

LEONI Special Cables GmbH

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

Design

Wire 02YS 0.64/2.55 LI
 Stranded bare copper wire 19 X 0.14 ø 0.64 mm
 Insulation of foamed Polyethylen (PE) with skin ø 2.56 mm

Core:

2 wires RD and GN twisted to a pair with fillers in gaps
 Vlies foil, overlapped
 Alulaminat foil overlapped
 Shield braiding of tinned copper wires 0.15 mm dia
 Coverage about 65%
 Vlies foil, overlapped ø 6.5 mm

Jacket:

Polyurethane (PUR) PETROL
 Wall thickness about 1.0 mm ø (8.5 ±0.4) mm

Printing: LEONI L PROFIBUS L2/F.I.P. SCHLEPPFAEHIG L45467-G16-C88 * (UL)
 CMX 75°C (SHIELDED) AWG 24 * (filler = dashes)

+ marking every meter
 Textintervals about 1000 mm

Electrical data at 20°C

Loop resistance	≤	133	Ohm/km
Screen resistance	≤	14	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	<	3	dB/km

Capacitance	1 kHz	28	nF/km
Capacitance unbalance to ground		≤ 1500	pF/km
Operating voltage (effective value)		≤ 100	V
UL-Rating		300	V
Test voltage		3600	V DC 3 sec

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Technical modification reserved

Creator : LSC E / BRUNS

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 Up-dating : 25.02.2003 Name: Langemeyer
 Supersedes : 19.02.2003 which is to be intended with drawn

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Mechanical and thermal characteristic

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
 Smoke-density acc. to IEC 61034
 Oil resistant acc. to DIN EN 60811-2-1
 Halogen free acc. DIN VDE 0472, part 815/A
 Sunlight resistant acc. to UL 1581 Sec.1200

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Application / Special feature:

Trailing cable for following requirements

- 5 million bending cycles
- bending radius 7.5x max. \varnothing
- acceleration 4 m/s²
- not adapted for garland mounting
- min. bending diameter allowed: single 5X \varnothing

Handling-/Installation and operating temperature: -40°C up to +80°C

Pulling force with $\leq 70\text{N}$

Weight about : 62 Kg/km

Designation of order:

L45467-G16-C88
 201146
 02YS(ST)C11Y 1X2X0.64/2.55-150 LI FRNC PETROL
 1000 m non-returnable reel

