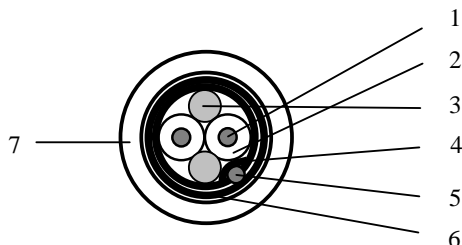
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APPLICATION

Twinaxial instrumentation and computer cable for data transmission applications.

CONSTRUCTION




1. Conductor	AWG22 (19xAWG34) tinned Cu
2. Insulation	
Material	Foamed high density Polyethylene
Diameter over insulation	3.45 ± 0.10 mm
Colour of insulation	Black and yellow
3. Filler (2x)	
Material	Foamed fibrillated Polypropylene
Diameter	2.92 mm
Colour	White
4. Foil (Duofoil®)	
Material	Aluminium/Polyester/Aluminium
Thickness	9 / 23 / 9 µm
5. Drainwire	AWG22 (19xAWG34) tinned Cu
6. Foil	
Material	Polyester
Thickness	23 µm
7. Sheath	
Material	FRNC (UV stabilised)
Colour	Black
Nominal thickness	0.89 mm
Nominal diameter	8.80 mm

REQUIREMENTS AND TEST METHODS

Electrical:

Nominal resistance conductor @ 20 °C	45.9 Ω/km
Nominal resistance shield @ 20 °C	20.7 Ω/km
Nominal capacitance conductor to conductor	28.9 pF/m
Nominal capacitance conductor to shield	54.1 pF/m
Nominal impedance	150 Ω
Nominal velocity of propagation	78 %
Nominal delay	4.3 ns/m
Nominal inductance	0.96 µH/m
Nominal attenuation @ 1 MHz	1.31 dB/100m
Nominal attenuation @ 5 MHz	2.79 dB/100m
Nominal attenuation @ 10 MHz	3.94 dB/100m

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Nominal attenuation @ 20 MHz	5.58 dB/100m
Nominal attenuation @ 50 MHz	8.86 dB/100m
Nominal attenuation @ 100 MHz	14.11 dB/100m
Nominal attenuation @ 200 MHz	20.34 dB/100m
Nominal attenuation @ 400 MHz	28.87 dB/100m
Testvoltage conductor-conductor	2500 VDC, 3 seconds
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	≤ 100 μS/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 560) with a nominal length of 500m (-0, +10%) or on non-returnable reels (E 600) 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 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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