

FieldLink[®] for DeviceNet[™] applications

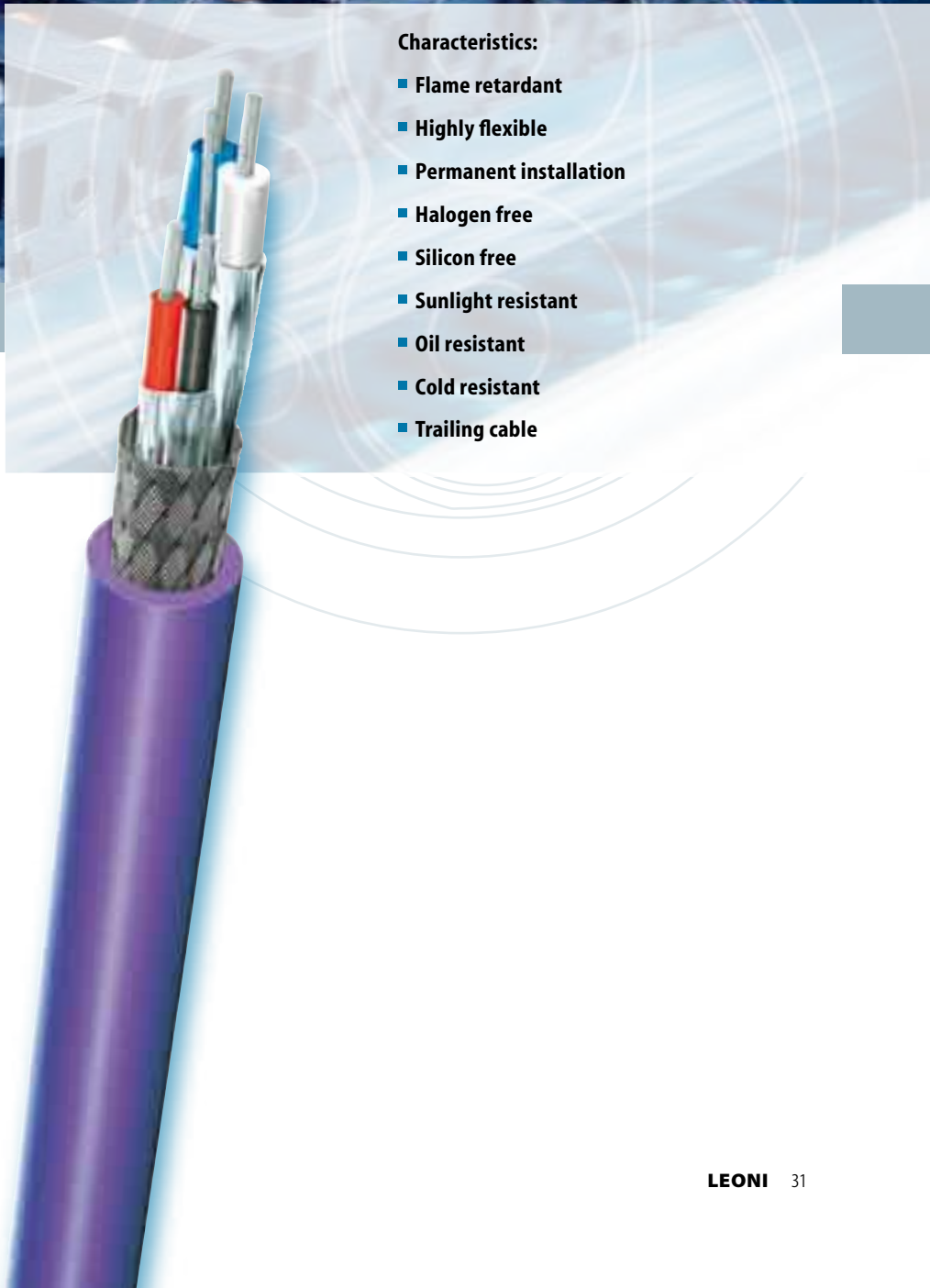


**LEONI Special Cables
is a member of ODVA**

The DeviceNet system connects industrial devices (e.g. limit switches, photoelectric switches, variable frequency drives, motor starters, valve islands, PLCs) and is based on proven CAN (Controller Area Network) technology. The FieldLink product range comprises cables for DeviceNet applications which have to connect on-line bus system components. DeviceNet cables are available in the 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

