

LEONI Special Cables GmbH

Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet

Design

Wire 02YS 1.0/2.55

Bare copper wire

ø 1.0 mm

Insulation of foamed Polyethylen (PE) with skin

ø 2.55 mm

Core:

2 wires, RD and GN twisted to a pair with fillers in gaps

Plastic laminate, overlapped

Alulaminat foil overlapped, applied longitudinally

Shield braiding of tinned copper wires 0.15 mm dia

Coverage about 90%

ø 5.9 mm

Jacket:

Polyvinylchloride (PVC) BU

Wall thickness about 0.8 mm

ø (7.5 +0.2 -0.25) mm

Printing: LEONI L PROFIBUS FMS L45467-J20-C85 * E119100 (UL) CMX 60°C (SHIELDED) AWG 18 *

+ marking every meter, Textintervals about 1000 mm

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 characteristic

Insulating material acc. to DIN VDE 0819, part 103, table 2/A (02Y11)

Jacket material acc. to DIN VDE 0207, compoundtype YM5

Conductor material acc. to DIN 40500 part 4, E-Cu58 F21

Screen material acc. to DIN 40500 part 5, E-Cu58 F21-V2

Oil resistance acc. to VDE 0472 T. 803

Flametest acc. to IEC 60332-1

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Application / Special feature:

Jacket UV-Resistant

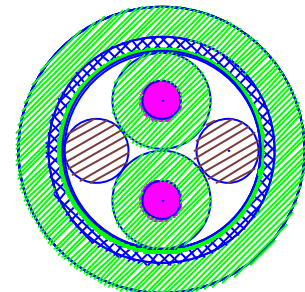
Permissible temperature range : -10°C up to +70°C (UL 60°C)

min. bending diameter allowed: multiple 15X ø, single 10X ø

PVC weight with Phthalate : 23.7 Kg/km

PVC weight without Phthalate : 0.0 Kg/km

Weight about : 77 Kg/km

**Designation of order:**

L45467-J20-C85

201449

02YS(ST)CY 1X2X1.0/2.55-100 BL OE FR

1000 m on non-returnable reel

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Technical modification reserved

Creator : LSC E / BRUNS

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