

02YSY(ST)CY 1X2X0.64/2.55-150 VI KF40 FR ES



Design

Wire

Bare copper wire ø 0.65 mm
 Insulation of foamed Polyethylene (PE) with skin ø 2.55 mm

Core

2 wires RD and GN twisted to a pair
 Plastic tape, overlapped
 Inner-Jacket Polyvinylchloride (PVC) ø 5.4 mm
 Alulaminat foil overlapped, applied longitudinally
 Shield braiding of tinned copper wires
 Coverage about 55% ø 6.2 mm

Jacket

Polyvinylchloride (PVC) VT ø (8.0 ±0.4) mm

Printing: "sequential length in metres" BizLink Special Cables Germany PROFIBUS L2/F.I.P. ES
 L45467-G16-C185 * 22AWG (SHIELDED) (UL) E119100 CMG FT4 75°C or CL3 SUN RES or
 AWM 21694 600V * "internal lot number"
 Textintervals about 1000 mm

Electrical data at 20°C

Loop resistance	≤	110	Ohm/km
Screen resistance	≤	9.5	Ohm/km
Insulation resistance	≥	16	GOhm*km
Characteristic impedance			
	(3 - 20 MHz)	150 ± 15	Ohm
	(31,25 - 38,4 KHz)	185 ± 18.5	Ohm
		270 ± 27	Ohm

Frequency (KHz)	9.6	38,4	4000	16000
Attenuation max. (dB/km)	2.5	4	22	42

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Inductance (31,25 KHz)	≈	900	μH/km
L / R ratio	≤	15	μH/Ω
Capacitance (1 KHz)	≈	28,5	nF/km
Unbalance to ground	≤	1500	pF/km
Surface transfer impedance (20 MHz)	≤	5	mOhm/m
Operating voltage (effective value)	≤	100	V
UL-Rating		600	V
rel. velocity of propagation	≈	81	%
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. to DIN EN 50290-2-22 (VDE 0819), compoundtype TM52 (HD 624.2)
 Cold bend test acc. DIN VDE 0473 part 811-1-4 ; after 16 hour storage at -40° Grad
 Flame retardant acc. to IEC 60332-3-24 (Cat. C)
 Flame retardant acc. to UL 1685 (CSA FT 4)

FILE E119100 Vol.1 Sec.16 Page 7 CMG
 FILE E116441 Vol.1 Sec.6 Page 7 CL3, PLTC
 UL-Style 21694

Other characteristics

RoHS compliant (Directive 2011/65/EU & 2015/863/EU RoHS 3)
 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 : 47.7 Kg/km
 PVC weight without Phthalate : 0.0 Kg/km
 Weight about : 80 kg/km (53 lb/1000ft)

Designation of order

L45467-G16-C185
 202226
 BCA0180
 02YSY(ST)CY 1X2X0.64/2.55-150 VI KF40 FR
 1000 m 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.