

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 with fillers in gaps
 Plastic tape, overlapped
 Alulaminat foil overlapped
 Tinned copper drain wire ø 0.65 mm
 Plastic tape, overlapped ø 6.2 mm (0,244 in)
 Outer conductor: copper-tape longitudinal welded.
 Spiral corrugation ø (9.1 ±0.2) mm (0.358 ±0.008 in)

Jacket

Polyvinylchloride (PVC) BU
 Wall thickness about 1.0 mm ø (11.1 ±0.3) mm (0,437 ±0,012 in)

Printing: BizLink Special Cables Germany PROFIBUS PA EMC - CABLE factory-automation.bizlinktech.com

Electrical data at 20°C

Conductor resistance	≤	23	Ohm/km
Insulation resistance	≥	10	MOhm*km
Capacitance	≤	80	nF/km
Operating voltage (peak)	≤	100	V
Test voltage (wire/wire rms 50Hz 1min)	=	1000	V
Test voltage (wire/screen rms 50Hz 1min)	=	800	V
Characteristic impedance (31.25 kHz)		(100 ±20)	Ohm
Attenuation (39 kHz)	≤	3	dB/km
Capacity unbalanced	≤	2	nF/km
Group propagation time distortion (7.9...39 KHz)	≤	1.7	µs/km

Mechanical and thermal characteristics

Conductor/Screen material acc. to DIN EN 13602 Cu-ETP-R...
 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)
 Flame retardant acc. to IEC 60332-1
 Oil resistant acc. to 1581 Sec. 480 (60°)

Other characteristics

UV-resistant
 Permissible temperature range : -25 °C (-13 °F) up to 80 °C (176 °F)
 min. bending diameter allowed: multiple 15X ø, single 10X ø
 PVC weight with Phthalate : 44.2 Kg/km
 PVC weight without Phthalate : 0.0 Kg/km
 Weight about : 146 kg/km (97,9 lb/1000ft)



Designation of order

L45467-J20-C135
 205139
 02YS(ST)WKY 1X2X1.0/2.55-100 BL FR OE
 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.

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