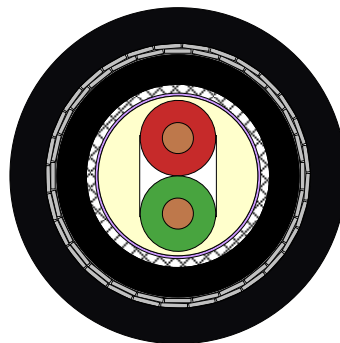


FieldLink®

PROFIBUS PA ES
with rodent protection



Design

Wire

Bare copper wire

∅ 1.05 mm (0,041 in)

Insulation of foamed Polyethylene (PE) with skin

∅ 2.55 mm (0,100 in)

Core:

2 wires, RD and GN twisted to a pair

Plastic tape, overlapped

Inner-jacket: Polyvinylchloride (PVC)

∅ 5.4 mm (0,213 in)

Alulaminat foil overlapped, applied longitudinally

Shield braiding of tinned copper wires 0.15 mm dia

Coverage about 90%

∅ 6.2 mm (0,244 in)

Jacket:

Polyvinylchloride (PVC) BK

Wall thickness about 0.9 mm

∅ (8.0 ±0.4) mm (0.315 ±0.016 in)

Printing: "sequential length in metres" LEONI L PROFIBUS FMS ES 18AWG (SHIELDED) SUN RES OIL RES

Armoring: 2 layer galvanized steel tape 12X0.1
intercalated tapes

Jacket:

Polyethylene (PE) BK

Wall thickness about 1.2 mm

∅ (10.8 ±0.5) mm (0,425 ±0,020 in)

Printing: "sequential length in metres" LEONI L PROFIBUS PA ES

Textintervals about 1000 mm

Electrical data at 20°C

Conductor resistance	≤	22	Ohm/km
Insulation resistance	≥	10	MOhm*km
Capacitance (1 kHz wire/wire)	≈	50	nF/km
Capacitance (1 kHz wire/screen)	≈	92	nF/km
Operating voltage		100	V
Characteristic Impedance (31.25 KHz)		(100 ±20)	Ohm
Attenuation (39 KHz)	≤	3	dB/km
Capacitance unbalance e	≤	2	nF/km
Inductance (31.25 KHz)		650	μH/km
Surface transfer impedance (20 MHz)	≤	5	mOhm/m
rel. velocity of propagation	≈	81	%
Test voltage (wire/wire/screen rms 50Hz 1min)		2000	V

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) (02Y)

Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compound type TM52 (HD 624.2)

Jacket material acc. to DIN EN 50290-2-24 (VDE 0819), table 1/2-L/MD (HD 624.4)

Other characteristics:

UV-resistant

Limited mineral oil and fats resistance

Permissible temperature range : -20 °C (-4 °F) up to 80 °C (176 °F)

Min. bending radius allowed : repeated 15X ø, single 7.5X ø

PVC weight with Phthalate : 51 Kg/km

PVC weight without Phthalate : 0.0 Kg/km

Weight about : 170 Kg/km (114 lb/1000ft)

Designation of order:

L45467-J20-C26

209777

02YSY(ST)CYB2Y 1X2X1.0/2.55-100 (2B0.10 VZK)

1000 m (3281 ft) on non-returnable reel