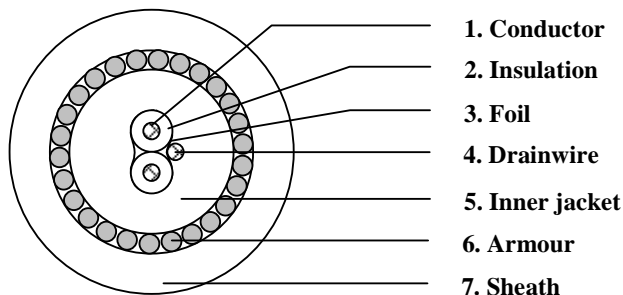
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APPLICATION

Instrumentation and computer cable for Data Transmission applications.

CONSTRUCTION



1. Conductor	22 AWG (7x30AWG) tinned copper wire
2. Insulation	
Material	Polyolefin
Diameter over insulation	1.50 ± 0.05 mm
Nominal insulation thickness	0.375 mm
Colour of insulation	White and Black
3. Foil	
Material	Aluminium / Polyester
Thickness	9 / 23 µm
4. Drainwire	22 AWG (7x30AWG) tinned copper wire
5. Sheath	
Material	FRNC
Nominal jacket thickness	2.15 mm
Nominal diameter over jacket	7.5 mm
Colour	Available in the colours Orange en Blue.
6. Armour	
Material	Corrugated Steel 0.90 mm
Optical coverage	>95 %
7. Sheath	
Material	FRNC
Nominal jacket thickness	1.85 mm
Nominal diameter over jacket	13.0 mm
Colour	Available in the colours blue and black.

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REQUIREMENTS AND TEST METHODS

Electrical:

Max. operating voltage	300	V rms
Max. capacitance between conductors of a pair @ 1kHz	85	nF/km
Max. capacitance conductor to other cond. and shield @ 1 kHz	160	nF/km
Max. conductor DC-resistance @ 20°C	52.5	Ω/km
Max. shield DC-resistance @ 20°C	41.5	Ω/km
Nom. velocity of propagation	66	%
Impedance @ 31.25 kHz	100 +/-	5Ω
Max. attenuation @ 10 kHz	0.61	dB/100m
@ 39 kHz	0.67	dB/100m
@ 100 kHz	0.91	dB/100m
@ 500 kHz	3.50	dB/100m
@ 1 MHz	5.10	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 +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	140 mm
Maximum pulling tension	50 N

MARKING

Colour code 3358: black sheath with text:

Colour code 3359: blue sheath with text:

‘BELDEN V 3077ELS 1PR 22AWG SHIELDED LSNH


SWA LSNH FIELDBUS CABLE IEC 332-3C’

PACKAGING

On non-returnable reels with a nominal length of 500m (-0, +0%) or on non-returnable reels with a nominal length of 1000m (-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.

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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.