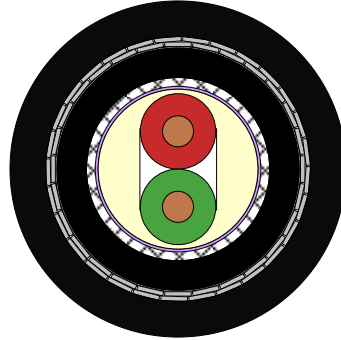


FieldLink®

PROFIBUS PA ES
with rodent protection



Design

Wire

Bare copper wire ø 1.05 mm (0,041 in)
 Insulation of foamed Polyethylene (PE) with skin ø 2.55 mm (0,100 in)

Core

2 wires, RD and GN twisted to a pair
 Plastic tape, overlapped
 Inner-Jacket Polyvinylchloride (PVC) ø 5.4 mm (0,213 in)
 Alulaminat foil overlapped, applied longitudinally
 Shield braiding of tinned copper wires 0.15 mm dia
 Coverage about 90% ø 6.2 mm (0,244 in)

Inner-Jacket

Polyvinylchloride (PVC) BK
 Wall thickness about 0.9 mm ø (8.0 ±0.4) mm (0.315 ±0.016 in)

| Printing: "sequential length in metres" BizLink Special Cables Germany PROFIBUS FMS ES 18AWG
 (SHIELDED) SUN RES OIL RES * "internal lot number"

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

Jacket

Polyethylene (PE) BK
 Wall thickness about 1.2 mm ø (10.8 ±0.5) mm (0,425 ±0,020 in)

| Printing: "sequential length in metres" BizLink Special Cables Germany PROFIBUS PA ES *
 "internal lot number"

Textintervals about 1000 mm

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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
 Cable is suitable for direct burial (in earth)

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

Product has not been tested and classified according to the CPR (EU/305/2011).
 The product shall not be permanently installed in buildings in the EU.