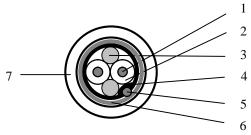


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APPLICATION

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 White/blue and blue/white

3. Filler (2x)

Material Polypropylene
Diameter 1.90 mm
Colour White

4. Foil (Beldfoil®)

Material Aluminium / Polyester

Thickness $9/23 \mu m$

5. Drainwire AWG24 (7xAWG32) tinned Cu

6. Braiding

Material 0.122 mm tinned Cu

Coverage 90%

7. Sheath

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

Nominal thickness 0.89 mm Nominal diameter 5.90 mm



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REQUIREMENTS AND TEST METHODS

Electrical:

Nominal resistance conductor $78.7 \Omega/\text{km}$ $11.0 \Omega/km$ Nominal resistance shield Nominal capacitance conductor to conductor 42.0 pF/m Nominal capacitance conductor to shield + other cond. 75.5 pF/m Nominal impedance @ 1 MHz 120Ω Nominal velocity of propagation 66 % Nominal delay 5.2 ns/m Nominal attenuation @ 1 MHz $1.97 \, dB/100 m$

Testvoltage conductor-conductor 2500 VDC, 3 seconds 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:

Flame resistance IEC 60332-3-24
Oil resistance IEC 60811-2-1
Radiation resistance IEC 60544 (CERN)

Application specification BS 7655 section 6.1 table 1, LTS 3

Halogen content according to IEC 60754-1 zero

Corrosivity of fire gasses according to IEC 60754-2

 $\begin{array}{ccc} Conductivity & \leq 100 \ \mu S/cm \\ pH \ value & \geq 3.5 \\ Smoke emission & IEC 61034 \\ Temperature range installing & -15 \ to +80 \ ^{\circ}C \\ Temperature range operating (moving installation) & -45 \ to +80 \ ^{\circ}C \\ Temperature range storage & -45 \ to +80 \ ^{\circ}C \\ \end{array}$

Maximum pulling tension 328 N

PACKAGING

Minimum bending radius

Each reel is labelled with the following data:

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

10 x cable diameter



Belden declares 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.