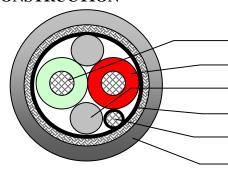
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SENDING ALL THE RIGHT SIGNALS					

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## **APPLICATION**

Instrumentation and computer cable for Data Transmission applications.

## **CONSTRUCTION**



- 1. Conductor
- 2. Insulation
- 3. PE-Filler
- 4. Foil + braid
- 5. Drainwire
- 6. Sheath

## 1. Conductor

18 AWG (7x26AWG) tinned copper wire

## 2. Insulation

MaterialFoamed polyethyleneDiameter over insulation $2.50 \pm 0.05 \text{ mm}$ Nominal insulation thickness0.65 mmColour of insulationRed and Green

# 3. PE filler

nom 1.65 mm

#### 4. Foil + Braid

 $\begin{array}{ll} \text{Material} & \text{Aluminium / Polyester} \\ \text{Thickness} & 9 \, / \, 23 \, \mu m \\ \text{Coverage of braided screen} & > 85\% \end{array}$ 

#### 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	$\Omega$ /km
Maximum shield DC-resistance @ 20°C	9.0	$\Omega$ /km
Nom. velocity of propagation	77	%
Impedance @ 31.25 kHz	100 +/-	$\sim 20 \Omega$
Nominal attenuation @ 39 kHz	0.3	dB/100m

# Mechanical and physical:

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	$-15 \text{ to } +70 ^{\circ}\text{C}$		
Temperature range operating (moving installation)	$-15 \text{ to } +70 ^{\circ}\text{C}$		
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 declares 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.