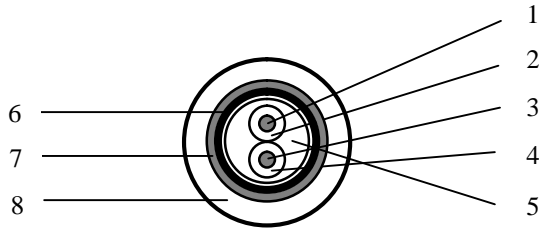
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APPLICATION

Twinaxial instrumentation and computer cable for data transmission applications.

CONSTRUCTION




1. Conductor	AWG20 (7xAWG28) bare Cu
2. Insulation	
Material	Polyethylene
Diameter over insulation	2.11 ± 0.08 mm
Colour of insulation	Clear
3. Conductor	AWG20 (7xAWG28) tinned Cu
4. Insulation	
Material	Polyethylene
Diameter over insulation	2.11 ± 0.08 mm
Colour of insulation	Clear
5. Dielectric	
Material	Polyethylene
Diameter over dielectric	5.99 ± 0.15 mm
Colour of dielectric	Clear
6. Foil (Duofoil®)	
Material	Aluminium/ Polyester/ Aluminium
Thickness	9 / 23 / 9 µm
7. Braiding	
Material	AWG34 tinned Cu
Coverage	85 %
8. Sheath	
Material	FRNC
Colour	Black
Nominal thickness	0.89 mm
Nominal diameter over sheath	8.60 mm

REQUIREMENTS AND TEST METHODS

Electrical:

Nominal resistance conductor @ 20 °C	31.2 Ω/km
Nominal resistance shield @ 20 °C	6.6 Ω/km
Nominal capacitance conductor to conductor	47.6 pF/m
Nominal capacitance conductor to shield	75.5 pF/m
Nominal impedance	100 Ω
Nominal velocity of propagation	66 %
Nominal delay	5.1 ns/m

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Nominal inductance	0.51 μ H/m
Nominal attenuation @ 1 MHz	0.98 dB/100m
Nominal attenuation @ 10 MHz	3.94 dB/100m
Nominal attenuation @ 50 MHz	9.19 dB/100m
Nominal attenuation @ 100 MHz	13.45 dB/100m
Nominal attenuation @ 200 MHz	21.00 dB/100m
Nominal attenuation @ 400 MHz	33.46 dB/100m
Testvoltage conductor-screen	2500 VDC, 3 seconds
Voltage rating	300 V RMS

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	$\leq 100 \mu$ S/cm
pH value	≥ 3.5
Temperature range installing	-15 to +80 °C
Temperature range operating (moving installation)	-15 to +80 °C
Temperature range operating (fixed installation)	-45 to +80 °C
Temperature range storage	-45 to +80 °C
Minimum bending radius	10 x cable diameter

PACKAGING

On non-returnable reels (E 500) with a nominal length of 305m (-0, +10%) or on non-returnable reels (E 600) with a nominal length of 500m (-0, +10%) or on non-returnable reels (E 630) with a nominal length of 1000m (-0, +10%).

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 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.