



Product: [734C8](#)

DS-3 and DS-4, 734C Series, #20-8 SPC Coax, CMR/CMG

Product Description

20 AWG solid .032" silver-plated copper conductors, gas-injected FHDPE insulation, Duobond®; tinned copper braid shield (85% coverage), inner PVC Jacket, overall PVC jacket with ripcord.

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 | 8 |
| Conductor Count: | | 8 | | |

| 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 | Tri-Laminate (Alum+Poly+Alum) | Duobond® | 100% |
| Braid | 2 | Tinned Copper (TC) | | 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 | 0.86 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

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

Mechanical Characteristics

| | |
|------------------------------|---------------|
| Bulk Cable Weight: | 30 lbs/1000ft |
| Max. Pull Tension: | 483 lbs |
| Min Bend Radius (Overall): | 8.5 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 GR-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): | 2007-04-09 |
| 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 |
|---------------|-------|------------|----------|--------------|
| 734C8 0081000 | Gray | Reel | 1,000 ft | 612825184379 |
| 734C8 0082000 | Gray | Reel | 2,000 ft | 612825184386 |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.285 Revision Date: 09-30-2020 |
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