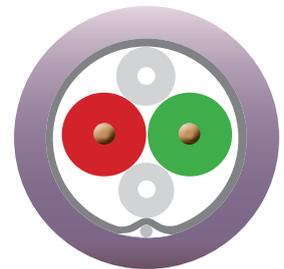


Technical Data Sheet

Profibus-Cable

System Interface	
Bare copper wire (22 AWG)	Ø 0,65 mm
Insulation of foamed Polyethylen (PE) with skin	Ø 2,55 mm
System Interface	
2 wires, RD and GN twisted to a pair with fillers in gaps	
Alulaminat foil overlapped, Alu outside	
Shield braiding of tinned copper wires 0.15 mm dia	
Coverage about 55%	
Slitting cord under jacket	
Jacket	
Polyvinylchloride (PVC) VT	
Wall thickness about 1.0 mm	ø (8.0 ±0.4) mm
Printing: „sequential length in metres“ profichip PROFIBUS PLUS L2 * 22AWG (SHIELDED) (UL) E119100, CMG 75 °C or PLTC or AWM 20201 600V FT4 SUN RES *, „internal lot number“	
Textintervals about 1000 mm	
Electrical data at 20°C	
Loop resistance	≤ 110 Ohm/km
Insulation resistance	≥ 16000 MOhm*km
Characteristic Impedance	
3 - 20 MHz	(150 ± 15) Ohm
31.25 - 38.4 kHz	(185 ± 18.5) Ohm
9.6 kHz	(270 ± 27) Ohm
Attenuation	
16 MHz	< 42 dB/km
4 MHz	< 22 dB/km
38,4 MHz	< 4 dB/km
9,6 MHz	< 2,5 dB/km
Inductance 31,25 kHz	≈ 750 µH/km
Capacitance 1 kHz	≈ 28 nF/km
Capacitance unbalance to ground	≤ 1500 pF/km
Operating Voltage (Peak)	≤ 100 V
UL-Rating	600 V
Test voltage (50Hz, 1min)	2000 V DC



Mechanical and thermal characteristics	
Conductor material acc. to DIN EN 13602 Cu-ETP-A...	
Screen material acc. to DIN EN 13602 Cu-ETP-A...-B	
Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3)	
Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compoundtype TM52 (HD 624.2)	
Cold bend test acc. DIN IEC 60811-1-4 -40° C	
Flame retardant acc. to UL 1685 (CSA FT 4)	
UL-File E119100 Vol.1 Sec.16 Page 7	
UL-File E116441 Vol.1 Sec.6 Page 7	
UL-Style 20201	
Other characteristics	
Limited mineral oil and fats resistance	
Flame retardant acc. to IEC 60332-3-24 (Cat. C)	
Sunlight resistant acc. to UL 1581 Sec.1200	
Permissible temperature range	-40 °C up to + 80°C
Bending Diameter	≥ 150 mm
Pulling force with	≤ 100 N
PVC weight with Phthalate	32.1 kg/km
PVC weight without Phthalate	0.0 kg/km
Weight about	63 kg/km
Designation of order	
830-0LC00	100 meter ring
830-0LD00	200 meter ring
830-0LE00	500 meter on non-returnable reel
02YS(ST)CY	1X2X0.64/2.55-150 VI KF40 FR