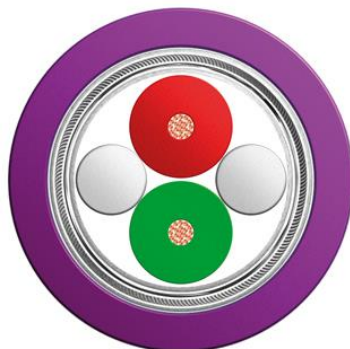


FieldLink®

Profibus DP



Design

Wire

Stranded bare copper wire 19 X 0.16
 Insulation of foamed Polyethylene (PE) with skin

∅ 0.8 mm (0.031 in)
 ∅ 2.56 mm (0.100 in)

Core

2 wires, RD and GN twisted to a pair
 + fillers
 Alulaminare foil overlapped
 Plastic tape conductiv
 Shield braiding of tinned copper wires 0.15 mm dia
 Coverage about 80%
 Plastic tape, overlapped

∅ 6.0 mm (0.236 in)

Jacket

Polyurethane (PUR) VT
 Wall thickness about 1.0 mm

∅ (8.0 ± 0.4) mm (0.315 ± 0.016 in)

Printing: "sequential length in metres" BizLink BCN PROFIBUS (SHIELDED) AWG 22 * E130266-BCN
 cULus AWM STYLE 20233 * AWM I/II A/B 80°C 300V FT1 "year/internal order number"
 Text intervals about 1000 mm

Electrical data at 20°C

Loop resistance		≤	98	Ohm/km
Screen resistance		≤	14	Ohm/km
Insulation-Resistance		≥	16000	MOhm*km
Characteristic Impedance	3 - 20	MHz	(150 ± 15)	Ohm
	38.4	kHz	(185 ± 18.5)	Ohm
	9.6	kHz	(270 ± 27)	Ohm

Date of issue: 08.03.2004

Technical modification reserved

Creator : BSCG| R&D | BRUNS
 Number : L45467-G18-C18-C1-EN

Up-dating : 15.08.2022 Name: YE
 Supersedes : 16.05.2019 E: 17.01.2008 M: 17.01.2008

Attenuation

16 MHz	≤	49 dB/km
4 MHz	≤	25 dB/km
38.4 kHz	≤	3 dB/km
9.6 kHz	≤	2.5 dB/km
Surface transfer impedance 20 MHz	≤	480 mOhm/m
Capacitance unbalance to ground	≤	1500 pF/km
Capacitance 1 kHz		29 nF/km
Operating voltage (effective value)	≤	100 V
rel. velocity of propagation	≈	85 %
Test voltage (DC 3 sec)	=	3600 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)
 Jacket material acc. F45052-F5100 (similar to DIN VDE 0282)
 Flame retardant acc. to IEC 60332-1-2
 UL-Style 20233 (80°C/300V)

Other characteristics

For 360° torsion

Torsional strength

- 5 million cycles at ± 180° on 1 meter (must be tested)
- not adapted for garland mounting

Sunlight resistant

Silicon free

Halogen free

Permissible temperature range

- Operating temperature - 25°C (- 13 °F) up to 75°C (167 °F)
- Transport and storage - 40°C (-40 °F) up to 80°C (176 °F)
- Installation - 25°C (- 13 °F) up to 75°C (167 °F)

Min. bending radius allowed repeated 7,5X ø, single 4X ø

Tensile strength ≤ 100 N

Weight about 66 Kg/km (44 lb/1000ft)

Designation of order

L45467-G18-C18-C1

381532

02YS(ST)C11Y 1X2X0.8/2.56-150 LI FR VI

1000 m (3281 ft) on non-returnable reel

Date of issue: 08.03.2004

Technical modification reserved

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