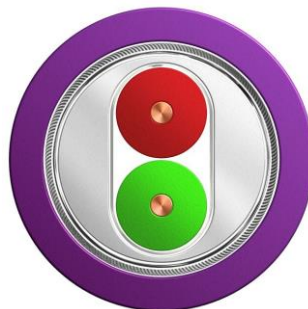


02YSY(ST)C11Y 1X2X0.64/2.55-150 VT KF40 FR



Design

Wire

Bare copper wire	∅ 0.65 mm (0,026 in)
Insulation of foamed Polyethylene (PE) with skin	∅ 2.55 mm (0,100 in)
Wall thickness about 0.95 mm	

Core

2 wires, RD and GN twisted to a pair	
Plastic tape, overlapped	
Inner Jacket Polyvinylchloride (PVC) NF	∅ 5.4 mm (0.213 in)
Alulaminat foil overlapped, applied longitudinally	
Shield braiding of tinned copper wires 0.15 mm dia	
Coverage about 60%	∅ 6.2 mm (0,244 in)

Jacket

Polyurethane (PUR) VT	
Wall thickness about 0.9 mm	∅ (8 ±0.4) mm (0.315 ±0.016 in)

| Printing: "sequential length in metres" BizLink Special Cables Germany PROFIBUS PUR ES * E119100 (UL) CMX 75°C (SHIELDED) AWG 22 * "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	≥	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 kHz	≤	4	dB/km
9.6 kHz	≤	2.5	dB/km

CONFIDENTIALITY: This document and its content must be treated strictly confidential and are property of BizLink Special Cables Germany GmbH

Inductance	31.25	kHz	≈	1000	μH/km
Capacitance	1	kHz	≈	28.5	nF/km
Capacitance unbalance to ground			≤	1500	pF/km
Surface transfer impedance (20 MHz)			≤	5	mOhm/m
Operating voltage (effective value)			≤	100	V
UL-Rating				300	V
rel. velocity of propagation			≈	81	%
Test voltage				3600	V DC 3 sec

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)
 Cold bend test acc. DIN IEC 60811-1-4 -40° C
 Flame test acc. to IEC 60332-1

UL-FILE E119100 VOL.1, SEC.8 PAGE1

Application / Special feature

UV-resistant
 Mineral oil and fat resistance

Permissible temperature range : -40 °C (-40 °F) up to 60 °C (140 °F)
 Bending diameter: ≥ 150 mm
 Pulling force with: ≤ 100 N

PVC weight with Phthalate : 22.7 Kg/km
 PVC weight without Phthalate : 0.0 Kg/km
 Weight about : 71 Kg/km (48 lb/1000ft)

Designation of order

L45467-G16-C118
 203373
 02YSY(ST)C11Y 1X2X0.64/2.55-150 VI KF40 FR
 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.