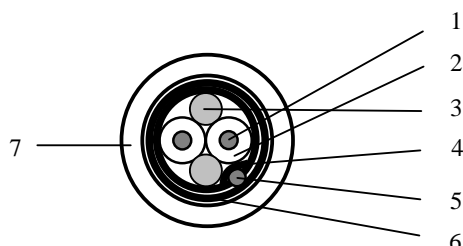
	<b>TECHNICAL DATA SHEET</b>	code	<b>9182NH</b>
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## APPLICATION

Twinaxial instrumentation and computer cable for data transmission applications.

## CONSTRUCTION




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