

**Design**

Wire 02YS 0.64/2.55  
 Bare copper wire ø 0.65 mm  
 Insulation of foamed Polyethylen (PE) with skin ø 2.55 mm

**Core:**

2 wires, RD and GN twisted to a pair  
 Plastic tape, overlapped  
 Inner-Jacket Polyvinylchloride (PVC) WH ø 5.4 mm  
 Alulaminat foil overlapped, applied longitudinally  
 Shield braiding of tinned copper wires 0.15 mm dia  
 Coverage about 56% ø 6.2 mm

**Inner jacket:**

Polyvinylchloride (PVC) VT  
 Wall thickness about 0.9 mm ø (8.0 ±0.4) mm

**Jacket:**

Polyethylen (PE) SW  
 Wall thickness about 1.4 mm ø (10.8 ±0.5) mm

Printing: LEONI L PROFIBUS L2/F.I.P. ES L45467-G16-C236  
 + marking every meter  
 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
(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

Inductance (31,25 KHz)	≈	1000	µH/km
Capacitance (1 KHz)	≈	28.5	nF/km
Unbalance to ground	≤	1500	pF/km
Operating voltage (effective value)	≤	100	V
rel. velocity of propagation	≈	81	%
Test voltage (DC 3 sec)	=	3600	V

**Mechanical and thermal characteristics**

Conductor material acc. to DIN 40500 part 4, E-Cu58 F21  
 Screen material acc. to DIN 40500 part 5, E-Cu58 F21-V1  
 Insulating material acc. to DIN VDE 0819, part 103, table 2/A (02Y11)  
 Jacket material acc. to DIN VDE 0819 part 102, compoundtype TM52 (YM2)  
 Jacket material acc. to DIN VDE 0207, compoundtype 2YM1  
 Cold bend test acc. DIN VDE 0473 part 811-1-4 ; after 16 hour storage at -40° Grad

**Application / Special feature:**

UV-Resistant  
 Limited mineral oil and fats resistance

Permissible temperature range : - 40°C up to + 60°C  
 min. bending diameter allowed: multiple 15X ø  
 single 7.5X ø

Pulling force with ≤ 100 N

PVC weight with Phthalate : 47.6 Kg/km  
 PVC weight without Phthalate : 0.0 Kg/km  
 Weight about : 117 Kg/km

**Designation of order:**

L45467-G16-C236  
 202262  
 02YSY(ST)CY2Y 1X2X0.64/2.55-150 KF40  
 1000 m on non-returnable reel



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