All cable types obtain one power and one data pair and the jacket is made of FRNC, PUR and PVC depending on the requirements. The basic version for fixed installation is protected by rugged PVC jacketing. Polyurethane (PUR) for the outer jacket is used in high-flex fuels and mineral oil technology. PUR is the ideal solution for jacketing in machinery and robotics technology.



Characteristics:

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

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 produced by LEONI Special Cables have the American UL approval (file number E119100).

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Application	Thick cable for permanent installation 2x18 AWG + 2x15 AWG UL listed: CMG and PLTC	Economy thick cable for permanent installation 2x18 AWG + 2x15 AWG UL listing in progress	Thin cable for permanent installation 2x24 AWG + 2x22 AWG UL listed: CMG and PLTC
Conductor	<p>Data pair Stranded tinned copper wire 19x0.25, Ø 1.3 mm, insulation of foamed PE with skin Ø 3.8 mm, 2 wires side by side, alulamine foil overlapped</p> <p>Power pair Stranded tinned copper wire 19x0.34, Ø 1.7 mm, insulation of PVC Ø 2.7 mm, 2 wires side by side, alulamine foil overlapped</p>	<p>Data pair Stranded tinned copper wire 19x0.25, Ø 1.3 mm, insulation of foamed PE with skin Ø 3.8 mm, 2 wires side by side, alulamine foil overlapped</p> <p>Power pair Stranded tinned copper wire 19x0.34, Ø 1.7 mm, insulation of PVC Ø 2.7 mm, 2 wires side by side, alulamine foil overlapped</p>	<p>Data pair Stranded tinned copper wire 19x0.13, Ø 0.67 mm, insulation of foamed PE with skin Ø 1.9 mm, 2 wires side by side, alulamine foil overlapped</p> <p>Power pair Stranded tinned copper wire 19x0.16, Ø 0.75 mm, insulation of PVC Ø 1.4 mm, 2 wires side by side, alulamine foil overlapped</p>
Core	Central element: Stranded tinned copper drain wire, 1 data pair, 1 power pair	Central element: Stranded tinned copper drain wire, 1 data pair, 1 power pair	Central element: Stranded tinned copper drain wire, 1 data pair, 1 power pair
Shield	Shield braiding of tinned copper wires Ø 0.13 mm	Shield braiding of tinned copper wires Ø 0.13 mm	Shield braiding of tinned copper wires Ø 0.13 mm
Jacket	Polyvinylchloride (PVC) grey Ø 12.2 ± 0.3 mm	Polyvinylchloride (PVC) grey Ø 11.0 ± 0.3 mm	Polyvinylchloride (PVC) grey Ø 6.9 ± 0.3 mm
Mechanical Characteristics	Flame retardant acc. to UL 1685 (CSA FT 4), sunlight resistant acc. to UL 1581, Sec. 1200, oil resistant acc. to UL 1581, Sec. 480, UL-File E119100, Vol. 1, Sec. 17, Page 3, UL-File E116441, Vol. 1, Sec. 7, Page 3	Flame retardant acc. to UL 1685 (CSA FT 4), sunlight resistant acc. to UL 1581, Sec. 1200	Flame retardant acc. to UL 1685 (CSA FT 4), sunlight resistant acc. to UL 1581, Sec. 1200, oil resistant acc. to UL 1581, Sec. 480, UL-File E119100, Vol. 1, Sec. 17, Page 4, UL-File E116441, Vol. 1, Sec. 7, Page 4
Type Designation	02YS 1x2x1.3/3.8-120 LI VZN PIMF LIY CY 1x2x1.5 VZN PIMF GR	02YS 1x2x1.3/3.8-120 LI VZN PIMF LIY CY 1x2x1.5 VZN PIMF GR	02YS 1x2x0.67/1.9-120 LI VZN PIMF LIY CY 1x2x0.38 VZN PIMF GR
Order-Number	L45467-F21-W5	L45467-F21-W55	45467-F16-W5

