Preferred Program
센서와 커넥티비티
Overview

Turck is a major manufacturer in the automation and technology sector, with operations in over 28 countries and more than 4,200 employees. With a presence in over 60 cities, Turck offers sales channels worldwide, enabling close connections with customers in any part of the world. Turck specializes in sensors, fieldbus, connectivity, and interface technology, HMI, and RFID systems, and provides efficient solutions for factory and process automation. It meets the requirements of various industries, including automotive, transport, beverage, chemical, and pharmaceutical. Turck’s expertise in automation solutions and products improves the efficiency and productivity of equipment and plants, and offers cost savings in procurement and inventory management, installation, and operation. The company’s close collaboration with customers provides industry-specific application know-how, ensuring the provision of the optimal solution for automation. With over 50 years of experience and comprehensive expertise, from initial analysis to customer-specific solutions and application commissioning, Turck supports customers throughout the project stages. The primary goal of Turck’s activities is to continuously improve the efficiency and productivity of production processes or equipment. The support of experts, fast delivery, high-quality products, and improved system availability lead to its continued success.
**Preferred Program – 센서**

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<th>센서 유형</th>
<th>페이지</th>
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**Preferred Program – 커넥티비티**

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<th>커넥티비티 유형</th>
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<td>18</td>
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<td>연결 및 연장 케이블 - M12 × 1</td>
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<td>멀티 패시브 정선을 위한 공급 케이블 - M23 × 1</td>
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<td>연결 및 연장 케이블 - 이더넷</td>
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<td>현장 배선형 커넥터 - 이더넷</td>
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**배선도**

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**치수도**

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<td>치수도</td>
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# Inductive Sensors

## Cylindrical and Rectangular Designs

The product portfolio of inductive sensors comprises threaded barrels and rectangular types which cover the entire scope of tasks. The sensors are available in robust M8, M12, M18 and M30 threaded barrels. Of the M8, M12 and M18 designs, the portfolio even includes different lengths. The rectangular inductive sensors are available in the variable 40 x 40 mm housings of the CK40 and the tool-free adjustable QV40 designs. The housing of the rectangular variants is made in the especially abrasion-resistant and chemically resistant plastic PBT.

For mains connection, you can choose between 2 m and 7 m cables as well as between M8 and M12 male connection types.

### Type code

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>N</td>
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<td>I</td>
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<td>50</td>
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<td>U</td>
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<th>Connector type</th>
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<td>Standard assignment</td>
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<tr>
<td>other: customized</td>
<td>Number of contacts</td>
<td>Straight, with adapter</td>
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<td>3</td>
<td>M12 x 1 connector</td>
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<td></td>
<td>M8 x 1 connector</td>
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### Electrical Connection: Cable

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<td>...M</td>
<td>...M Cable length [m]</td>
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### Features

- Robust housing materials
- High switching distances
- Many connection possibilities
- Many electrical output functions
- Optimal fastening
- Good visible LED
M8 – 3-Wire DC

General data

<table>
<thead>
<tr>
<th>Operating voltage</th>
<th>10...30 VDC</th>
<th>Switching element function</th>
<th>NO contact</th>
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<tr>
<td>Ambient temperature</td>
<td>-25...+70 °C</td>
<td>Protection class</td>
<td>IP67</td>
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<tr>
<td>LED</td>
<td>LED</td>
<td>Housing material</td>
<td>CuZn</td>
</tr>
<tr>
<td>Housing designation</td>
<td>M8 × 1</td>
<td>Active area material</td>
<td>Plastic, PP-GF20</td>
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Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Type</th>
<th>ID number</th>
<th>Switching distance</th>
<th>Output</th>
<th>Electrical connection</th>
<th>Dimensions</th>
<th>d</th>
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## Inductive Sensors

### M8 – 4-Wire DC

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<tr>
<td><strong>Switching element function</strong></td>
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<tr>
<td><strong>Ambient temperature</strong></td>
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### Types and Features – Selection Table

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<tr>
<th>Type</th>
<th>ID number</th>
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<th>Output</th>
<th>Electrical connection</th>
<th>Dimensions</th>
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M12 – 3-Wire DC

General data

<table>
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<th>Operating voltage</th>
<th>10...30 VDC</th>
<th>Switching element function</th>
<th>NO contact</th>
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<table>
<thead>
<tr>
<th>Ambient temperature</th>
<th>-25...+70 °C</th>
<th>Protection class</th>
<th>IP67</th>
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<tr>
<th>LED</th>
<th>LED</th>
<th>Housing material</th>
<th>CuZn, Chrome-plated</th>
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</table>

<table>
<thead>
<tr>
<th>Housing designation</th>
<th>M12 × 1</th>
<th>Active area material</th>
<th>Plastic, PA12-GF30</th>
</tr>
</thead>
</table>

Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Type</th>
<th>ID number</th>
<th>Switching distance</th>
<th>Output</th>
<th>Electrical connection</th>
<th>Dimensions</th>
<th>W</th>
<th>d</th>
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<tbody>
<tr>
<td>BI2-M12-AP6X</td>
<td>46050</td>
<td>2 mm, ™→</td>
<td>NO contact, PNP</td>
<td>2 m Cable</td>
<td>12 x 54 mm</td>
<td>w001</td>
<td>d019</td>
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<td>46051</td>
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<td>2 m Cable</td>
<td>12 x 54 mm</td>
<td>w002</td>
<td>d019</td>
</tr>
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<td>BI2-M12-AP6X-H1141</td>
<td>46065</td>
<td>2 mm, ™→</td>
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<td>Connector, M12 × 1</td>
<td>12 x 52 mm</td>
<td>w004</td>
<td>d020</td>
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<td>46066</td>
<td>2 mm, ™→</td>
<td>NO contact, NPN</td>
<td>Connector, M12 × 1</td>
<td>12 x 52 mm</td>
<td>w003</td>
<td>d020</td>
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<td>BI4-M12-AP6X</td>
<td>4607006</td>
<td>4 mm, ™→</td>
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<td>d019</td>
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<td>BI4-M12-AP6X-7M</td>
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<td>4 mm, ™→</td>
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<td>7 m Cable</td>
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<td>7 m Cable</td>
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<tr>
<td>BI4-M12-AN6X-H1141</td>
<td>46070</td>
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<td>BI4-M12-AN6X-7M</td>
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<td>BI4-M12-AN6X-H1141</td>
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<tr>
<td>BI4-M12-AN6X-7M</td>
<td>4611315</td>
<td>8 mm, ™→</td>
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<td>Connector, M12 × 1</td>
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<td>w003</td>
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M12 – 4-Wire DC

General data

<table>
<thead>
<tr>
<th>Operating voltage</th>
<th>10...30 VDC</th>
<th>Switching element function</th>
<th>Complementary contact</th>
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</table>

<table>
<thead>
<tr>
<th>Ambient temperature</th>
<th>-25...+70 °C</th>
<th>Protection class</th>
<th>IP67</th>
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</table>

<table>
<thead>
<tr>
<th>LED</th>
<th>LED</th>
<th>Housing material</th>
<th>CuZn, Chrome-plated</th>
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</table>

<table>
<thead>
<tr>
<th>Housing designation</th>
<th>M12 × 1</th>
<th>Active area material</th>
<th>Plastic, PA12-GF30</th>
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Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Type</th>
<th>ID number</th>
<th>Switching distance</th>
<th>Output</th>
<th>Electrical connection</th>
<th>Dimensions</th>
<th>W</th>
<th>d</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI4-M12-VP6X</td>
<td>1633300</td>
<td>4 mm, ™→</td>
<td>Complementary contact, PNP</td>
<td>2 m Cable</td>
<td>12 x 54 mm</td>
<td>w006</td>
<td>d019</td>
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<tr>
<td>BI4-M12-VP6X-7M</td>
<td>1633301</td>
<td>4 mm, ™→</td>
<td>Complementary contact, PNP</td>
<td>7 m Cable</td>
<td>12 x 54 mm</td>
<td>w006</td>
<td>d019</td>
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<tr>
<td>BI4-M12-VN6X</td>
<td>1643300</td>
<td>4 mm, ™→</td>
<td>Complementary contact, NPN</td>
<td>2 m Cable</td>
<td>12 x 54 mm</td>
<td>w005</td>
<td>d019</td>
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<tr>
<td>BI4-M12-VN6X-7M</td>
<td>1643301</td>
<td>4 mm, ™→</td>
<td>Complementary contact, NPN</td>
<td>7 m Cable</td>
<td>12 x 54 mm</td>
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<td>d019</td>
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<tr>
<td>BI4-M12-VP6X-H1141</td>
<td>1633200</td>
<td>4 mm, ™→</td>
<td>Complementary contact, PNP</td>
<td>Connector, M12 × 1</td>
<td>12 x 52 mm</td>
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<tr>
<td>BI4-M12-VN6X-H1141</td>
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<td>4 mm, ™→</td>
<td>Complementary contact, NPN</td>
<td>Connector, M12 × 1</td>
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<tr>
<td>BI4-M12-VP6X-H1141</td>
<td>4608030</td>
<td>4 mm, ™→</td>
<td>Complementary contact, PNP</td>
<td>Connector, M12 × 1</td>
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M18 – 3-Wire DC

