
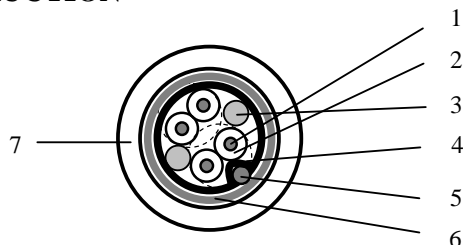


|   |                             |         |                   |
|---|-----------------------------|---------|-------------------|
|  | <b>TECHNICAL DATA SHEET</b> | code    | <b>9842</b>       |
|   |                             | version | <b>2</b>          |
|   |                             | date    | <b>2005-11-03</b> |
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## APPLICATION

Instrumentation and computer cable for EIA RS-485 data transmission applications.

## CONSTRUCTION




|                              |  |
|------------------------------|--|
| <b>1. Conductor</b>          | AWG24 (7xAWG32) tinned Cu  |
| <b>2. Insulation</b>         |  |
| Material                     | Polyethylene   |
| Diameter over insulation     | 1.73 ± 0.05 mm   |
| Colour of insulation         | Pair 1: White/blue, blue/white<br>Pair 2: White/orange, orange/white |
| <b>3. Filler (2x)</b>        |  |
| Material                     | Polypropylene  |
| Diameter                     | 2.87 mm  |
| Colour                       | White  |
| <b>4. Foil (Z-fold®)</b>     |  |
| Material                     | Aluminium / Polyester  |
| Thickness                    | 9 / 23 µm  |
| <b>5. Drainwire</b>          | AWG20 (7xAWG28) tinned Cu  |
| <b>6. Braiding</b>           |  |
| Material                     | 0.122 mm tinned Cu   |
| Coverage                     | 90%  |
| <b>7. Sheath</b>             |  |
| Material                     | PVC  |
| Colour                       | Chrome 060   |
| Thickness of sheath          | 0.89 ± 0.08 mm   |
| Nominal diameter over sheath | 8.65 mm  |

## REQUIREMENTS AND TEST METHODS

### Electrical:

|   |                     |
|---|---------------------|
| Nominal resistance conductor                          | 78.7 Ω/km           |
| Nominal resistance shield                             | 7.2 Ω/km            |
| Nominal capacitance conductor to conductor            | 42.0 pF/m           |
| Nominal capacitance conductor to shield + other cond. | 75.5 pF/m           |
| Nominal impedance @ 1 MHz                             | 120 Ω               |
| Nominal velocity of propagation                       | 66 %                |
| Nominal delay   | 5.2 ns/m            |
| Nominal attenuation @ 1 MHz                           | 1.97 dB/100m        |
| Testvoltage conductor-conductor                       | 2500 VDC, 3 seconds |

|   |                             |         |                   |
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|   |  |
|---|--|
| Testvoltage conductor-screen                    | 2500 VDC, 3 seconds                                      |
| Voltage rating                                  | 300 V RMS (CM application)<br>30 V RMS (AWM application) |
| Maximum continues current per conductor @ 25 °C | 2.1 A  |

**Mechanical and physical:**

|  |   |
|--|---|
| Applicable specification                   | UL NEC type CM or AWM 2919,<br>CEC C(UL) CM |
| Temperature range processing and operating | -15 to +80 °C                               |
| Temperature range storage                  | -30 to +80 °C                               |
| Minimum bending radius                     | 10 x cable diameter                         |
| Maximum pulling tension                    | 395 N                                       |

**MARKING**

Colour code 2120: chrome sheath with text 'BELDEN V 9842 CM 2PR24 SHIELDED (UL) E 108998 OR AWM 2919 LOW VOLTAGE COMPUTER CABLE OR C(UL) CM'

**PACKAGING**

On non-returnable reels with a length of 153 m (± 0%) or on non-returnable reels with a length of 305 m (± 0%) or on non-returnable reels with a length of 610 m (± 0%) or unreel package with a length of 153 m (± 0%) or unreel package with a length of 305 m (± 0%).

Each reel is labelled with the following data:

Belden Logo. Belden code number. Item description. Length on the reel. Date of manufacture. CE-marking.



Belden CDT believes this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.

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