0085000 | Gray  | Reel       | 5,000 ft | 612825184324 |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.146 Revision Date: 04-06-2020 |
|----------------------|--------------------------------------------------|

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