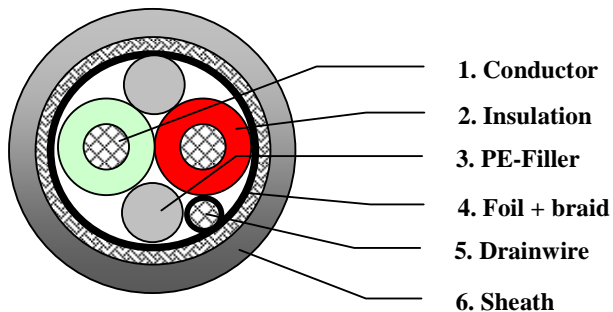
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APPLICATION

Instrumentation and computer cable for Data Transmission applications.

CONSTRUCTION



- | | |
|------------------------------|---|
| 1. Conductor | 18 AWG (7x26AWG) tinned copper wire |
| 2. Insulation | |
| Material | Foamed polyethylene |
| Diameter over insulation | 2.50 ± 0.05 mm |
| Nominal insulation thickness | 0.65 mm |
| Colour of insulation | Red and Green |
| 3. PE filler | nom 1.65 mm |
| 4. Foil + Braid | |
| Material | Aluminium / Polyester |
| Thickness | 9 / 23 µm |
| Coverage of braided screen | > 85% |
| 5. Drainwire | 20 AWG (7x28AWG) tinned copper wire
(in contact with foil and braid) |
| 6. Sheath | |
| Material | FRNC (UV stabilised) |
| Nominal jacket thickness | 1.15 mm |
| Nominal diameter over jacket | 8.0 mm |
| Colour | BLACK |

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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 +/-	20 Ω
Nominal attenuation @ 39 kHz	0.3	dB/100m

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 +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	260 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.