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<p>Economy thin cable for permanent installation 2x24 AWG + 2x22 AWG UL listing in progress</p>	<p>Thick cable for permanent installation (FRNC) 2x18 AWG + 2x15 AWG UL listed: CMG and PLTC</p>	<p>Thin cable for permanent installation (FRNC) 2x24 AWG + 2x22 AWG UL listed: CMG and PLTC</p>	<p>Application</p>
<p>Data pair Stranded tinned copper wire 19x0.13, Ø 0.67 mm, insulation of foamed PE with skin Ø 1.9 mm, 2 wires side by side, alulamine foil overlapped</p> <p>Power pair Stranded tinned copper wire 19x0.16, Ø 0.75 mm, insulation of PVC Ø 1.4 mm, 2 wires side by side, alulamine foil overlapped</p>	<p>Data pair Stranded tinned copper wire 19x0.25, Ø 1.3 mm, insulation of foamed PE with skin Ø 3.8 mm, 2 wires side by side, alulamine foil overlapped</p> <p>Power pair Stranded tinned copper wire 19x0.34, Ø 1.7 mm, insulation of PE Ø 2.7 mm, 2 wires side by side, alulamine foil overlapped</p>	<p>Data pair Stranded tinned copper wire 19x0.13, Ø 0.67 mm, insulation of foamed PE with skin Ø 1.9 mm, 2 wires side by side, alulamine foil overlapped</p> <p>Power pair Stranded tinned copper wire 19x0.16, Ø 0.75 mm, insulation of PE Ø 1.4 mm, 2 wires side by side, alulamine foil overlapped</p>	<p>Conductor</p>
<p>Central element: Stranded tinned copper drain wire, 1 data pair, 1 power pair</p>	<p>Central element: Stranded tinned copper drain wire, 1 data pair, 1 power pair</p>	<p>Central element: Stranded tinned copper drain wire, 1 data pair, 1 power pair</p>	<p>Core</p>
<p>Shield braiding of tinned copper wires Ø 0.13 mm</p>	<p>Shield braiding of tinned copper wires Ø 0.13 mm</p>	<p>Shield braiding of tinned copper wires Ø 0.13 mm</p>	<p>Shield</p>
<p>Polyvinylchloride (PVC) grey Ø 6.4 ± 0.3 mm</p>	<p>Thermoplastic Copolymer (FRNC) violet Ø 12.2 ± 0.3 mm</p>	<p>Thermoplastic Copolymer (FRNC) violet Ø 6.9 ± 0.3 mm</p>	<p>Jacket</p>
<p>Flame retardant acc. to UL 1685 (CSA FT 4), sunlight resistant acc. to UL 1581, Sec. 1200</p>	<p>Flame retardant acc. to UL 1685 (CSA FT 4), halogen free, sunlight resistant acc. to UL 1581, Sec. 1200, UL-File E119100, Vol. 1, Sec. 17, Page 3, UL-File E116441, Vol. 1, Sec. 7, Page 3</p>	<p>Flame retardant acc. to UL 1685 (CSA FT 4), halogen free, sunlight resistant acc. to UL 1581, Sec. 1200, UL-File E119100, Vol. 1, Sec. 17, Page 4, UL-File E116441, Vol. 1, Sec. 7, Page 4</p>	<p>Mechanical Characteristics</p>
<p>02YS 1x2x0.67/1.9-120 LI VZN PIMF LIY CY 1x2x0.38 VZN PIMF GR</p>	<p>02YS 1x2x1.3/3.8-120 LI VZN PIMF LI2Y CH 1x2x1.5 VZN PIMF VI FRNC</p>	<p>02YS 1x2x0.67/1.9-120 LI VZN PIMF LI2Y CH 1x2x0.38 VZN PIMF VI FRNC</p>	<p>Type Designation</p>
<p>L45467-F16-W55</p>	<p>L45467-F21-W6</p>	<p>L45467-F16-W6</p>	<p>Order-Number</p>