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<th>Protection class</th>
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<tr>
<td>10…30 VDC</td>
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<td>-25…+70 °C</td>
<td>IP67</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LED</th>
<th>Housing material</th>
<th>Housing designation</th>
<th>Active area material</th>
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</thead>
<tbody>
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<td>LED</td>
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### Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Type</th>
<th>ID number</th>
<th>Switching distance</th>
<th>Output</th>
<th>Electrical connection</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>BI4-M12E-VN6X-H1141</td>
<td>1643201</td>
<td>4 mm, →</td>
<td>Complementary contact, NPN</td>
<td>Connector, M12 × 1</td>
<td>12 x 62 mm w007 d022</td>
</tr>
<tr>
<td>NI8-M12-VP6X 7M</td>
<td>4611327</td>
<td>8 mm, →</td>
<td>Complementary contact, PNP</td>
<td>7 m Cable</td>
<td>12 x 54 mm w006 d023</td>
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<tr>
<td>NI8-M12-VN6X 7M</td>
<td>4611326</td>
<td>8 mm, →</td>
<td>Complementary contact, NPN</td>
<td>7 m Cable</td>
<td>12 x 54 mm w005 d023</td>
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<tr>
<td>NI8-M12-VP6X-H1141</td>
<td>4611324</td>
<td>8 mm, →</td>
<td>Complementary contact, PNP</td>
<td>Connector, M12 × 1</td>
<td>12 x 52 mm w008 d021</td>
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<tr>
<td>NI8-M12-VN6X-H1141</td>
<td>4611323</td>
<td>8 mm, →</td>
<td>Complementary contact, NPN</td>
<td>Connector, M12 × 1</td>
<td>12 x 52 mm w007 d021</td>
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BI4-M12E-VP6X-H1141 4618620 15 mm, → Complementary contact, PNP 7 m Cable 30 x 64 mm w001 d029
BI15-M30-AN6X 46171 10 mm, → NO contact, NPN 2 m Cable 30 x 64 mm w002 d029
BI15-M30-AP6X-H1141 46176 10 mm, → NO contact, NPN 2 m Cable 30 x 64 mm w004 d025
BI15-M30-AP6X 4618530 15 mm, → NO contact, PNP 7 m Cable 30 x 64 mm w001 d029
BI10-M30-AN6X-H1141 46175 10 mm, → NO contact, NPN 2 m Cable 30 x 64 mm w004 d025
BI10-M30-AP6X-H1141 46176 10 mm, → NO contact, NPN 2 m Cable 30 x 64 mm w005 d023
BI10-M30-AP6X 4618532 15 mm, → NO contact, PNP 7 m Cable 30 x 64 mm w001 d029
BI8-M18-VP6X-H1141 4605156 8 mm, → Complementary contact, PNP 7 m Cable 18 x 54 mm w005 d024
BI8-M18-VN6X-H1141 4605157 8 mm, → Complementary contact, NPN 2 m Cable 18 x 54 mm w005 d024
BI8-M18-VP6X 4605154 8 mm, → Complementary contact, PNP 7 m Cable 18 x 54 mm w005 d024
BI8-M18E-VP6X-H1141 4605226 8 mm, → Complementary contact, PNP 7 m Cable 18 x 54 mm w005 d024
BI8-M18E-VN6X-H1141 4605227 8 mm, → Complementary contact, NPN 2 m Cable 18 x 54 mm w005 d024
NI14-M18-VP6X-H1141 4590620 14 mm, → NO contact, PNP 7 m Cable 18 x 54 mm w005 d024
NI14-M18-VN6X-H1141 4690630 14 mm, → Complementary contact, NPN 2 m Cable 18 x 54 mm w005 d024
NI14-M18-VP6X 4590610 14 mm, → NO contact, PNP 7 m Cable 18 x 54 mm w002 d024
NI14-M18-VN6X 4590609 14 mm, → Complementary contact, NPN 2 m Cable 18 x 54 mm w002 d024
NI14-M18-VP6X-H1141 4590620 14 mm, → NO contact, PNP 7 m Cable 18 x 54 mm w002 d024
NI14-M18-VN6X-H1141 4690630 14 mm, → Complementary contact, NPN 2 m Cable 18 x 54 mm w002 d024

NI8-M12-VP6X 7M | 46100 | 8 mm, → | NO contact, NPN | 7 m Cable | 18 x 54 mm w001 d024
NI8-M12-VN6X 7M | 46105 | 8 mm, → | NO contact, NPN | 7 m Cable | 18 x 54 mm w002 d024
NI8-M12-VP6X-H1141 | 461100 | 8 mm, → | NO contact, NPN | Connector, M12 × 1 | 18 x 52 mm w004 d025
NI8-M12-VN6X-H1141 | 461100 | 8 mm, → | NO contact, NPN | Connector, M12 × 1 | 18 x 52 mm w003 d025
NI14-M18-AP6X-H1141 | 4611400 | 14 mm, → | NO contact, NPN | Connector, M12 × 1 | 18 x 52 mm w004 d026
NI14-M18-AP6X-H1141 | 4611410 | 14 mm, → | NO contact, NPN | Connector, M12 × 1 | 18 x 52 mm w003 d026

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M18 – 4-Wire DC

General data

<table>
<thead>
<tr>
<th>Operating voltage</th>
<th>10...30 VDC</th>
<th>Switching element function</th>
<th>Complementary contact</th>
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<tbody>
<tr>
<td>Ambient temperature</td>
<td>-25...+70 °C</td>
<td>Protection class</td>
<td>IP67</td>
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</tbody>
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LED

<table>
<thead>
<tr>
<th>No.</th>
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<th>Active area material</th>
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<td>Plastic, PA12-GF30</td>
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</table>

Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Type</th>
<th>ID number</th>
<th>Switching distance</th>
<th>Output</th>
<th>Electrical connection</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
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<td>2 m Cable</td>
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</tr>
<tr>
<td>B1B-M18-VP6X 7M</td>
<td>4590706</td>
<td>8 mm, →</td>
<td>Complementary contact, PNP</td>
<td>7 m Cable</td>
<td>w006 d004</td>
</tr>
<tr>
<td>B1B-M18-VN6X</td>
<td>4605155</td>
<td>8 mm, →</td>
<td>Complementary contact, NPN</td>
<td>2 m Cable</td>
<td>w005 d004</td>
</tr>
<tr>
<td>B1B-M18-VN6X 7M</td>
<td>4590705</td>
<td>8 mm, →</td>
<td>Complementary contact, NPN</td>
<td>7 m Cable</td>
<td>w005 d004</td>
</tr>
<tr>
<td>B1B-M18-VN6X-H1141</td>
<td>4605156</td>
<td>8 mm, →</td>
<td>Complementary contact, PNP</td>
<td>Connector, M12 × 1</td>
<td>w008 d005</td>
</tr>
<tr>
<td>B1B-M18-VN6X-H1141</td>
<td>4605157</td>
<td>8 mm, →</td>
<td>Complementary contact, NPN</td>
<td>Connector, M12 × 1</td>
<td>w007 d005</td>
</tr>
<tr>
<td>B1B-M18E-VP6X-H1141</td>
<td>4605226</td>
<td>8 mm, →</td>
<td>Complementary contact, PNP</td>
<td>Connector, M12 × 1</td>
<td>w008 d007</td>
</tr>
<tr>
<td>B1B-M18E-VN6X-H1141</td>
<td>4605227</td>
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<td>Complementary contact, NPN</td>
<td>Connector, M12 × 1</td>
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</tr>
<tr>
<td>NI14-M18-VP6X 7M</td>
<td>4590610</td>
<td>14 mm, →</td>
<td>Complementary contact, PNP</td>
<td>7 m Cable</td>
<td>w006 d008</td>
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<td>NI14-M18-VN6X 7M</td>
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<td>14 mm, →</td>
<td>Complementary contact, NPN</td>
<td>7 m Cable</td>
<td>w005 d008</td>
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<tr>
<td>NI14-M18-VP6X-H1141</td>
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<td>14 mm, →</td>
<td>Complementary contact, PNP</td>
<td>Connector, M12 × 1</td>
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<td>Complementary contact, NPN</td>
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</table>

M30 – 3-Wire DC

General data

<table>
<thead>
<tr>
<th>Operating voltage</th>
<th>10...30 VDC</th>
<th>Switching element function</th>
<th>NO contact</th>
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</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>-25...+70 °C</td>
<td>Protection class</td>
<td>IP67</td>
</tr>
</tbody>
</table>

LED

<table>
<thead>
<tr>
<th>No.</th>
<th>Housing designation</th>
<th>Active area material</th>
</tr>
</thead>
<tbody>
<tr>
<td>M30 × 1.5</td>
<td>Plastic, PA12-GF30</td>
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</tbody>
</table>

Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Type</th>
<th>ID number</th>
<th>Switching distance</th>
<th>Output</th>
<th>Electrical connection</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>B110-M30-AP6X</td>
<td>46170</td>
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<td>NO contact, PNP</td>
<td>2 m Cable</td>
<td>w001 d009</td>
</tr>
<tr>
<td>B110-M30-AP6X</td>
<td>46171</td>
<td>10 mm, →</td>
<td>NO contact, NPN</td>
<td>2 m Cable</td>
<td>w002 d009</td>
</tr>
<tr>
<td>B110-M30-AP6X-H1141</td>
<td>46175</td>
<td>10 mm, →</td>
<td>NO contact, PNP</td>
<td>Connector, M12 × 1</td>
<td>w004 d030</td>
</tr>
<tr>
<td>B110-M30-AN6X-H1141</td>
<td>46176</td>
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<td>NO contact, NPN</td>
<td>Connector, M12 × 1</td>
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</tr>
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<td>NO contact, PNP</td>
<td>2 m Cable</td>
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<td>7 m Cable</td>
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<tr>
<td>B115-M30-AN6X</td>
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### Inductive Sensors

#### Types and Features – Selection Table

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<th>Electrical connection</th>
<th>Dimensions</th>
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</thead>
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<td>NO contact, NPN</td>
<td>7 m Cable</td>
<td>30 x 64 mm</td>
</tr>
<tr>
<td>BI15-M30-AP6X-H1141</td>
<td>46185</td>
<td>15 mm,</td>
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<tr>
<td>NI20-M30-AP6X-H1141</td>
<td>4670510</td>
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<td>NO contact, PNP</td>
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<td>NO contact, NPN</td>
<td>Connector, M12 x 1</td>
<td>30 x 62 mm</td>
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</tbody>
</table>

#### M30 – 4-Wire DC

**General data**
- **Operating voltage**: 10...30 VDC
- **Ambient temperature**: -25...+70 °C
- **Protection class**: IP67

