

FieldLink[®]

DeviceNet



Design

a) Pair 02YS(ST) 1X2X1.3/3.8-120 LI VZN

Wire

Stranded tinned copper wire 19 X 0.25

Insulation of foamed Polyethylene (PE) with skin

∅ 1.3 mm (0.051 in)
∅ 3.8 mm (0.150 in)

2 wires, WH and BU side by side

Alulaminat foil overlapped, applied longitudinally

b) Pair LI2Y(ST) 1X2X1.5/2.7 VZN

Wire

Stranded tinned copper wire 19 X 0.34

Insulation of Polyethylene (PE)

∅ 1.7 mm (0.067 in)
∅ 2.7 mm (0.106 in)

2 wires, RD and BK side by side

Alulaminat foil overlapped, applied longitudinally

Core:

Central element: Stranded tinned copper drain wire 0.86 mm² (19x0.24)

1 Pair 02YS(ST) 1X2X1.3/3.8-120 LI VZN

1 Pair LI2Y(ST) 1X2X1.5/2.7 VZN

+ fillers

Shield braiding of tinned copper wires 0.13 mm dia

Coverage about 70%

Jacket:

Thermoplastic copolymer (FRNC) VT

∅ (12.2 ±0.3) mm (0.480 ±0.012 in)

Printing: LEONI L DeviceNet Thick Cable 2x18AWG 2x15AWG SHIELDED (UL) E119100
CMG 75°C or PLTC FT4 Sun Res

LEONI Special Cables GmbH

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

Electrical data at 20°C

Conductor resistance	(Pair to a)	≤	22.6	Ohm/km
Conductor resistance	(Pair to b)	≤	11.7	Ohm/km
Capacitance (1 kHz wire/wire)	(Pair to a)	≈	39.8	nF/km
Characteristic impedance (1 MHz)	(Pair to a)		(120 ± 12)	Ohm
Signal run time	(Pair to a)	≤	4.46	ns/m
Capacity unbalanced to ground	(Pair to a)	≤	3937	pF/km
Operating voltage (peak)		≤	300	V
Insulation resistance		≥	200	MOhm*km
Test voltage (wire/wire/screen rms 50Hz 1min)		=	2000	V

Frequency (kHz)	125	500	1000
Attenuation typ. (dB/100m) (Pair to a)	0,42 (0,1)	0,81 (0,2)	1,31 (0,4)

Mechanical and thermal characteristics

Conductor/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)
 Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table L/MD (HD 624.3)
 Jacket material acc. to DIN EN 50290-2-27 (HD 624.7)
 Sunlight resistant acc. to UL 1581 Sec.1200
 Flame retardant acc. to UL 1685 (CSA FT 4)
 Flame retardant acc. to IEC 60332-3-24 (Cat. C)
 Flame retardant acc. to IEC 60332-1-2
 Flame retardant acc. to IEC 60332-2-2

UL File E119100 Vol.1 Sec.17 Page 3
 UL File E116441 Vol.1 Sec. 7 Page 3

Other characteristics:

RoHS compliant (Directive 2011/65/EU & 2015/863/EU RoHS 3)
 NEC Class 2
 Halogen free acc. to IEC 60754-1
 Corrosivity of fumes acc. to IEC 60754-2

Permissible temperature range

Transport and fixed installation: -52 °C (-62 °F) up to 80 °C (176 °F)
 Installation and flexible use : -25 °C (-13 °F) up to 80 °C (176 °F)

Designation of order:

L45467-F21-W6
 203313
 02YS 1X2X1.3/3.8-120 LI VZN PIMF
 LI2Y CH 1X2X1.5 VZN PIMF VI FRNC
 1000 m (3281 ft) on non-returnable reel

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Technical modification reserved

Creator : LSC E / BUSCHER

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