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Application	Thick cable for high flexible installation 2x18 AWG + 2x15 AWG UL listed: CMG and PLTC	Economy thick cable for high flexible installation 2x18 AWG + 2x15 AWG UL listing in progress	Thin cable for high flexible installation 2x24 AWG + 2x22 AWG UL listed: CMG and PLTC
Conductor	<p>Data pair Stranded tinned copper wire 40x0.18, Ø 1.3 mm, insulation of foamed PE with skin Ø 3.8 mm, 2 wires side by side, alulamine foil overlapped</p> <p>Power pair Stranded tinned copper wire 84x0.16, Ø 1.7 mm, insulation of PVC Ø 2.7 mm, 2 wires side by side, alulamine foil overlapped</p>	<p>Data pair Stranded tinned copper wire 40x0.18, Ø 1.3 mm, insulation of foamed PE with skin Ø 3.8 mm, 2 wires side by side, alulamine foil overlapped</p> <p>Power pair Stranded tinned copper wire 84x0.16, Ø 1.7 mm, insulation of PVC Ø 2.7 mm, 2 wires side by side, alulamine foil overlapped</p>	<p>Data pair Stranded tinned copper wire 19x0.13, Ø 0.67 mm, insulation of foamed PE with skin Ø 1.9 mm, 2 wires side by side, alulamine foil overlapped</p> <p>Power pair Stranded tinned copper wire 19x0.16, Ø 0.75 mm, insulation of PVC Ø 1.4 mm, 2 wires side by side, alulamine foil overlapped</p>
Core	Central element: Stranded tinned copper drain wire, 1 data pair, 1 power pair,	Central element: Stranded tinned copper drain wire, 1 data pair, 1 power pair	Central element: Stranded tinned copper drain wire, 1 data pair, 1 power pair
Shield	Plastic tape conductive, shield braiding, of tinned copper wires Ø 0.13 mm	Plastic tape conductive, shield braiding, of tinned copper wires Ø 0.13 mm	Plastic tape conductive, shield braiding, of tinned copper wires Ø 0.13 mm
Jacket	Polyvinylchloride (PVC) grey Ø 12.2 ± 0.3 mm	Polyvinylchloride (PVC) grey Ø 11.4 ± 0.3 mm	Polyvinylchloride (PVC) grey Ø 6.9 ± 0.3 mm
Mechanical Characteristics	Flame retardant acc. to UL 1685 (CSA FT 4), sunlight resistant acc. to UL 1581, Sec. 1200, oil resistant acc. to UL 1581, Sec. 480, UL-File E119100, Vol. 1, Sec. 17, Page 3, UL-File E116441, Vol. 1, Sec. 7, Page 3	Flame retardant acc. to UL 1685 (CSA FT 4), sunlight resistant acc. to UL 1581, Sec. 1200	Flame retardant acc. to UL 1685 (CSA FT 4), sunlight resistant acc. to UL 1581, Sec. 1200, oil resistant acc. to UL 1581, Sec. 480, UL-File E119100, Vol. 1, Sec. 17, Page 4, UL-File E116441, Vol. 1, Sec. 7, Page 4
Type Designation	02YS 1x2x1.3/3.8-120 LI VZN PIMF LIY CY 1x2x1.5 VZN PIMF GR	02YS 1x2x1.3/3.8-120 LI VZN PIMF LIY CY 1x2x1.5 VZN PIMF GR	02YS 1x2x0.67/1.9-120 LI VZN PIMF LIY CY 1x2x0.38 VZN PIMF GR
Order-Number	L45467-F21-W15	L45467-F21-W65	L45467-F16-W15