**Electrical connection**: 7 m Cable

**Dimensions**: 30 x 64 mm

**Housing designation**: M30 x 1.5

**Active area material**: Plastic, PA12-GF30

**Housing material**: CuZn, Chrome-plated

**LED**: LED

**Switching element function**: Complementary contact

---

**Types and Features – Selection Table**

<table>
<thead>
<tr>
<th>Type</th>
<th>ID number</th>
<th>Switching distance</th>
<th>Output</th>
<th>Electrical connection</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>BI15-M30-VP6X</td>
<td>4590716</td>
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<td>Complementary contact, PNP</td>
<td>2 m Cable</td>
<td>30 x 64 mm</td>
</tr>
<tr>
<td>BI15-M30-VP6X 7M</td>
<td>4590715</td>
<td>15 mm,</td>
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<td>7 m Cable</td>
<td>30 x 64 mm</td>
</tr>
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<td>BI15-M30-VN6X</td>
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<tr>
<td>BI15-M30-VP6X-H1141</td>
<td>4590718</td>
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<td>Connector, M12 x 1</td>
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<tr>
<td>BI15-M30-VN6X-H1141</td>
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<tr>
<td>NI20-M30-VP6X 7M</td>
<td>4590611</td>
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<td>Connector, M12 x 1</td>
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</table>
CK40 – 4-Wire DC

<table>
<thead>
<tr>
<th>General data</th>
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</tr>
</thead>
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<tr>
<td><strong>Switching distance</strong></td>
<td>50 mm,</td>
</tr>
<tr>
<td><strong>Electrical connection</strong></td>
<td>Connector, M12 x 1</td>
</tr>
<tr>
<td><strong>Operating voltage</strong></td>
<td>10...65 VDC</td>
</tr>
<tr>
<td><strong>Ambient temperature</strong></td>
<td>-30...+85 °C</td>
</tr>
<tr>
<td><strong>Power-on indication</strong></td>
<td>2 x LEDs</td>
</tr>
<tr>
<td><strong>LED</strong></td>
<td>LED</td>
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<tr>
<td><strong>Housing designation</strong></td>
<td>CK40</td>
</tr>
<tr>
<td><strong>Switching element function</strong></td>
<td>Complementary contact</td>
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</table>

Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Type</th>
<th>ID number</th>
<th>Output</th>
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</thead>
<tbody>
<tr>
<td>NI50U-CK40-VP4X2-H1141</td>
<td>1538302</td>
<td>Complementary contact, PNP</td>
</tr>
<tr>
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<td>1625806</td>
<td>Complementary contact, NPN</td>
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Variable orientation of active face in 5 directions

QV40 – 3-Wire DC

<table>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Switching distance</strong></td>
<td>50 mm,</td>
</tr>
<tr>
<td><strong>Electrical connection</strong></td>
<td>Connector, M12 x 1</td>
</tr>
<tr>
<td><strong>Operating voltage</strong></td>
<td>10...30 VDC</td>
</tr>
<tr>
<td><strong>Ambient temperature</strong></td>
<td>-30...+85 °C</td>
</tr>
<tr>
<td><strong>Power-on indication</strong></td>
<td>2 x LEDs</td>
</tr>
<tr>
<td><strong>LED</strong></td>
<td>LED</td>
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<tr>
<td><strong>Housing designation</strong></td>
<td>QV40</td>
</tr>
<tr>
<td><strong>Switching element function</strong></td>
<td>NO contact</td>
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</table>

Types and Features – Selection Table

<table>
<thead>
<tr>
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<th>ID number</th>
<th>Output</th>
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<tr>
<td>NI50U-QV40-AP6X2-H1141</td>
<td>1625853</td>
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<tr>
<td>NI50U-QV40-AN6X2-H1141</td>
<td>1625865</td>
<td>NO contact, NPN</td>
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</tbody>
</table>

Variable orientation of active face in 5 directions without tools
Magnetic Field Sensors

UNT Design

The universal magnetic field sensors of the series UNT are especially compact and characterized above all by a fast and flexible installation. Thanks to the pre-fixation lip, they fit on T-groove cylinders and can even be mounted overhead with one hand only and without tools. With the optionally available accessories you can also mount them on round, tie-rod and dovetail cylinders. The bright and all-round visible LED allows to see the switching state from any perspective.

Features

- Compact design
- Fast and flexible installation
- Stable mounting on T-groove cylinders without mounting accessories
- Mounting accessories for mounting on all conventional pneumatic cylinders
- Tool for fine adjustments and stopper directly mountable on the sensor
- 2 m connection cable or 0.3 m cable with connector, M8 × 1
- Excellent EMC immunity
- Good visible LED

Type code

B I M - UNT - A P 7 X - 0.3 - PSG 3 S

B I M Functional Principle - UNT Design - A P 7 X Electrical Version -

- Functional Principle
  - M Magnetically actuated
  - I Inductive
- Installation Mode
  - B Flush mounting
- Housing
  - UNT 5 × 6 × 28 mm

0.3 Cable Length - PSG 3 S Electrical Connection: Connector

- Cable Length
  - 0.3 0.3 m cable length
  - Blank 2 m cable length
- Connector Design
  - PSG M8 × 1 male, straight
- Type
  - S Snap-on type (8 mm)
- Number of Contacts
  - 3 Number of Contacts
- Display
  - X LED
- Voltage Range
  - 7 10...30 VDC
- Output Type
  - P PNP output
- Output Function
  - A Working current (NO)
UNT - 3-Wire DC - Cable Connection

<table>
<thead>
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<tbody>
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<td><strong>ID number</strong></td>
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<tr>
<td><strong>Output</strong></td>
</tr>
<tr>
<td><strong>Operating voltage</strong></td>
</tr>
<tr>
<td><strong>Ambient temperature</strong></td>
</tr>
<tr>
<td><strong>LED</strong></td>
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<tr>
<td><strong>Housing designation</strong></td>
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<tr>
<td><strong>Cylindrical design</strong></td>
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</tbody>
</table>

UNT - 3-Wire DC - Cable With Connector Ø 8 mm

<table>
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<td><strong>Output</strong></td>
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<tr>
<td><strong>Operating voltage</strong></td>
</tr>
<tr>
<td><strong>Ambient temperature</strong></td>
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<tr>
<td><strong>LED</strong></td>
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<tr>
<td><strong>Housing designation</strong></td>
</tr>
<tr>
<td><strong>Cylindrical design</strong></td>
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</tbody>
</table>
Connectivity

Turck offers standardized and customized solutions for all requirements of harsh industrial environments. The portfolio of recommended products includes pre-assembled M8 × 1 and M12 × 1 female and male connectors as well as connection and extension cables, 4-port and 8-port junctions, Y-splitters and block junctions in the designs M8 × 1 and M12 × 1. Field-wireable connectors round off the portfolio, allowing you to use them with existing cables. There is a connector for virtually every Turck sensor available.

As a universal product series, the TEL (PVC) and TXL (PUR) connection and extension cables effectively reduce the effort required for installation and stock-keeping. Both the M12 × 1 and M8 × 1 variants are offered as straight and angled female and male connectors.

For the connection to Industrial Ethernet, the recommended portfolio of Turck products offers connection and extension cables in the designs M8, M12 and RJ45. All Ethernet cables are available as 4414 and 4416 variants.
<table>
<thead>
<tr>
<th>Type Code – M12</th>
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**Grip Body**

**LED**

**Cable Length**

<table>
<thead>
<tr>
<th>LED</th>
<th>Without LED</th>
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<tbody>
<tr>
<td>P7X2</td>
<td>2 PNP LED, Pin 4 = YE, Power = GN</td>
</tr>
<tr>
<td>P7X3</td>
<td>3 PNP LED, Pin 2 = YE, Pin 4 = YE</td>
</tr>
<tr>
<td>P7X3.1</td>
<td>3 PNP LED, Pin 2 = RD, Pin 4 = YE, Power = GN</td>
</tr>
<tr>
<td>P7X3.2</td>
<td>3 PNP LED, Pin 2 = WH, Pin 4 = YE, Power = GN</td>
</tr>
<tr>
<td>N7X…</td>
<td>NPN, LED, Number and Color analog P7X…</td>
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**Cable Quality**

<table>
<thead>
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<tbody>
<tr>
<td>TXB</td>
</tr>
<tr>
<td>TXL</td>
</tr>
<tr>
<td>TXG</td>
</tr>
<tr>
<td>TXO</td>
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<tr>
<td>TXY</td>
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<tr>
<td>TEB</td>
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<td>TEL</td>
</tr>
<tr>
<td>TEG</td>
</tr>
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<tr>
<td>TFE</td>
</tr>
<tr>
<td>TFG</td>
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<tr>
<td>TFW</td>
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**Connectivity**

### Type Code – Junction Box

<table>
<thead>
<tr>
<th>Type</th>
<th>Product series</th>
<th>Ports</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB</td>
<td>8 M12 V</td>
<td>5 P 3</td>
<td></td>
</tr>
</tbody>
</table>

- **Material threaded bush**: blank (brass, nickel-plated), stainless steel
- **Connector**: M12 male M12 x 1
- **Number of ports**: 4 ports, 6 ports, 8 ports

### Connection

<table>
<thead>
<tr>
<th>Type Code</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS19 T</td>
<td></td>
</tr>
</tbody>
</table>
- **Connector exit**: top exit, side exit
- **Type**: CSV12 (12-pin M23, stainless steel), CS19 (19-pin M23, brass, nickel-plated), CSV19 (19-pin M23, stainless steel)
- **Number of LEDs (if applicable)**: 2 (1 power + 1 signal LED/port), 3 (1 power + 2 signal LEDs/port)
- **LED Type**: blank (without LED), P (PNP LED), N (NPN LED)
- **Channels per port**: 4 (1 signal/port), 5 (2 signal/port)
PVC Cable – Black

- 3 and 4-pin
- Resistant to alkaline solutions, chemicals and oils
- Resistant to microbes and hydrolysis
- Flame-retardant and free from LABS
- cULus approved

