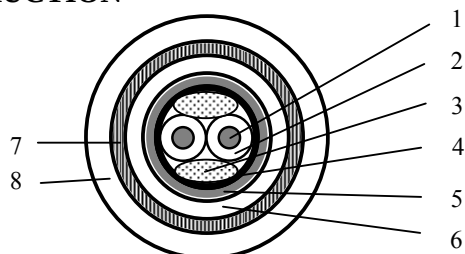


	TECHNICAL DATA SHEET		code	3079ALS
			version	6
			date	2006-06-16
	3079ALS		page	1/2

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 |
| 5. Foil (Z-fold®) | |
| Material | Aluminium / Polyester |
| Thickness | 25 / 50 μ m |
| 6. Braiding | |
| Material | AWG36 tinned Cu |
| Coverage | 65% |
| 7. Sheath | |
| Material | FRNC |
| Colour | Chrome (like RAL 7037) |
| Thickness of sheath | 1.10 ± 0.10 mm |
| Diameter over sheath | 8.00 ± 0.20 mm |
| 8. Armouring | |
| Material | Single steel wire 0.90 mm |
| Optical coverage | >95 % |
| 9. Sheath | |
| Material | FRNC |
| Colour | Black |
| Thickness of sheath | 1.30 ± 0.10 mm |
| Diameter over sheath | 12.40 ± 0.10 mm |

	TECHNICAL DATA SHEET		code	3079ALS
			version	6
			date	2006-06-16
	3079ALS		page	2/2

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 °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	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.

	TECHNICAL DATA SHEET	code	3079ALS
		version	6
		date	2006-06-16
	3079ALS	page	3/2



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.