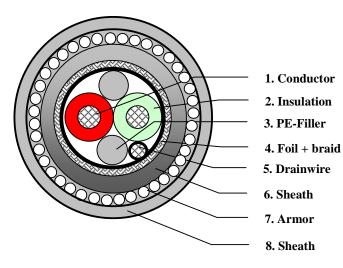
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SENDING ALL THE RIGHT SIGNALS				
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APPLICATION

Instrumentation and computer cable for Data Transmission applications.

CONSTRUCTION



1. Conductor

2. Insulation

Material Diameter over insulation Nominal insulation thickness

Colour of insulation

3. PE filler

4. Foil + Braid

Material Thickness

Coverage of braided screen

5. Drainwire

6. Sheath

Material

Nominal jacket thickness Nominal diameter over jacket

Colour

7. Armouring

Material

Optical coverage

8. Sheath

Material Colour

Average thickness of sheath

Diameter over sheath

18 AWG (7x26AWG) tinned copper wire

Foamed polyethylene

 $2.50 \pm 0.05 \text{ mm}$

0.65 mm

Red and Green

nom 1.65 mm

Aluminium / Polyester

 $9/23 \mu m$

> 85%

20 AWG (7x28AWG) tinned copper wire

(in contact with foil and braid)

FRNC (UV stabilised)

1.15 mm

8.0 mm

Black

galvanised steel wire 0.9 mm

>95 %

FRNC (UV stabilised)

Blue

> 1.27 mm

 $12.8 \pm 0.30 \text{ mm}$

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REQUIREMENTS AND TEST METHODS

Electrical:

Max. operating voltage		300	V rms
Max. capacitance between conductors of a pair @ 1kHz		80	nF/km
Max. capacitance unbalance cond. to shield @ 1 kHz		4	nF/km
Maximum conductor DC-resistance @ 20°C		20.5	Ω/km
Maximum shield DC-resistance @ 20°C		9.0	Ω/km
Nom. velocity of propagation		77	%
Impedance @ 31.25 kHz		100 +/-	20Ω
Max. attenuation @ 39 kHz	0.3	dB/100m	

Mechanical and physical:				
Flame resistance	IEC 332-3C			
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 +70 °C			
Temperature range operating (moving installation)	-15 to +70 °C			
Temperature range operating (fixed installation)	-45 to +70 °C			
Temperature range storage	-45 to +70 °C			
Minimum bending radius /setting	120 / 80 mm			
Maximum pulling tension	50 N			



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.