**Female, 3-pin**

| 4 BK | 3 BU | 1 BN |

**Male, 3-pin**

| 1 BN | 3 BU | 4 BK |

**Female, 4-pin**

| 4 BK | 3 BU | 2 WH | 1 BN |

| **Connector** | Plastic, TPU, Black |
| **Contacts** | Brass, CuZn, Gold-plated |
| **Contact carriers** | TPU, Black |
| **Coupling nut/screw** | Brass, CuZn, Nickel-plated |
| **Protection class** | IP67 (Only when screwed tight) |
| **Mechanical lifespan** | > 100 Mating cycles |
| **Pollution degree** | 3 |

| **Cable** | PVC |
| **Core insulation** | PVC |
| **Arrangement of strands** | 42 x 0.1 mm |

| **Electrical properties at +20 °C** |
| **Current load** | 4 A |
| **Insulation resistance** | > 30.5 MΩ/km |
| **Test voltage** | 2000 V |
| **Forward resistance** | max. 57 Ω/km |

| **Mechanical and chemical properties** |
| **Bending radius (stationary laying)** | > 5 x Ø |
| **Bending radius (flexible use)** | > 10 x Ø |

| **Ambient temperature** |
| **Stationary usage** | -40...+105 °C |
| **Non-stationary usage** | 0...+80 °C |
### Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Cable diameter [mm ± 0.20]</th>
<th>Cable length [m]</th>
<th>Core cross-section [mm²]</th>
<th>ID number</th>
<th>Type</th>
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<tbody>
<tr>
<td>3</td>
<td>4.7</td>
<td>2</td>
<td>3 x 0.34</td>
<td>6625058</td>
<td>PKG3M-2/TEL</td>
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<tr>
<td>3</td>
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<td>3 x 0.34</td>
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<td>PKG3M-5/TEL</td>
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<td>3 x 0.34</td>
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<td>PKG4M-5-PSG4M/TEL</td>
</tr>
</tbody>
</table>
PUR Cable – Black

■ 3-pin
■ Qualified for drag chain use and flame-retardant
■ Resistant to chemicals, UV radiation and oils
■ Free from halogen, silicone, PVC and LABS
■ cULus approved

<table>
<thead>
<tr>
<th>Female, 3-pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 BK</td>
</tr>
<tr>
<td>3 BU</td>
</tr>
<tr>
<td>1 BN</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Male, 3-pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 BK</td>
</tr>
<tr>
<td>1 BN</td>
</tr>
<tr>
<td>3 BU</td>
</tr>
</tbody>
</table>

**Connector**
- Grip: Plastic, TPU, Black
- Contacts: Brass, CuZn, Gold-plated
- Contact carriers: TPU, Black
- Coupling nut/screw: Brass, CuZn, Nickel-plated
- Protection class: IP67 (Only when screwed tight)
- Mechanical lifespan: > 100 Mating cycles
- Pollution degree: 3

**Cable**
- Core insulation: PP
- Core cross-section: 3 x 0.34 mm²
- Arrangement of strands: 42 x 0.1 mm

**Electrical properties at +20 °C**
- Current load: 4 A
- Rated voltage: 60 V
- Insulation resistance: > 30.5 MΩ/km
- Test voltage: 2000 V
- Forward resistance: max. 57 Ω/km

**Mechanical and chemical properties**
- Max. tensile strength (static): ≤ 50 N/mm²
- Max. tensile strength (dynamic): ≤ 20 N/mm²
- Bending cycles: > 5 mil.
- Bending radius (stationary laying): > 5 x Ø
- Bending radius (flexible use): > 10 x Ø
- Admissible acceleration: max. 5 m/s²
- Admissible travel path, horizontal: 5 m (at 5 m/s)
- Admissible travel path, vertical: 2 m (at 5 m/s)
- Admissible traversing speed: 3.3 m/s
- Torsional stress: ± 180 °/m

**Ambient temperature**
- Stationary usage: -50...+80 °C
- Non-stationary usage: -25...+80 °C
- Drag chain operation: -25...+60 °C
## Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Cable diameter [mm ± 0.20]</th>
<th>Cable length [m]</th>
<th>Core cross-section [mm²]</th>
<th>ID number</th>
<th>Type</th>
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<td>3 x 0.34</td>
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<tr>
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<td>3 x 0.34</td>
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<td>PKG3M-10/TXL</td>
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Connection and Extension Cables – M8 × 1

PUR Cable – Black

- 4-pin
- Qualified for drag chain use and flame-retardant
- Resistant to chemicals, UV radiation and oils
- Free from halogen, silicone, PVC and LABS
- cULus approved

### Connector

<table>
<thead>
<tr>
<th>Grip</th>
<th>Plastic, TPU, Black</th>
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<tbody>
<tr>
<td>Contacts</td>
<td>Brass, CuZn, Gold-plated</td>
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<tr>
<td>Contact carriers</td>
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<tr>
<td>Coupling nut/screw</td>
<td>Brass, CuZn, Nickel-plated</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP67 (Only when screwed tight)</td>
</tr>
<tr>
<td>Mechanical lifespan</td>
<td>&gt; 100 Mating cycles</td>
</tr>
<tr>
<td>Pollution degree</td>
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</tr>
</tbody>
</table>

#### Cable

| Core insulation | PP |
| Core cross-section | 4 x 0.34 mm² |
| Arrangement of strands | 42 x 0.1 mm |

#### Electrical properties at +20 °C

| Current load | 4 A |
| Rated voltage | 30 V |
| Insulation resistance | > 30.5 MΩ/km |
| Test voltage | 2000 V |
| Forward resistance | max. 57 Ω/km |

#### Mechanical and chemical properties

| Max. tensile strength (static) | ≤ 50 N/mm² |
| Max. tensile strength (dynamic) | ≤ 20 N/mm² |
| Bending cycles | > 5 mil. |
| Bending radius (stationary laying) | > 5 x Ø |
| Bending radius (flexible use) | > 10 x Ø |
| Admissible acceleration | max. 5 m/s² |
| Admissible travel path, horizontal | 5 m (at 5 m/s²) |
| Admissible travel path, vertical | 2 m (at 5 m/s²) |
| Admissible traversing speed | 3.3 m/s |
| Torsional stress | ± 180°/m |

#### Ambient temperature

| Stationary usage | -50...+80 °C |
| Non-stationary usage | -25...+80 °C |
| Drag chain operation | -25...+60 °C |
## Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Cable diameter [mm ± 0.20]</th>
<th>Cable length [m]</th>
<th>Core cross-section [mm²]</th>
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<th>Type</th>
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Connection and Extension Cables – M12 × 1

PVC Cable – Black

- 4-pin
- Resistant to alkaline solutions, chemicals and oils
- Resistant to microbes and hydrolysis
- Flame-retardant and free from LABS
- cULus approved

### Connector

| Grip | Plastic, TPU, Black |
| Contacts | Brass, CuZn, Gold-plated |
| Contact carriers | TPU, Black |
| Coupling nut/screw | Brass, CuZn, Nickel-plated |
| Protection class | IP67 (Only when screwed tight) |
| Mechanical lifespan | > 100 Mating cycles |
| Pollution degree | 3 |

### Cable

| Core insulation | PVC |
| Core cross-section | 4 x 0.34 mm² |
| Arrangement of strands | 42 x 0.1 mm |

#### Electrical properties at +20 °C

| Current load | 4 A |
| Rated voltage | 250 V |
| Insulation resistance | > 30.5 MΩ/km |
| Test voltage | 2000 V |
| Forward resistance | max. 57 Ω/km |

#### Mechanical and chemical properties

| Bending radius (stationary laying) | > 5 x Ø |
| Bending radius (flexible use) | > 10 x Ø |
| Ambient temperature |
| Stationary usage | -40…+105 °C |
| Non-stationary usage | 0…+80 °C |
### Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Cable diameter [mm ± 0.20]</th>
<th>Cable length [m]</th>
<th>Core cross-section [mm²]</th>
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<th>Type</th>
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</table>
Connection and Extension Cables – M12 × 1

PVC Cable – Black

- 3 and 5-pin
- Resistant to alkaline solutions, chemicals and oils
- Resistant to microbes and hydrolysis
- Flame-retardant and free from LABS
- cULus approved

<table>
<thead>
<tr>
<th>Connector</th>
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<tr>
<td>Grip</td>
<td>Plastic, TPU, Black</td>
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</tr>
<tr>
<td>Contacts</td>
<td>Brass, CuZn, Gold-plated</td>
<td></td>
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<tr>
<td>Contact carriers</td>
<td>TPU, Black</td>
<td></td>
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<tr>
<td>Coupling nut/screw</td>
<td>Brass, CuZn, Nickel-plated</td>
<td></td>
</tr>
<tr>
<td>Protection class</td>
<td>IP67 (Only when screwed tight)</td>
<td></td>
</tr>
<tr>
<td>Mechanical lifespan</td>
<td>&gt; 100 Mating cycles</td>
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<tr>
<td>Pollution degree</td>
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<td>Core insulation</td>
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<td>Arrangement of strands</td>
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**Electrical properties at +20 °C**

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<td>Current load</td>
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<td>Insulation resistance</td>
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<td>Test voltage</td>
<td>2000 V</td>
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<tr>
<td>Forward resistance</td>
<td>max. 57 Ω/km</td>
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**Mechanical and chemical properties**

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<table>
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<tr>
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<tbody>
<tr>
<td>Bending radius (stationary laying)</td>
<td>&gt; 5 x Ø</td>
</tr>
<tr>
<td>Bending radius (flexible use)</td>
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**Ambient temperature**

<p>| | |</p>
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<tbody>
<tr>
<td>Stationary usage</td>
<td>-40...+105 °C</td>
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<tr>
<td>Non-stationary usage</td>
<td>0...+80 °C</td>
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</table>
### Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Cable diameter [mm ± 0.20]</th>
<th>Cable length [m]</th>
<th>Core cross-section [mm²]</th>
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<th>Type</th>
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<tbody>
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<td>3</td>
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Connection and Extension Cables – M12 × 1

PUR Cable – Black

- 3, 4, 5 and 8-pin
- Qualified for drag chain use and flame-retardant
- Resistant to chemicals, UV radiation and oils
- Free from halogen, silicone, PVC and LABS
- cULus approved

### Connector

<table>
<thead>
<tr>
<th>Grip</th>
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<tbody>
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<td>TPU, Black</td>
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<td>IP67 (Only when screwed tight)</td>
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### Cable

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<th>Core insulation</th>
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### Electrical properties at +20 °C

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<tr>
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### Mechanical and chemical properties

| Max. tensile strength (static) | ≤ 50 N/mm² |
| Max. tensile strength (dynamic) | ≤ 20 N/mm² |
| Bending cycles               | > 5 mil.   |
| Bending radius (stationary laying) | > 5 × Ø   |
| Bending radius (flexible use)  | > 10 × Ø   |
| Admissible acceleration      | max. 5 m/s |
| Admissible travel path, horizontal | 5 m (at 5 m/s) |
| Admissible travel path, vertical | 2 m (at 5 m/s) |
| Admissible traversing speed   | 3.3 m/s    |
| Torsional stress             | ± 180°/m    |

