
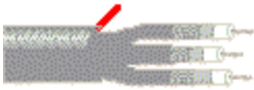


Product: [734C3](#) 



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

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

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

Inner Jacket

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

Outer Shield

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

Outer Jacket

| 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 Frequency

| 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 |
| Other Specification: | 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 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| 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 | Put-Up 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: 0.174 Revision Date: 12-15-2021 |
|----------------------|--|

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