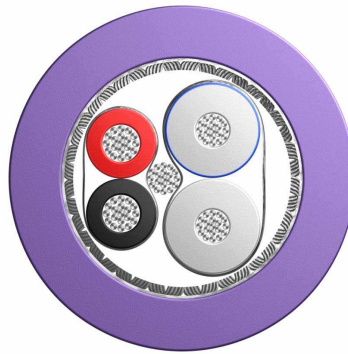


FieldLink® DeviceNet



Design

a) Pair 02YS(ST) 1X2X0.67/1.9-120 LI VZN

Wire

Stranded tinned copper wire 19 X 0.13

Insulation of foamed Polyethylene (PE) with skin

Wall thickness about 0.6 mm

∅ 0.67 mm (0,026 in)

∅ 1.9 mm (0.075 in)

2 wires, WH and BU side by side

Alulaminare foil overlapped, applied longitudinally

b) Pair LI2Y(ST) 1X2X0.38/1.4 VZN

Wire

Stranded tinned copper wire 19 X 0.16

Insulation of Polyethylene (PE)

Wall thickness about 0.3 mm

∅ 0.75 mm (0,030 in)

∅ 1.4 mm (0,055 in)

2 wires, RD and BK side by side

Alulaminare foil overlapped, applied longitudinally

Core:

Central element: Stranded tinned copper drain wire 0.38 mm² (19x0.16)

1 Pair 02YS(ST) 1X2X0.67/1.9-120 LI VZN

1 Pair LI2Y(ST) 1X2X0.38/1.4 VZN

Shield braiding of tinned copper wires 0.13 mm dia

Coverage about 70%

∅ 4.8 mm (0,189 in)

Jacket:

Thermoplastic copolymer (FRNC) VT

Wall thickness about 1.05 mm

∅ (6.9 ± 0.3) mm (0.272 ± 0.012 in)

Printing: LEONI L DeviceNet Thin Cable 2x23AWG 2x22AWG SHIELDED (UL) E119100
CMG 75°C or CL2 FT4 Sun Res

Electrical data at 20°C

Conductor resistance	(Pair to a)	≤	90	Ohm/km
Conductor resistance	(Pair to b)	≤	55	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
Ampacity (up to 25 °C)	(Pair to b)	≤	6	A
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) (dB/100ft)	0,95 (0,3)	1,64 (0,5)	2,29 (0,7)

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)
 Flame retardant acc. to UL 1685 (CSA FT 4)

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 E116441 Vol.1 Sec. 7 Page 4

Other characteristics:

Halogen free acc. to IEC 60754-2
 Halogen acid gas emission acc. to 60754-1
 Smoke-density acc. to EN 50268-2
 Smoke-density acc. to IEC 61034-1/2
 Flame retardant acc. to EN 50265-2-1
 Flame retardant acc. to IEC 60332-1-1
 Sunlight resistant acc. to UL 1581 Sec.1200

Application / Special feature:

NEC Class 2

Permissible temperature range : -25°C (-13°F) up to +80°C (+176°F)
 Min. bending radius allowed : repeated 10X Ø, single 5X Ø
 Weight about : 69 Kg/km (46,2 lb/1000ft)

Designation of order:

L45467-F16-W6
 203315
 02YS 1X2X0.67/1.9-120 LI VZN PIMF
 LI2Y CH 1X2X0.38 VZN PIMF VI FRNC
 1000 m (3281 ft) on non-returnable reel