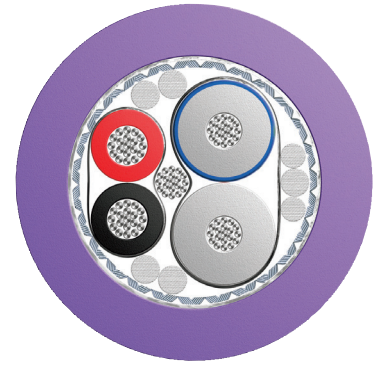


# DeviceNet™

THICK Cable for High Flexible Installation (TPU)



## Cable Design

### Data Pair 1x2x18awg

Conductor	Stranded tinned copper wire (40/0,18mm) 18awg	Ø 1,30 mm
Insulation	Foamed Polyethylene (PE) with skin	Ø 3,80 mm
Pair	2 insulated conductors twisted to a pair, WH/BU	
Screen	Alulminate foil overlapped	

### Power Pair 1x2x15awg

Conductor	Stranded tinned copper wire (84/0,16mm) 15awg	Ø 1,70 mm
Insulation	Polyethylene (PE)	Ø 2,70 mm
Pair	2 insulated conductors twisted to a pair, RD/BK	
Screen	Alulminate foil overlapped	

### Core

Central Element	Stranded tinned copper drain wire 0,86mm <sup>2</sup> (19/0.24mm)	
1 Pair	1x2x18awg screened	
1 Pair	1x2x15awg screened	
Tape	Plastic tape conductiv	
Braid	Tinned copper wire braid, 70% coverage	
Tape	Plastic tape overlapped	Ø 8,80 mm

Outer Jacket	Thermoplastic Polyurethane (TPU), Violet	Ø 12,20 ± 0,30 mm
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## Characteristics

- Flame retardant acc. to 2556 Sec. 9.4 (VW-1),
- Halogen free acc. to IEC 60754,
- Sunlight resistant acc. to UL 2556 Sec. 4.2.8.5,
- Oil resistant acc. to UL 13 sec. 40 (60 °C),

## Specification

Part Number	Type
L45467-F21-W8	DeviceNet thick cable for high flexible installation, 2x18AWG + 2x15AWG, UL listed: CMX and CL2X

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## Electrical Data @ 20 °C

Conductor Resistance	Data pair	≤	22,6	Ohm/km
Conductor Resistance	Power pair	≤	11,7	Ohm/km
Capacitance (1 kHz wire/wire)	Data pair	≈	39,8	nF/km
Characteristic Impedance (1 MHz)	Data pair		120±12	Ohm
Signal Run Time	Data pair	≤	4,46	ns/m
Capacity Unbalanced to ground	Data pair	≤	3937	pF/km
Operating Voltage (peak)		≤	300	V
Insulation Resistance		≥	200	MOhm*km
Test Voltage (wire/wire/screen 50Hz)		=	2000	V
Attenuation	125 MHz		0,42	dB/100m
Attenuation	500 MHz		0,81	dB/100m
Attenuation	1000 MHz		1,31	dB/100m

## Mechanical & Thermal Characteristics

Permissible temperature range		-40 ~ +80	°C
Min. Bending radius allowed	repeated	5	x Ø
Min. Bending radius allowed	single	2,5	x Ø
Weight (approx.)		184	kg/km
Trailing cable for following requirements		2,5 million bending cycles	
		bending radius 100mm	
		at a speed of 4 m/s	
		acceleration 4 m/s <sup>2</sup>	
		maximum length horizontal of cable 6m	

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