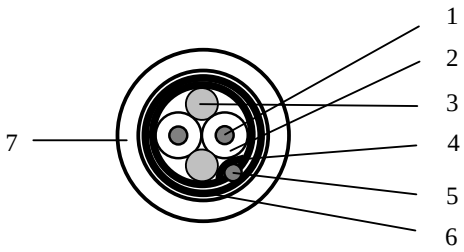
APPLICATION

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

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.