### Ambient temperature

| Stationary usage | -50…+80 °C |
| Non-stationary usage | -25…+80 °C |
| Drag chain operation | -25…+60 °C |

---

**Table:**

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<tr>
<th>Female, 3-pin</th>
<th>Male, 3-pin</th>
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Hans Turck GmbH & Co. KG | 45466 Mülheim an der Ruhr, Germany | T +49 208 4952-0 | F +49 208 4952-264 | more@turck.com | www.turck.com
## Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Cable diameter [mm ± 0.20]</th>
<th>Cable length [m]</th>
<th>Core cross-section [mm²]</th>
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### Types and Features – Selection Table

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### Types and Features – Selection Table

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<td>RKC4.5T-5/TXL</td>
</tr>
<tr>
<td>5</td>
<td>5.5</td>
<td>10</td>
<td>5 x 0.34</td>
<td>6625508</td>
<td>RKC4.5T-10/TXL</td>
</tr>
<tr>
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</tr>
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</tr>
<tr>
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<td>2</td>
<td>5 x 0.34</td>
<td>6625612</td>
<td>RKC4.5T-2-RSC4.5T/TXL</td>
</tr>
<tr>
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<td>5.5</td>
<td>5</td>
<td>5 x 0.34</td>
<td>6625732</td>
<td>RKC4.5T-5-RSC4.5T/TXL</td>
</tr>
</tbody>
</table>

**Commodity Catalog EN_20170629.indd** 31
PUR Cable – Black, Shielded

- 3, 4 and 5-pin
- Qualified for drag chain use and flame-retardant
- Resistant to chemicals, UV radiation and oils
- Free from halogen, silicone, PVC and LABS
- cULus approved

**Connector**

<table>
<thead>
<tr>
<th>Connector</th>
<th>Plastic, TPU, Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contacts</td>
<td>Brass, CuZn, Gold-plated</td>
</tr>
<tr>
<td>Contact carriers</td>
<td>TPU, Black</td>
</tr>
<tr>
<td>Coupling nut/screw</td>
<td>Brass, CuZn, Nickel-plated</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP67 (Only when screwed tight)</td>
</tr>
<tr>
<td>Mechanical lifespan</td>
<td>&gt; 100 Mating cycles</td>
</tr>
<tr>
<td>Pollution degree</td>
<td>3</td>
</tr>
</tbody>
</table>

**Cable**

<table>
<thead>
<tr>
<th>Cable</th>
<th>Core insulation</th>
<th>PP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arrangement of strands</td>
<td>42 x 0.1 mm</td>
<td></td>
</tr>
<tr>
<td>Shield</td>
<td>Aluminum foil, tinned copper braid</td>
<td></td>
</tr>
</tbody>
</table>

**Electrical properties at +20 °C**

<table>
<thead>
<tr>
<th>Electrical properties</th>
<th>4 A</th>
<th>&gt; 30.5 MΩ/km</th>
<th>2000 V</th>
<th>max. 57 Ω/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current load</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulation resistance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test voltage</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forward resistance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Mechanical and chemical properties**

<table>
<thead>
<tr>
<th>Mechanical and chemical properties</th>
<th>≤ 50 N/mm²</th>
<th>≤ 20 N/mm²</th>
<th>&gt; 2 mil.</th>
<th>&gt; 5 x Ø</th>
<th>&gt; 10 x Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. tensile strength (static)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. tensile strength (dynamic)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bending cycles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bending radius (stationary laying)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bending radius (flexible use)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Admissible acceleration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Admissible travel path, horizontal</td>
<td>5 m (at 5 m/s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Admissible travel path, vertical</td>
<td>2 m (at 5 m/s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Admissible traversing speed</td>
<td>3.3 m/s</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Torsional stress</td>
<td>± 180°/m</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

**Ambient temperature**

<table>
<thead>
<tr>
<th>Ambient temperature</th>
<th>-50...+80 °C</th>
<th>-25...+80 °C</th>
<th>-25...+60 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stationary usage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-stationary usage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drag chain operation</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Cable diameter [mm ± 0.20]</th>
<th>Cable length [m]</th>
<th>Core cross-section [mm²]</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>5</td>
<td>2</td>
<td>3 x 0.34</td>
<td>6626293</td>
<td>RKS4T-2/TXL</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>5</td>
<td>3 x 0.34</td>
<td>6626294</td>
<td>RKS4T-5/TXL</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>10</td>
<td>3 x 0.34</td>
<td>6626295</td>
<td>RKS4T-10/TXL</td>
</tr>
<tr>
<td>4</td>
<td>5.3</td>
<td>2</td>
<td>4 x 0.34</td>
<td>6626333</td>
<td>RKS4.4T-2/TXL</td>
</tr>
<tr>
<td>4</td>
<td>5.3</td>
<td>5</td>
<td>4 x 0.34</td>
<td>6626334</td>
<td>RKS4.4T-5/TXL</td>
</tr>
<tr>
<td>4</td>
<td>5.3</td>
<td>10</td>
<td>4 x 0.34</td>
<td>6626335</td>
<td>RKS4.4T-10/TXL</td>
</tr>
<tr>
<td>5</td>
<td>5.7</td>
<td>2</td>
<td>5 x 0.34</td>
<td>6626373</td>
<td>RKS4.5T-2/TXL</td>
</tr>
<tr>
<td>5</td>
<td>5.7</td>
<td>5</td>
<td>5 x 0.34</td>
<td>6626374</td>
<td>RKS4.5T-5/TXL</td>
</tr>
<tr>
<td>5</td>
<td>5.7</td>
<td>10</td>
<td>5 x 0.34</td>
<td>6626375</td>
<td>RKS4.5T-10/TXL</td>
</tr>
</tbody>
</table>

- **Number of pins**: Options include 3, 4, and 5 pins.
- **Cable diameter**: Available in 5 [mm ± 0.20] and 5.3 [mm ± 0.20] options.
- **Cable length**: Options are 2, 5, and 10 meters.
- **Core cross-section**: Options include 3 x 0.34 [mm²] and 4 x 0.34 [mm²].
- **ID number**: Unique identifiers for each cable type.
- **Type**: Describes the specific type of cable, such as RKS4T-2/TXL.
Supply Cable for Multiple Passive Junctions – M23 × 1

PUR Cable – Black

- 12-pin
- Flame-retardant acc. to FT1
- Free from halogen, silicone and PVC
- RoHS-compliant

<table>
<thead>
<tr>
<th>Female, 12-pin (7 assigned)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
</tr>
<tr>
<td>7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Female, 12-pin (11 assigned)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grip</td>
</tr>
<tr>
<td>Contacts</td>
</tr>
<tr>
<td>Coupling nut/screw</td>
</tr>
<tr>
<td>Protection class</td>
</tr>
<tr>
<td>Mechanical lifespan</td>
</tr>
<tr>
<td>Pollution degree</td>
</tr>
<tr>
<td>Cable</td>
</tr>
<tr>
<td>Core insulation</td>
</tr>
<tr>
<td>Arrangement of strands</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical properties at +20 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mechanical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bending radius (stationary laying)</td>
</tr>
<tr>
<td>Bending radius (flexible use)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ambient temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stationary usage</td>
</tr>
</tbody>
</table>
### Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Cable diameter [mm ± 0.20]</th>
<th>Cable length [m]</th>
<th>Core cross-section [mm²]</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>6.7</td>
<td>5</td>
<td>7 x 0.82</td>
<td>6631122</td>
<td>CKCM12-7-5/TXL</td>
</tr>
<tr>
<td></td>
<td>6.7</td>
<td>10</td>
<td>7 x 0.82</td>
<td>6631123</td>
<td>CKCM12-7-10/TXL</td>
</tr>
<tr>
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<td>8.4</td>
<td>5</td>
<td>11 x 0.82</td>
<td>6631124</td>
<td>CKCM12-11-5/TXL</td>
</tr>
<tr>
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<td>8.4</td>
<td>10</td>
<td>11 x 0.82</td>
<td>6631125</td>
<td>CKCM12-11-10/TXL</td>
</tr>
<tr>
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<td>6.7</td>
<td>5</td>
<td>7 x 0.82</td>
<td>6631126</td>
<td>CKCWM12-7-5/TXL</td>
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<tr>
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<td>6.7</td>
<td>10</td>
<td>7 x 0.82</td>
<td>6631127</td>
<td>CKCWM12-7-10/TXL</td>
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<td>8.4</td>
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<td>11 x 0.82</td>
<td>6631128</td>
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<td>8.4</td>
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<td>11 x 0.82</td>
<td>6631129</td>
<td>CKCWM12-11-10/TXL</td>
</tr>
</tbody>
</table>
Supply Cable for Multiple Passive Junctions – M23 × 1

**PUR Cable – Black**

- 19-pin
- Flame-retardant acc. to FT1
- Free from halogen, silicone and PVC
- RoHS-compliant

<table>
<thead>
<tr>
<th>Connector</th>
<th>Grip</th>
<th>Plastic, TPU, Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contacts</td>
<td>Brass, CuZn, Gold-plated</td>
<td></td>
</tr>
<tr>
<td>Contact carriers</td>
<td>TPU, Gray</td>
<td></td>
</tr>
<tr>
<td>Coupling nut/screw</td>
<td>CuZn, Nickel-plated</td>
<td></td>
</tr>
<tr>
<td>Protection class</td>
<td>IP67 (Only when screwed tight)</td>
<td></td>
</tr>
<tr>
<td>Mechanical lifespan</td>
<td>&gt; 100 Mating cycles</td>
<td></td>
</tr>
<tr>
<td>Pollution degree</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Cable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core insulation</td>
<td>PP</td>
<td></td>
</tr>
<tr>
<td>Arrangement of strands</td>
<td>19 x 0.23 mm</td>
<td></td>
</tr>
<tr>
<td>19 x 0.15 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrical properties at +20 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current load</td>
<td>2 A</td>
<td></td>
</tr>
<tr>
<td>Rated voltage</td>
<td>150 V</td>
<td></td>
</tr>
<tr>
<td>Mechanical and chemical properties</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bending radius (stationary laying)</td>
<td>&gt; 5 x Ø</td>
<td></td>
</tr>
<tr>
<td>Bending radius (flexible use)</td>
<td>&gt; 10 x Ø</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stationary usage</td>
<td>-40…+80 °C</td>
<td></td>
</tr>
</tbody>
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---

