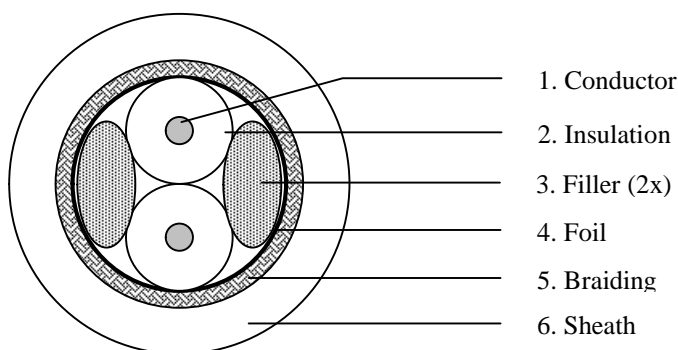
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## APPLICATION

Instrumentation and computer cable for Data Transmission applications such as Profibus.

## CONSTRUCTION



<b>1. Conductor</b>	AWG22 solid bare Cu
<b>2. Insulation</b>	
Material	Foam skinned Polyethylene
Diameter over insulation	$2.51 \pm 0.09$ mm
Nominal thickness of skin	0.05 mm
Colour of insulation	Red and green
<b>3. Filler (2x)</b>	
Material	FR-polypropylene
Diameter	2.54 mm
Colour	Blue
<b>4. Foil (Z-fold®)</b>	
Material	Aluminium / Polyester
Thickness	25 / 50 $\mu$ m
<b>5. Braiding</b>	
Material	AWG36 tinned Cu
Coverage	65%
<b>6. Sheath</b>	
Material	FRNC
Colour	Chrome (like RAL 7037)
Nominal sheath thickness	1.10 mm
Nominal diameter over sheath	8.00 mm

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## REQUIREMENTS AND TEST METHODS

### Electrical:

Nominal resistance conductor	52 $\Omega$ /km
Nominal capacitance conductor to conductor @ 1kHz	27.9 pF/m
Capacitance unbalance @ 1kHz	< 1000 pF/km
Impedance (3 – 20 MHz)	150 $\pm$ 15 $\Omega$
Nominal velocity of propagation	78 %
Maximum attenuation @ 0.2 MHz	0.9 dB/100m
Maximum attenuation @ 4 MHz	2.2 dB/100m
Maximum attenuation @ 16 MHz	4.5 dB/100m
Testvoltage conductor-conductor	2500 VDC, 3 seconds
Testvoltage conductor-screen	2500 VDC, 3 seconds
Voltage rating	300 V RMS

\*Nominal values are for information only.

### 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	$\leq$ 100 $\mu$ S/cm
pH value	$\geq$ 3.5
Temperature range installing	-15 to +80 $^{\circ}$ C
Temperature range operating (moving installation)	-15 to +80 $^{\circ}$ C
Temperature range operating (fixed installation)	-45 to +80 $^{\circ}$ C
Temperature range storage	-45 to +80 $^{\circ}$ C
Maximum pulling tension	220 N
Minimum bending radius	10 x cable diameter

## PACKAGING

On non-returnable reels (E 500) with a nominal length of 500m (-0, 0%)

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 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.