

# LEONI FieldLink®

**DeviceNet™ cables  
optimised for standard  
applications in the  
automation technology**



#### **Characteristics:**

- Flame retardant
- Highly flexible
- Permanent installation
- Halogen free
- Silicon free
- Sunlight resistant
- Oil resistant
- Cold resistant
- Trailing cable
- RoHS compliant



## **Expanding range of bus cables**

Designed with two shielded wire pairs for data transfer plus power supply, these cables meet ODVA standards. The external sheath is available in robust and highly flexible versions depending on the requirements. The flexible installation types feature a PVC or flame-retarding halogen-free (FRNC) external sheath. PUR or PVC sheath material is used for flexible wiring applications. This is suitable for use in mechanical engineering and robotics. Sunlight and oil resistance are two additional features of our DeviceNet cables types.

#### **They are available in the following versions:**

- DeviceNet™ thick cable for permanent installation
- DeviceNet™ thick cable for high-flexible use
- DeviceNet™ thin cable for permanent installation
- DeviceNet™ thin cable for high-flexible use

In North America, DeviceNet has established itself as the leading bus system for automation technology. To live up to the demands of the US market, all DeviceNet cables have American UL approval (file number E119100).

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## Overview DeviceNet™ standard types



		Thick cable		Thin cable	
<b>Technical data</b>	<b>Outer Diameter</b>	12.2 mm (0.48 inch)		6.9 mm (0.27 inch)	
	<b>Capacitance</b>	≤ 40 nF/km		≤ 40 nF/km	
	<b>Characteristic impedance</b>	120±12 Ω		120±12 Ω	
	<b>Signal run time</b>	≤ 4.46 ns/m		≤ 4.46 ns/m	
	<b>Operating voltage</b>	300 V		300 V	
	<b>Test voltage</b>	2000 V		2000 V	
<b>Data pair</b>	<b>Stranded tinned wire</b>	18 AWG (1.0 mm <sup>2</sup> )		24 AWG (0.25 mm <sup>2</sup> )	
	<b>Insulation</b>	foamed PE		foamed PE	
	<b>Conductor-Ident-Code</b>	light blue and white		light blue and white	
<b>Power pair (DC)</b>	<b>Stranded tinned wire</b>	15 AWG (1.5 mm <sup>2</sup> )		22 AWG (0.38 mm <sup>2</sup> )	
	<b>Insulation</b>	PE	PVC	PE	PVC
	<b>Conductor-Ident-Code</b>	red and black		red and black	
<b>Shielding</b>	<b>Drain wire</b>	18 AWG		22 AWG	
	<b>Pair shielding</b>	aluminium with a tinned copper drain wire		aluminium with a tinned copper drain wire	
	<b>Shield braiding</b>	tinned copper wires		tinned copper wires	
<b>Permanent installation</b>	<b>Jacket</b>	FRNC	PVC	FRNC	PVC
	<b>Colour</b>	violet	grey	violet	grey
	<b>Cable weight</b>	189	192	69	67
	<b>Temperature</b>	- 25 °C (- 13 °F) up to + 80 °C (+ 176 °F)	- 20 °C (- 4 °F) up to + 80 °C (+ 176 °F)	- 25 °C (- 13 °F) up to + 80 °C (+ 176 °F)	- 20 °C (- 4 °F) up to + 80 °C (+ 176 °F)
	<b>Min. bending radius multiple / single</b>	repeated 10X ø, single 5X ø	repeated 10X ø, single 5X ø	repeated 10X ø, single 5X ø	repeated 10X ø, single 5X ø
	<b>UL approbation</b>	CMG 75 °C or PLTC	CMG 75 °C or PLTC	CMG 75 °C or CL2	CMG 75 °C or CL2
	<b>Order number</b>	L45467-F21-W6	L45467-F21-W5	L45467-F16-W6	L45467-F16-W5
	<b>High flexible use</b>	Jacket	TPU	PVC	TPU
	Colour	violet	grey	violet	grey
	Cable weight	184	196	67	70
	Temperature	- 40 °C (- 40 °F) up to + 80 °C (+ 176 °F)	- 10 °C (+ 14 °F) up to + 80 °C (+ 176 °F)	- 40 °C (- 40 °F) up to + 80 °C (+ 176 °F)	- 10 °C (+ 14 °F) up to + 80 °C (+ 176 °F)
	Min. bending radius multiple / single	repeated 5X ø, single 2,5X ø	repeated 5X ø, single 2,5X ø	repeated 5X ø, single 2,5X ø	single 2,5X ø
	UL approbation	CMX 75 °C or CL2X	CMG 75 °C or PLTC	CMX 75 °C or CL2X	CMG 75 °C or CL2
	Order number	L45467-F21-W8	L45467-F21-W15	L45467-F16-W8	L45467-F16-W15



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LEONI Special Cables GmbH

Business Unit Automation & Drives · Eschstrasse 1 · 26169 Friesoythe, Germany · +49 4491 291-5010

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