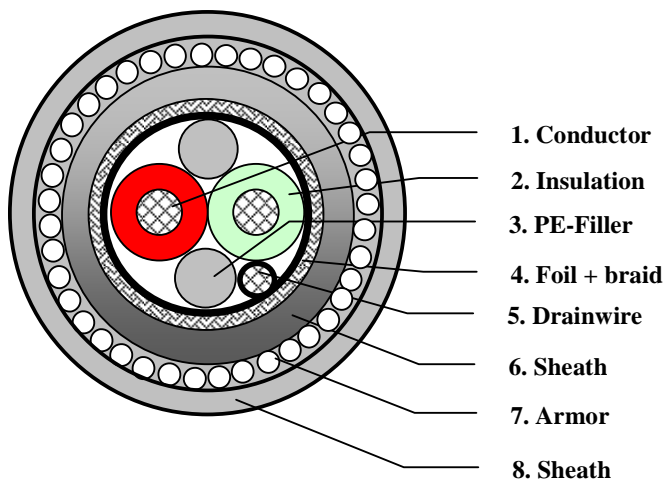
	TECHNICAL DATA SHEET		code	70001LS
	PROFIBUS ELS CABLE		version	1
			date	2006-04-28
			page	1/2


APPLICATION

Instrumentation and computer cable for Data Transmission applications.

CONSTRUCTION



1. Conductor	18 AWG (7x26AWG) tinned copper wire
2. Insulation	
Material	Foamed polyethylene
Diameter over insulation	2.50 ± 0.05 mm
Nominal insulation thickness	0.65 mm
Colour of insulation	Red and Green
3. PE filler	nom 1.65 mm
4. Foil + Braid	
Material	Aluminium / Polyester
Thickness	9 / 23 µm
Coverage of braided screen	> 85%
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
7. Armouring	
Material	galvanised steel wire 0.9 mm
Optical coverage	>95 %
8. Sheath	
Material	FRNC (UV stabilised)
Colour	Black
Average thickness of sheath	> 1.27 mm
Diameter over sheath	12.8 ± 0.30 mm

	TECHNICAL DATA SHEET		code	70001LS
	PROFIBUS ELS CABLE		version	1
			date	2006-04-28
			page	2/2

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	Ω/km
Maximum shield DC-resistance @ 20°C	9.0	Ω/km
Nom. velocity of propagation	77	%
Impedance @ 31.25 kHz	100 +/-	20 Ω
Max. attenuation @ 39 kHz	0.3	dB/100m

Mechanical and physical:

Flame resistance	IEC 332-3C
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 +70 °C
Temperature range operating (moving installation)	-15 to +70 °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	50 N



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.