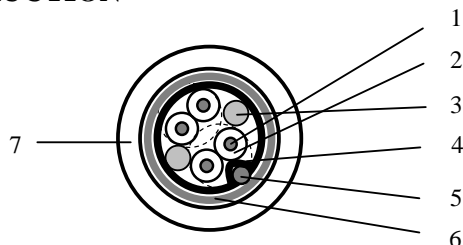
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APPLICATION

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

CONSTRUCTION




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