**Number of pins**

<table>
<thead>
<tr>
<th>Cable diameter [mm ± 0.20]</th>
<th>Cable length [m]</th>
<th>Core cross-section [mm²]</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>19 7.6 5 8 x 0.32</td>
<td>6631130</td>
<td>CKM19-11-5/TXL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19 7.6 10 8 x 0.32</td>
<td>6631131</td>
<td>CKM19-11-10/TXL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19 8.9 5 16 x 0.32</td>
<td>6631132</td>
<td>CKM19-19-5/TXL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19 8.9 10 16 x 0.32</td>
<td>6631133</td>
<td>CKM19-19-10/TXL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19 7.6 5 8 x 0.32</td>
<td>6631134</td>
<td>CKWM19-11-5/TXL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19 7.6 10 8 x 0.32</td>
<td>6631135</td>
<td>CKWM19-11-10/TXL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19 8.9 5 16 x 0.32</td>
<td>6631136</td>
<td>CKWM19-19-5/TXL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19 8.9 10 16 x 0.32</td>
<td>6631137</td>
<td>CKWM19-19-10/TXL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Cable diameter [mm ± 0.20]</th>
<th>Cable length [m]</th>
<th>Core cross-section [mm²]</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>7.6</td>
<td>5</td>
<td>8 x 0.32</td>
<td>6631130</td>
<td>CKM19-11-5/TXL</td>
</tr>
<tr>
<td>19</td>
<td>7.6</td>
<td>10</td>
<td>8 x 0.32</td>
<td>6631131</td>
<td>CKM19-11-10/TXL</td>
</tr>
<tr>
<td>19</td>
<td>8.9</td>
<td>5</td>
<td>16 x 0.32</td>
<td>6631132</td>
<td>CKM19-19-5/TXL</td>
</tr>
<tr>
<td>19</td>
<td>8.9</td>
<td>10</td>
<td>16 x 0.32</td>
<td>6631133</td>
<td>CKM19-19-10/TXL</td>
</tr>
<tr>
<td>19</td>
<td>7.6</td>
<td>5</td>
<td>8 x 0.32</td>
<td>6631134</td>
<td>CKWM19-11-5/TXL</td>
</tr>
<tr>
<td>19</td>
<td>7.6</td>
<td>10</td>
<td>8 x 0.32</td>
<td>6631135</td>
<td>CKWM19-11-10/TXL</td>
</tr>
<tr>
<td>19</td>
<td>8.9</td>
<td>5</td>
<td>16 x 0.32</td>
<td>6631136</td>
<td>CKWM19-19-5/TXL</td>
</tr>
<tr>
<td>19</td>
<td>8.9</td>
<td>10</td>
<td>16 x 0.32</td>
<td>6631137</td>
<td>CKWM19-19-10/TXL</td>
</tr>
</tbody>
</table>
Field-Wireable Connectors

M8 × 1

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Rated voltage [V]</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female connector, straight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>60</td>
<td>6901030</td>
<td>BS133-0</td>
</tr>
<tr>
<td>4</td>
<td>30</td>
<td>6901031</td>
<td>BS143-0</td>
</tr>
<tr>
<td>Male connector, straight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>60</td>
<td>6901012</td>
<td>BS5133-0</td>
</tr>
<tr>
<td>4</td>
<td>30</td>
<td>6901013</td>
<td>BS5143-0</td>
</tr>
</tbody>
</table>

Connection mode: Screw-clamp connection

Grip: Plastic, PBT, Black
Coupling nut/screw: Die-cast zinc, GD-Zn
Contacts: Brass, CuZn, Gold-plated
Contact carriers: PA 66 (UL 94 HB), Black
Protection class: IP67
Current load: 4 A
Terminal cross-section: 0.14…0.5 mm²
Cable external diameter: 3.5…5 mm
Storage temperature: -40…+85 °C

Number of pins

Female connector

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>3-pin</th>
<th>4-pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

Male connector

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>3-pin</th>
<th>4-pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>1</td>
</tr>
</tbody>
</table>
## M12 × 1

### Female connector, straight

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Rated voltage [V]</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>250</td>
<td>69049</td>
<td>B8141-0</td>
</tr>
<tr>
<td>5</td>
<td>125</td>
<td>6904601</td>
<td>B8141-0/PG9</td>
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</tbody>
</table>

### Female connector, angled

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Rated voltage [V]</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>250</td>
<td>69048</td>
<td>B8241-0</td>
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<tr>
<td>5</td>
<td>125</td>
<td>6904603</td>
<td>B8251-0/9</td>
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</tbody>
</table>

### Male connector, straight

<table>
<thead>
<tr>
<th>Connection mode</th>
<th>Screw-clamp connection</th>
<th>Screw-clamp connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grip</td>
<td>Plastic, PA, Black</td>
<td>Plastic, PA, Black</td>
</tr>
<tr>
<td>Coupling nut/screw</td>
<td>Plastic, PA, Black</td>
<td>Plastic, PA, Black</td>
</tr>
<tr>
<td>Contacts</td>
<td>Brass, CuZn, Optalloy-coated</td>
<td>Brass, CuZn, Optalloy-coated</td>
</tr>
<tr>
<td>Contact carriers</td>
<td>PA, Black</td>
<td>PA, Black</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP67</td>
<td>IP67</td>
</tr>
<tr>
<td>Current load</td>
<td>4 A</td>
<td>4 A</td>
</tr>
<tr>
<td>Terminal cross-section</td>
<td>0.14…0.75 mm²</td>
<td>0.14…0.75 mm²</td>
</tr>
<tr>
<td>Cable external diameter</td>
<td>4…6 mm</td>
<td>6…8 mm</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-40…+85 °C</td>
<td>-40…+85 °C</td>
</tr>
</tbody>
</table>

### Number of pins

<table>
<thead>
<tr>
<th>Female connector</th>
<th>Male connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-pin</td>
<td>5-pin</td>
</tr>
</tbody>
</table>

### Diagrams

- [Diagram of M12 × 1 female connector, straight](#)
- [Diagram of M12 × 1 female connector, angled](#)
- [Diagram of M12 × 1 male connector, straight](#)
### Field-Wireable Connectors

#### M12 × 1

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Rated voltage [V]</th>
<th>ID number</th>
<th>Type</th>
<th>Number of pins</th>
<th>Rated voltage</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
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<td>69010</td>
<td>BS8141-0</td>
<td>4</td>
<td>250</td>
<td>6901003</td>
<td>BS8141-0/PG9</td>
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<tr>
<td>Male connector, straight</td>
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<td></td>
<td></td>
<td>Male connector, angled</td>
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<tr>
<td>4</td>
<td>250</td>
<td>69011</td>
<td>BS8241-0</td>
<td>5</td>
<td>125</td>
<td>6904615</td>
<td>BS8251-0/9</td>
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<tr>
<td>Male connector, angled</td>
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<tr>
<td>Connection mode</td>
<td>Screw-clamp connection</td>
<td>Screw-clamp connection</td>
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<td></td>
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<td></td>
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<tr>
<td>Grip</td>
<td>Plastic, PA, Black</td>
<td>Plastic, PA, Black</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coupling nut/screw</td>
<td>Die-cast zinc, GD-Zn, Nickel-plated</td>
<td>Die-cast zinc, GD-Zn, Nickel-plated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contacts</td>
<td>Brass, CuZn, Optalloy-coated</td>
<td>Brass, CuZn, Optalloy-coated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact carriers</td>
<td>PA, Black</td>
<td>PA, Black</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection class</td>
<td>IP67</td>
<td>IP67</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current load</td>
<td>4 A</td>
<td>4 A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terminal cross-section</td>
<td>0.14…0.75 mm²</td>
<td>0.14…0.75 mm²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable external diameter</td>
<td>4…6 mm</td>
<td>6…8 mm</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Storage temperature</td>
<td>-40…+85 °C</td>
<td>-40…+85 °C</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Male connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-pin</td>
<td>![Diagram 1]</td>
</tr>
<tr>
<td>5-pin</td>
<td>![Diagram 2]</td>
</tr>
</tbody>
</table>
## 7/8" Field-Wireable Connectors M12 × 1

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Rated voltage [V]</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>250</td>
<td>6914509</td>
<td>B4141-0/13.5</td>
</tr>
<tr>
<td>5</td>
<td>600</td>
<td>6904715</td>
<td>B4151-0/13.5</td>
</tr>
</tbody>
</table>

### Female connector, straight
- **Connection mode**: Screw-clamp connection
- **Grip**: Plastic, PA, Black
- **Coupling nut/screw**: Aluminum, Al, Anodized
- **Contacts**: Brass, CuZn, Gold-plated
- **Contact carriers**: TPU, Black
- **Protection class**: IP67
- **Rated voltage**: 250
- **Terminal cross-section**: 0.14…1 mm²
- **Cable external diameter**: 10…12 mm
- **Stationary usage**: -40…+90 °C

### Male connector, straight
- **Connection mode**: Screw-clamp connection
- **Grip**: Plastic, PBT(UL 94 V0), Black
- **Coupling nut/screw**: Die-cast zinc, GD-Zn, Nickel-plated
- **Contacts**: Brass, CuZn, Gold-plated
- **Contact carriers**: PBT UL94-V0, Black
- **Protection class**: IP67
- **Rated voltage**: 600
- **Terminal cross-section**: 0.14…1.5 mm²
- **Cable external diameter**: 10…12 mm
- **Stationary usage**: -25…+85 °C

---

### Number of pins

#### Female connector
- 3-pin
  - 1
  - 2
  - 3
- 5-pin
  - 1
  - 2
  - 3
  - 4
  - 5

#### Male connector
- 3-pin
  - 1
  - 2
  - 3
- 5-pin
  - 1
  - 2
  - 3
  - 4
  - 5
Passive Junctions – Junction Box, M12 × 1

Junction Box – M12 × 1

- Housing material: Nylon (PA 6 GF)
- Housing color: black
- RoHS-compliant
- cULus listed
- Protection class IP67

