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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 \pm 0.05 mm

Colour of insulation Pair #1: White/blue and blue/white

Pair #2: White/orange and Orange/white Pair #3: White/Green and Green/white Pair #4: White/Brown and Brown/white

3. Foil (Z-fold®)

Material Aluminium / Polyester

Thickness 9 / 23 µm

4. Drainwire AWG24 (7xAWG32) tinned Cu

5. Braiding

Material 0.122 mm tinned Cu

Coverage 90%

6. Sheath

Material FRNC (UV stabilised)
Colour Chrome (like RAL 7037)

Nom. thickness of sheath 0.89 mm Diameter over sheath 9.90 \pm 0.25 mm

REQUIREMENTS AND TEST METHODS

Electrical:

Nominal resistance conductor 78.7 Ω /km Nominal resistance shield 6.9 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 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

Testvoltage conductor-conductor

Testvoltage conductor-screen

2500 VDC, 3 seconds

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

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Mechanical and physical:

Flame resistance IEC 60332-3C
Oil resistance ASTMD741
Radiation resistance IEC544 (CERN)

Application specification BS 7655 section 6.1 table 1, LTS 3

Halogen content according to IEC754-1 zero

Corrosivity of fire gasses according to IEC754-2

Conductivity $\leq 100 \,\mu\text{S/cm}$ pH value ≥ 3.5

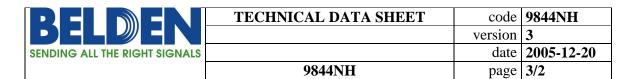
Temperature range installing $-15 \text{ to } +80 \text{ }^{\circ}\text{C}$ Temperature range operating (moving installation) $-15 \text{ to } +80 \text{ }^{\circ}\text{C}$ Temperature range operating (fixed installation) $-45 \text{ to } +80 \text{ }^{\circ}\text{C}$ Temperature range storage $-45 \text{ to } +80 \text{ }^{\circ}\text{C}$

Minimum bending radius 10 x cable diameter

Maximum pulling tension 500 N

MARKING

'BELDEN V 9844NH 4PR 24AWG SHIELDED LSNH IEC 332-3C'





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.