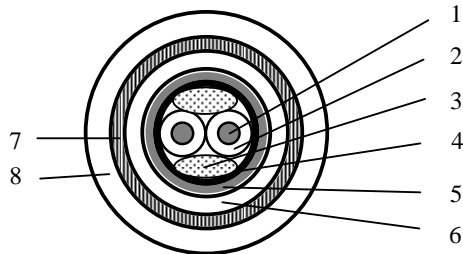
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APPLICATION

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

CONSTRUCTION



1. Conductor	AWG22 solid bare Cu
2. Insulation	
Material	Foam skinned Polyethylene
Diameter over insulation	2.51 ± 0.09 mm
Nominal thickness of skin	0.05 mm
Colour of insulation	Red and green
3. Filler (2x)	
Material	FR-Polypropylene
Diameter	2.54 mm
Colour	White
4. Foil (Z-fold®)	
Material	Aluminium / Polyester
Thickness	25 / 50 µm
5. Braiding	
Material	AWG36 tinned Cu
Coverage	65%
6. Sheath	
Material	FRNC
Colour	Chrome (like RAL 7037)
Thickness of sheath	1.10 ± 0.10 mm
Diameter over sheath	8.00 ± 0.20 mm
7. Armouring	
Material	Single steel wire 0.90 mm
Optical coverage	>95 %
8. Sheath	
Material	FRNC
Colour	Black
Thickness of sheath	1.30 ± 0.10 mm
Diameter over sheath	12.40 ± 0.10 mm

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REQUIREMENTS AND TEST METHODS

Electrical:

Nominal resistance conductor	52 Ω /km
Nominal capacitance conductor to conductor @ 1kHz	27.9 pF/m
Capacitance unbalance @ 1kHz	< 1000 pF/km
Impedance (3 – 20 MHz)	150 \pm 15 Ω
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

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 μ 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
Minimum bending radius	15 x cable diameter

MARKING


Colour code 2159: black sheath with text 'BELDEN V 3079ALS 1PR 22AWG SHIELDED LSNH SWA LSNH IEC 332-3C'

PACKAGING

On non-returnable reels (E 800) with a nominal length of 500m (-0, +20%) or on non-returnable reels (E 1000) with a nominal length of 1000m (-0, +20%).

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.