**I/O Port**

<table>
<thead>
<tr>
<th>M12 × 1 I/O Port</th>
<th>M23 × 1 Male Receptacle</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-polig + PE</td>
<td>11-polig + PE</td>
</tr>
<tr>
<td>1 2</td>
<td>3 4</td>
</tr>
<tr>
<td>5 4</td>
<td>5 4</td>
</tr>
</tbody>
</table>

**I/O junction**

- Housing: Plastic, PA, black

**I/O port**

- Female connector, M12 × 1
- Thread insert: metal, CuZn, nickel-plated
- Contact carriers: PA, Black
- Contacts: Brass, CuZn, Gold-plated
- Seal: Plastic, FPM/FKM
- Mechanical lifespan: > 100 Mating cycles

**Flange connector**

- Design: Male receptacle
- Contacts: Metal, CuZn, Gold-plated
- Seal: plastic, NBR

**Technical data**

- Rated voltage: 30 V
- Ampacity: 2 A per signal contact, total current 9 A
- Forward resistance: ≤ 5 mΩ
- Insulation resistance: ≥ 10^9 Ω
- Ambient temperature: -40…+85 °C

**Diagram 1**

```
C1 ---- C4
C1 ---- C4
C1 ---- C4
C1 ---- C4
```

**Diagram 2**

```
C1 ---- C4
C1 ---- C4
C1 ---- C4
C1 ---- C4
```

**Diagram 3**

```
C1 ---- C4
C1 ---- C4
C1 ---- C4
C1 ---- C4
```

**Diagram 4**

```
C1 ---- C4
C1 ---- C4
C1 ---- C4
C1 ---- C4
```
### Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Design</th>
<th>Number of pins</th>
<th>Display switching status</th>
<th>Diagram</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="#">Diagram 1</a></td>
<td>3+PE 12</td>
<td></td>
<td>Diagram 1</td>
<td>6611900</td>
<td>TB-4M12-4-CS12T</td>
</tr>
<tr>
<td><a href="#">Diagram 2</a></td>
<td>4+PE 19</td>
<td></td>
<td>Diagram 2</td>
<td>6611901</td>
<td>TB-4M12-5-CS19T</td>
</tr>
<tr>
<td><a href="#">Diagram 3</a></td>
<td>3+PE 12</td>
<td>LED, yellow</td>
<td>Diagram 3</td>
<td>6611902</td>
<td>TB-4M12-4P2-CS12T</td>
</tr>
<tr>
<td><a href="#">Diagram 4</a></td>
<td>4+PE 19</td>
<td>LED, yellow</td>
<td>Diagram 4</td>
<td>6611903</td>
<td>TB-4M12-5P3-CS19T</td>
</tr>
<tr>
<td><a href="#">Diagram 1</a></td>
<td>3+PE 12</td>
<td>LED, yellow</td>
<td>Diagram 1</td>
<td>6611956</td>
<td>TB-4M12-4-CS12H</td>
</tr>
<tr>
<td><a href="#">Diagram 2</a></td>
<td>4+PE 19</td>
<td></td>
<td>Diagram 2</td>
<td>6611957</td>
<td>TB-4M12-5-CS19H</td>
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<tr>
<td><a href="#">Diagram 3</a></td>
<td>3+PE 12</td>
<td>LED, yellow</td>
<td>Diagram 3</td>
<td>6611958</td>
<td>TB-4M12-4P2-CS12H</td>
</tr>
<tr>
<td><a href="#">Diagram 4</a></td>
<td>4+PE 19</td>
<td>LED, yellow</td>
<td>Diagram 4</td>
<td>6611959</td>
<td>TB-4M12-5P3-CS19H</td>
</tr>
<tr>
<td><a href="#">Diagram 1</a></td>
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<td></td>
<td>Diagram 1</td>
<td>6611940</td>
<td>TB-8M12-4-CS12T</td>
</tr>
<tr>
<td><a href="#">Diagram 2</a></td>
<td>4+PE 19</td>
<td></td>
<td>Diagram 2</td>
<td>6611941</td>
<td>TB-8M12-5-CS19T</td>
</tr>
<tr>
<td><a href="#">Diagram 3</a></td>
<td>3+PE 12</td>
<td>LED, yellow</td>
<td>Diagram 3</td>
<td>6611942</td>
<td>TB-8M12-4P2-CS12T</td>
</tr>
<tr>
<td><a href="#">Diagram 4</a></td>
<td>4+PE 19</td>
<td>LED, yellow</td>
<td>Diagram 4</td>
<td>6611943</td>
<td>TB-8M12-5P3-CS19T</td>
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<tr>
<td><a href="#">Diagram 1</a></td>
<td>3+PE 12</td>
<td></td>
<td>Diagram 1</td>
<td>6611964</td>
<td>TB-8M12-4-CS12H</td>
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<tr>
<td><a href="#">Diagram 2</a></td>
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<td>Diagram 2</td>
<td>6611965</td>
<td>TB-8M12-5-CS19H</td>
</tr>
<tr>
<td><a href="#">Diagram 3</a></td>
<td>3+PE 12</td>
<td>LED, yellow</td>
<td>Diagram 3</td>
<td>6611966</td>
<td>TB-8M12-4P2-CS12H</td>
</tr>
<tr>
<td><a href="#">Diagram 4</a></td>
<td>4+PE 19</td>
<td>LED, yellow</td>
<td>Diagram 4</td>
<td>6611967</td>
<td>TB-8M12-5P3-CS19H</td>
</tr>
</tbody>
</table>
### Y-Splitter

**Grip**  
Plastic, TPU

**Contacts**  
Brass, CuZn, Gold-plated

**Contact carriers**  
Plastic, TPU, Black

**Union nut**  
Brass, CuZn, Nickel-plated

**Protection class**  
IP67 (Only when screwed tight)

**Mechanical lifespan**  
> 100 Mating cycles

**Pollution degree**  
3/2

**Current load**  
4 A

**Forward resistance**  
≤ 5 mΩ

### Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Design</th>
<th>Pin assignment</th>
<th>Graph</th>
<th>Features</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
</table>
| ![Diagram](image1.png) | M12 × 1 male - 2 × M8 × 1 female  
4/3-pin  
Rated voltage: 30 V  
Temperature range: -30 °C…+80 °C | ![Diagram](image2.png) | 6930549 | YB2-FSM4.4-2PKG3M |
| ![Diagram](image3.png) | M12 × 1 male - 2 × M8 × 1 female  
4/3-pin  
Rated voltage: 60 V  
Temperature range: -30 °C…+90 °C  
With LED (1 × green, 2 × yellow)  
Grip: plastic, TPU, black/translucent | ![Diagram](image4.png) | 6930546 | YB2-FSM4.4-2PKG3M-P7X3 |
| ![Diagram](image5.png) | M12 × 1 male - 2 × M12 × 1 female  
4/3-pin  
Rated voltage: 250 V  
Temperature range: -30 °C…+90 °C | ![Diagram](image6.png) | 6930559 | VB2-FSM4.4-2FKM4 |
| ![Diagram](image7.png) | M12 × 1 female - 2 × male M12 × 1  
4/3-pin  
Rated voltage: 250 V  
Temperature range: -30 °C…+90 °C | ![Diagram](image8.png) | 6930561 | VB2-FKM4.4-2FSM4 |
| ![Diagram](image9.png) | M12 × 1 male - 2 × M12 × 1 female  
4/3-pin  
Rated voltage: 24 V  
Temperature range: -30 °C…+90 °C  
With LED (1 × green, 2 × yellow)  
Grip: plastic, TPU, black/translucent | ![Diagram](image10.png) | 6930567 | VB2-PX3-FSM4.4-2FKM4 |
## Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Design</th>
<th>Pin assignment</th>
<th>Graph</th>
<th>Features</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>M12 × 1 male - 2 × M12 × 1 female</td>
<td>3/4-pin</td>
<td><img src="image" alt="Graph" /></td>
<td>M12 × 1 male - 2 × M12 × 1 female 3/4-pin  Rated voltage: 30 V  Temperature range: -30 °C…+80 °C</td>
<td>6930492</td>
<td>YB2-FSM5-2FKM5.4</td>
</tr>
<tr>
<td>M12 × 1 male - 2 × M12 × 1 female</td>
<td>3/4-pin</td>
<td><img src="image" alt="Graph" /></td>
<td>M12 × 1 male - 2 × M12 × 1 female 3/4-pin  Rated voltage: 60 V  Temperature range: -30 °C…+90 °C</td>
<td>6930562</td>
<td>VB2-FSM5-2FKM4.4</td>
</tr>
</tbody>
</table>
PUR Cable – Green, Type 4414

- 4-pin, 4 x 26 AWG, CAT 5E
- Qualified for drag chain use and flame-retardant
- Resistant to UV radiation and oils
- Free from halogen, silicone, PVC and LABS
- cULus approved

**Connector**

<table>
<thead>
<tr>
<th>Grip</th>
<th>Plastic, TPU, UL 94, Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contacts</td>
<td>Metal, CuZn, Gold-plated</td>
</tr>
<tr>
<td>Contact carriers</td>
<td>PA, UL 94, Black</td>
</tr>
<tr>
<td>Coupling nut/screw</td>
<td>Zinc, GD-Zn, Nickel-plated</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP67 (Only when screwed tight)</td>
</tr>
<tr>
<td>Mechanical lifespan</td>
<td>&gt; 100 Mating cycles</td>
</tr>
<tr>
<td>Pollution degree</td>
<td>3/2</td>
</tr>
<tr>
<td>Cable jacket</td>
<td>PUR, Green</td>
</tr>
<tr>
<td>Core insulation</td>
<td>PP (WHOG, WHBU, BU, OG)</td>
</tr>
<tr>
<td>Core cross-section</td>
<td>4 x 0.15 mm²</td>
</tr>
<tr>
<td>Arrangement of strands</td>
<td>19 x 0.102 mm</td>
</tr>
<tr>
<td>Shield</td>
<td>Aluminum foil, tinned copper braid</td>
</tr>
</tbody>
</table>

**Electrical properties at +20 °C**

| Current load | 3 A |
| Rated voltage | 30 V |
| Test voltage | 700 V |
| Nom. impedance | 100 (1MHz) |
| Nom. capacitance | 51 pF/m |