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Economy thin cable for high flexible installation 2x24 AWG + 2x22 AWG UL listing in progress	Thick cable for high flexible installation 2x18 AWG + 2x15 AWG UL listed: CMX and CL2X	Thin cable for high flexible installation 2x24 AWG + 2x22 AWG UL listed: CMX and CL2X	Application
Data pair Stranded tinned copper wire 19x0.13, Ø 0.67 mm, insulation of foamed PE with skin Ø 1.9 mm, 2 wires side by side, alulminate foil overlapped	Data pair Stranded tinned copper wire 40x0.18, Ø 1.3 mm, insulation of foamed PE with skin Ø 3.8 mm, 2 wires side by side, alulminate foil overlapped	Data pair Stranded tinned copper wire 19x0.13, Ø 0.67 mm, insulation of foamed PE with skin Ø 1.9 mm, 2 wires side by side, alulminate foil overlapped	Conductor
Power pair Stranded tinned copper wire 19x0.16, Ø 0.75 mm, insulation of PVC Ø 1.4 mm, 2 wires side by side, alulminate foil overlapped	Power pair Stranded tinned copper wire 84x0.16, Ø 1.7 mm, insulation of PE Ø 2.7 mm, 2 wires side by side, alulminate foil overlapped	Power pair Stranded tinned copper wire 19x0.16, Ø 0.75 mm, insulation of PE Ø 1.4 mm, 2 wires side by side, alulminate foil overlapped	
Central element: Stranded tinned copper drain wire, 1 data pair, 1 power pair	Central element: Stranded tinned copper drain wire, 1 data pair, 1 power pair	Central element: Stranded tinned copper drain wire, 1 data pair, 1 power pair	Core
Plastic tape conductive, shield braiding, of tinned copper wires Ø 0.13 mm,	Plastic tape conductive, shield braiding, of tinned copper wires Ø 0.13 mm,	Plastic tape conductive, shield braiding, of tinned copper wires Ø 0.13 mm,	Shield
Polyvinylchloride (PVC) grey Ø 6.8 ± 0.3 mm	Polyurethane (PUR) violet Ø 12.2 ± 0.3 mm	Polyurethane (PUR) violet Ø 6.9 ± 0.3 mm	Jacket
Flame retardant acc. to UL 1685 (CSA FT 4), sunlight resistant acc. to UL 1581, Sec. 1200	Flame retardant acc. to UL 1581, Sec. 1080 (VW-1), halogen free, sunlight resistant acc. to UL 1581, Sec. 1200, oil resistant acc. to UL 1581, Sec. 480, UL-File E119100, Vol. 1, Sec. 17, Page 1, UL-File E116441, Vol. 1, Sec. 7, Page 1	Flame retardant acc. to UL 1581, Sec. 1080 (VW-1), halogen free, sunlight resistant acc. to UL 1581, Sec. 1200, oil resistant acc. to UL 1581, Sec. 480, UL-File E119100, Vol. 1, Sec. 17, Page 2, UL-File E116441, Vol. 1, Sec. 7, Page 2	Mechanical Characteristics
02YS 1x2x0.67/1.9-120 LIVZN PIMF LIY CY 1x2x0.38 VZN PIMF GR	02YS 1x2x1.3/3.8-120 LI VZN PIMF LI2Y C11Y 1x2x1.5 VZN PIMF VI FRNC	02YS 1x2x0.67/1.9-120 LI VZN PIMF LI2Y C11Y 1x2x0.38 VZN PIMF VI FRNC	Type Designation
L45467-F16-W65	L45467-F21-W8	L45467-F16-W8	Order-Number