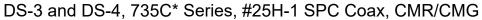


Product: <u>735C1</u> ☑





Product Description

25H AWG solid .017" silver-plated copper conductors, foam HDPE insulation, Duobond® (100% coverage) plus a tinned copper braid shield (95% coverage), inner PVC jackets, overall PVC jacket

Technical Specifications

Product Overview

| Suitable Applications: | Central Office wiring for DS3 transmissions |
|------------------------------------|---|
| Physical Characteristics (Overall) | |

Conductor

| AWG | Stranding | Material | Nominal Diamete | No. of Coax |
|------------------|-----------|--------------------------------------|-----------------|-------------|
| 25 | Solid | SCCS - Silvered Copper Covered Steel | 0.017 in | 1 |
| Conductor Count: | | 1 | | |

Insulation

| Material | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.077 in |

Inner Shield

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|--------------|-------|-------------------------------|---------------------|--------------|
| Tape | 1 | Tri-Laminate (Alum+Poly+Alum) | Duobond® | 100% |
| Braid | 2 | Tinned Copper (TC) | | 95% |
| Table Notes: | | Тар | e bonded to diele | |

Outer Jacket

| Material | Nominal Diameter | Ripcord |
|--------------------------|------------------|---------|
| PVC - Polyvinyl Chloride | 0.134 in | Yes |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|--------------------------|--|--------------------------|---------------------|
| 40 Ohm/1000ft | 40 Ohm/1000ft | 5.3 Ohm/1000ft | 5.3 Ohm/1000ft |

Capacitance

Nom. Capacitance Conductor to Shield
17.7 pF/ft

Inductance

Nominal Inductance

Impedance

Nominal Characteristic Impedance

Return Loss (RL)

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

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.29 ns/ft | 79% |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 5 MHz | 1.1 dB/100ft |
| 10 MHz | 1.5 dB/100ft |
| 22.5 MHz | 2.3 dB/100ft |
| 50 MHz | 3.4 dB/100ft |
| 100 MHz | 4.99 dB/100ft |
| 150 MHz | 6 dB/100ft |

Voltage

UL Voltage Rating 300 V RMS

Temperature Range

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

Mechanical Characteristics

| Bulk Cable Weight: | 13 lbs/1000ft |
|----------------------------|---------------|
| Max. Pull Tension: | 36 lbs |
| Min Bend Radius (Overall): | 1.5 in |

Standards

| NEC/(UL) Compliance: | CMR |
|-----------------------|---------|
| CEC/C(UL) Compliance: | CMG |
| RG Type: | Mini 59 |

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

| uitability - 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 |
|---------------|----|

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|---------------|-------|-------------|----------|--------------|
| 735C1 0081000 | Gray | Reel | 1,000 ft | 612825184881 |
| 735C1 0083000 | Gray | Reel | 3,000 ft | 612825184898 |
| 735C1 0085000 | Gray | Reel | 5,000 ft | 612825184911 |

Footnote: C - CRATE REEL PUT-UP.

History

| Update and Revision: | Revision Number: 0.330 Revision Date: 04-29-2024 |
|----------------------|--|

© 2024 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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Belden Wire & Cable:

735C1 0083000 735C1 0085000 735C1 0081000