**Mechanical and chemical properties**

| Bending cycles | > 5 mil. |
| Bending radius (stationary laying) | > 15 x Ø |

**Ambient temperature**

- Stationary usage: -40...+80 °C
- Non-stationary usage: -25...+80 °C
Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Cable diameter [mm ± 0.20]</th>
<th>Cable length [m]</th>
<th>Core cross-section [mm²]</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4.8</td>
<td>2</td>
<td>4 x 0.15</td>
<td>6932988</td>
<td>PSGS4M-4414-2M</td>
</tr>
<tr>
<td>4</td>
<td>4.8</td>
<td>5</td>
<td>4 x 0.15</td>
<td>6935020</td>
<td>PSGS4M-4414-5M</td>
</tr>
<tr>
<td>4</td>
<td>4.8</td>
<td>10</td>
<td>4 x 0.15</td>
<td>6933305</td>
<td>PSGS4M-4414-10M</td>
</tr>
<tr>
<td>4</td>
<td>4.8</td>
<td>0.5</td>
<td>4 x 0.15</td>
<td>6932992</td>
<td>PSGS4M-PSGS4M-4414-0.5M</td>
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<tr>
<td>4</td>
<td>4.8</td>
<td>1</td>
<td>4 x 0.15</td>
<td>6932993</td>
<td>PSGS4M-PSGS4M-4414-1M</td>
</tr>
<tr>
<td>4</td>
<td>4.8</td>
<td>2</td>
<td>4 x 0.15</td>
<td>6932994</td>
<td>PSGS4M-PSGS4M-4414-2M</td>
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<tr>
<td>4</td>
<td>4.8</td>
<td>5</td>
<td>4 x 0.15</td>
<td>6932996</td>
<td>PSGS4M-PSGS4M-4414-5M</td>
</tr>
<tr>
<td>4</td>
<td>4.8</td>
<td>10</td>
<td>4 x 0.15</td>
<td>6932999</td>
<td>PSGS4M-PSGS4M-4414-10M</td>
</tr>
<tr>
<td>4</td>
<td>4.8</td>
<td>2</td>
<td>4 x 0.15</td>
<td>6933005</td>
<td>PSGS4M-RJ4SS-4414-2M</td>
</tr>
<tr>
<td>4</td>
<td>4.8</td>
<td>5</td>
<td>4 x 0.15</td>
<td>6933768</td>
<td>PSGS4M-RJ4SS-4414-5M</td>
</tr>
<tr>
<td>4</td>
<td>4.8</td>
<td>10</td>
<td>4 x 0.15</td>
<td>6934252</td>
<td>PSGS4M-RJ4SS-4414-10M</td>
</tr>
</tbody>
</table>
PUR Cable – Green, Type 4416

- 4-pin, 4 x 22 AWG, CAT 5E
- Qualified for drag chain use and robots
- Resistant to UV radiation and oils, flame-retardant
- cULus approved

**Connector**

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contacts</td>
<td>Metal, CuZn, Gold-plated</td>
</tr>
<tr>
<td>Coupling nut/screw</td>
<td>Brass, GD-Zn, Nickel-plated</td>
</tr>
<tr>
<td>Protection class</td>
<td>(Only when screwed tight)</td>
</tr>
<tr>
<td>Mechanical lifespan</td>
<td>&gt; 100 Mating cycles</td>
</tr>
<tr>
<td>Pollution degree</td>
<td>3/2</td>
</tr>
<tr>
<td>Cable jacket</td>
<td>PUR, Green</td>
</tr>
<tr>
<td>Core insulation</td>
<td>PE (WH, YE, BU, OG)</td>
</tr>
<tr>
<td>Core cross-section</td>
<td>4 x 0.32 mm²</td>
</tr>
<tr>
<td>Arrangement of strands</td>
<td>7 x 0.25 mm</td>
</tr>
<tr>
<td>Shield</td>
<td>Aluminum foil, tinned copper braid</td>
</tr>
</tbody>
</table>

**Electrical properties at +20 °C**

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>48 V</td>
</tr>
<tr>
<td>Test voltage</td>
<td>2000 V</td>
</tr>
<tr>
<td>Nom. impedance</td>
<td>100 (1 MHz)</td>
</tr>
<tr>
<td>Nom. capacitance</td>
<td>50 pF/m</td>
</tr>
</tbody>
</table>

**Mechanical and chemical properties**

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bending cycles</td>
<td>&gt; 3 mil.</td>
</tr>
<tr>
<td>Bending radius (stationary laying)</td>
<td>&gt; 5 x Ø</td>
</tr>
<tr>
<td>Bending radius (flexible use)</td>
<td>&gt; 8 x Ø</td>
</tr>
</tbody>
</table>

**Ambient temperature**

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stationary usage</td>
<td>-50...+70 °C</td>
</tr>
<tr>
<td>Non-stationary usage</td>
<td>-20...+60 °C</td>
</tr>
</tbody>
</table>
## Types and Features – Selection Table

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Cable diameter [mm ± 0.20]</th>
<th>Cable length [m]</th>
<th>Core cross-section [mm²]</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>6.5</td>
<td>2</td>
<td>4 x 0.32</td>
<td>6935289</td>
<td>RSSD-4416-2M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>5</td>
<td>4 x 0.32</td>
<td>6935290</td>
<td>RSSD-4416-5M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>10</td>
<td>4 x 0.32</td>
<td>6935291</td>
<td>RSSD-4416-10M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>2</td>
<td>4 x 0.32</td>
<td>6441652</td>
<td>RSSD-RSSD-4416-2M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>5</td>
<td>4 x 0.32</td>
<td>6441655</td>
<td>RSSD-RSSD-4416-5M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>10</td>
<td>4 x 0.32</td>
<td>6441659</td>
<td>RSSD-RSSD-4416-10M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>2</td>
<td>4 x 0.32</td>
<td>6441691</td>
<td>WSSD-RSSD-4416-2M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>5</td>
<td>4 x 0.32</td>
<td>6441692</td>
<td>WSSD-RSSD-4416-5M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>10</td>
<td>4 x 0.32</td>
<td>6441693</td>
<td>WSSD-RSSD-4416-10M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>2</td>
<td>4 x 0.32</td>
<td>6441631</td>
<td>RSSD-RJ45S-4416-2M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>5</td>
<td>4 x 0.32</td>
<td>6441633</td>
<td>RSSD-RJ45S-4416-5M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>10</td>
<td>4 x 0.32</td>
<td>6441637</td>
<td>RSSD-RJ45S-4416-10M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>2</td>
<td>4 x 0.32</td>
<td>6441604</td>
<td>RJ45S-FKSDD-4416-2M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>5</td>
<td>4 x 0.32</td>
<td>6441607</td>
<td>RJ45S-FKSDD-4416-5M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>10</td>
<td>4 x 0.32</td>
<td>6441609</td>
<td>RJ45S-FKSDD-4416-10M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>2</td>
<td>4 x 0.32</td>
<td>6441613</td>
<td>RJ45S-RJ45S-4416-2M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>5</td>
<td>4 x 0.32</td>
<td>6441616</td>
<td>RJ45S-RJ45S-4416-5M</td>
</tr>
<tr>
<td>4</td>
<td>6.5</td>
<td>10</td>
<td>4 x 0.32</td>
<td>6441619</td>
<td>RJ45S-RJ45S-4416-10M</td>
</tr>
</tbody>
</table>
# Field-Wireable Connectors – Ethernet

## M12 × 1 and RJ45

<table>
<thead>
<tr>
<th>Number of pins</th>
<th>Rated voltage [V]</th>
<th>ID number</th>
<th>Type</th>
<th>Number of pins</th>
<th>Rated voltage</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female connector, straight</td>
<td></td>
<td></td>
<td></td>
<td>Male connector, straight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RJ45 male connector, straight</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>30</td>
<td>6780031</td>
<td>6GK1901-1BB10-2AA0/FC-RJ45</td>
<td>4</td>
<td>30</td>
<td>6780031</td>
<td>6GK1901-1BB10-2AA0/FC-RJ45</td>
</tr>
</tbody>
</table>

### Connection mode
- Screw-clamp connection
- Insulation displacement connection

### Grip
- Die-cast zinc, GD-Zn, Nickel-plated
- Metal

### Coupling nut/screw
- Die-cast zinc, GD-Zn, Nickel-plated

### Contacts
- Brass, CuZn, Gold-plated

### Contact carriers
- PA, Black

### Protection class
- IP67
- IP20

### Current load
- 4 A
- 2 A

### Terminal cross-section
- 0.14…0.75 mm²
- 6…8 mm

### Cable external diameter
- 5…8 mm
- 6…8 mm

### Stationary usage
- -40…+85 °C
- -40…+80 °C

### M12 × 1 female connector
- 1 = YE (TX +)
- 2 = WH (RX +)
- 3 = OG (TX -)
- 4 = BU (RX -)

### M12 × 1 male connector
- 1 = YE (TX +)
- 2 = WH (RX +)
- 3 = OG (TX -)
- 4 = BU (RX -)

### RJ45 connector
- 1 = YE (TX +)
- 2 = OG (TX -)
- 3 = WH (RX +)
- 4 = BU (RX -)
- 5 = n.c.
- 6 = BU (RX -)
- 7 = n.c.
- 8 = n.c.
## Accessories

### Types and Features – Selection Table

<table>
<thead>
<tr>
<th>General features</th>
<th>ID number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Industrial Ethernet</td>
<td>U3-00647</td>
<td>FKSDD RJ4SSF 44</td>
</tr>
<tr>
<td>RJ45 on M12 × 1, 4-pin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permissible wall thickness: 1.5 - 3 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting thread: M16 × 1, 8-pin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D-coding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage: 42 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current load: 1.5 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature: -40 °C…+75 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection class: IP20/67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scope of delivery: Wall feed-through, seal and nut</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For Industrial Ethernet</td>
<td>6935264</td>
<td>FKSD-FKSD-44</td>
</tr>
<tr>
<td>M12 × 1 female connector to M12 × 1 female connector, 4-pin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting thread: M16 × 1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D-coding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage: 48 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current load: 4 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature: -30 °C…+85 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection class: IP67</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Wiring Diagrams

w001

w002

w003

w004

w005

w006

w007

w008
Dimension Drawings

d001

d002

d003

d004

d005

d006

d007

d008

d009

d010

d011

d012