Copper and Fiber Optics solutions for networks
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## P | Cabling

**Copper and Fiber Optics solutions for networks**

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Dear business partners,  
dear customers,

The family-owned company METZ CONNECT has stood for precision, reliability and ingenuity for more than four decades. Virtues that we put into practice every day at all of our worldwide production and distribution sites.

As pioneers in the communication between people and equipment, it goes without saying that we also pass on our experience and knowledge across generations. And grow steadily in the process!

The METZ CONNECT range is divided into three core areas and offers a wide range of solutions for the most demanding needs:

- **P|Cabling**  Copper and glass fiber components as well as automated infrastructure management for structured network cabling
- **U|Contact**  PCB connection technology for the connection of devices and controls in building and industrial automation
- **C|Logline**  Intelligent system and switch cabinet components for building and process automation.

You will encounter products from METZ CONNECT several times a day, often without seeing them: whether PCB components or connection terminals in control elements, copper and fiber optic components for network cabling or intelligent I/O components in the control cabinet for building automation. Many areas of everyday life, including complex industrial supply and production chains, require the intelligent networking of the involved devices and components. For all these application situations, METZ CONNECT offers full service, from the printed circuit board to the Internet.

As a partner of numerous international companies, we offer expertise resulting from 40 years of experience in standardised and, above all, customer-specific system solutions for a variety of applications in connection technology. We see ourselves as a problem solver and do not settle for the second-best solution. The search for perfection may seem expensive, but it is worth it.

Join us in mutual projects concerning equipment and plant construction as well as the structured cabling of buildings and industrial sites. We are looking forward to working with you!

Best regards

Jochen Metz  
Managing Partner

Christian Metz  
Managing Partner

and the entire team from METZ CONNECT.
Innovation and consistency – from the printed circuit board to the end device.

Our high-quality, user-friendly and internationally standardised components and systems are divided into three clear ranges:

P | Cabling
Copper and Fiber Optics solutions for networks

Highly specialised, internationally standardised and high-performance network solutions in copper and fiber optic technology are impressive due to their comfortable installation, maximum quality and highest system capability across all relevant performance classes. They are used in structured building and industrial cabling as well as in data centres.

Connectors  Wall outlets, distributors  patch cables, lines

The increasing demand for data transmission volumes requires the ever greater performance and consistency of the data networks. IT technologies can be found in many applications in buildings, data centres and industrial plants.

Introduction and overview P|Cabling from page 9
Connection systems for printed circuit boards

Innovative products, solutions and systems for the connection technology of printed circuit boards and devices. Products that are compatible with market standards as well as customised product solutions, including for industrial control and building automation, reflect our core competence in this area.

Terminal blocks, pin headers
Connectors
Board-to-board

Intelligent components for systems and switch cabinets

Intelligent system components for highly communicative and decentralised control in the areas of building and process control, relay technology and telecommunications

Bus modules
Interface modules
Timer-, process- and monitoring relays
<table>
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<th>Copper Solutions</th>
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<td>1 Cat.6</td>
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<td>2 Cat.6</td>
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<tr>
<td>3 Cat.6</td>
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<td>4 Cat.6</td>
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Matching accessories for GC400 SL23 Cat.6 U/UTP LSHF

Jokari dismantle tool

Principle diagram

GC400 SL23 Cat.6 U/UTP LSHF

- 1 GBit installation cable, simplex
- unshielded installation cable Cat.6 class E AWG 23 U/UTP
- 4 pairs with separator (spline)
- outer diameter 5.3 mm
- coupling attenuation not less than 40 dB
- applicable standards: EN 50173-1:2011-09; ISO/IEC 11801 Ed.2.2:2011-06; EN 50288-6-1, IEC 61156-5, EIA/TIA 568B
- cable jacket: LSHF (LSOH)
- flame-retardant to IEC 60332-1; IEC 60754-2 and IEC 61034
- fire behaviour: Class Eca (classification acc. to EN 13501-6)

Shipping Units:
- 1000 ft (305 m) in a box
- 1640 ft (500 m) on drum
- 3280 ft (1000 m) on drum

Matching accessories

P/N | Color  | Feature 1   | Feature 2
--- | --- | --- | ---
1308406032140 | blue | 305 m (1000 ft) | box
1308406032141 | blue | 500 m (1640 ft) | drum
1308406032142 | blue | 1000 m (3280 ft) | drum
**E-DAT modul coupler 180°**
- RJ45 cable coupler Cat.6 class EA
- compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- fully shielded 180° coupler made of refined zinc die-casting
- especially suitable for consolidation points and cross-connect cabling
- 2 mounting versions in a coupler; fits in module or keystone applications

Suitable applications for module design:
- module wall outlets
- module face plates
- 19 inch module frame
- surface mounted housing
- Subway
- E-DATmodul REG
- Modul REG IP20
- Industry built in flange EBM

Suitable applications for keystone design:
- keystone wall outlets
- keystone face plates
- Keystone REG IP20
- Industry built in flange EBM

**Module cut-out**

**Keystone module cut-out**

**Dimensional drawing**

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1309A0-I</td>
<td></td>
<td>8(8) coupler</td>
<td>180°</td>
</tr>
</tbody>
</table>

**E-DAT modul coupler 90°**
- RJ45 cable coupler Cat.6 class EA
- compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- fully shielded 90° coupler made of refined zinc die-casting
- especially suitable for consolidation points and cross-connect cabling
- 2 mounting versions in a coupler; fits in module or keystone applications

Suitable applications for module design:
- module wall outlets
- module face plates
- Modul REG IP20
- Industry built in flange EBM

Suitable applications for keystone design:
- keystone wall outlets
- Keystone REG IP20
- Industry built in flange EBM

**Module cut-out**

**Keystone module cut-out**

**Dimensional drawing**

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</thead>
<tbody>
<tr>
<td>1309A1-I</td>
<td></td>
<td>8(8) coupler</td>
<td>90°</td>
</tr>
</tbody>
</table>
**Cat.6 | Modules**

**UTP module Cat.6 | keystone | pearl white**
- Unshielded Cat.6 class E UTP module
- For Gigabit Ethernet
- Compliance with class E to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- Suitable for Power over Ethernet (PoE, PoE plus and UPoE)
- Easy to install connection of 2 to 4-pair data lines AWG 24/1 - 22/1 and stranded wires with 7 copper conductors AWG 26/7 to BTR 8-fold insulation displacement connectors (IDC)
- Optional strain relief with cable tie at UTP module
- Installation shape: Keystone

**UTP module Cat.6 | keystone | black**
- Unshielded Cat.6 class E UTP module
- For Gigabit Ethernet
- Compliance with class E to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- Suitable for Power over Ethernet (PoE, PoE plus and UPoE)
- Easy to install connection of 2 to 4-pair data lines AWG 24/1 - 22/1 and stranded wires with 7 copper conductors AWG 26/7 to BTR 8-fold insulation displacement connectors (IDC)
- Optional strain relief with cable tie at UTP module
- Installation shape: Keystone

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<tr>
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<th>Feature 2</th>
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<tr>
<td>130A10-I-B1</td>
<td>pearl white</td>
<td>Cat.6 T568B</td>
<td>Keystone module cut-out</td>
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</table>

<table>
<thead>
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<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>130A10-29-I-B1</td>
<td>black</td>
<td>Cat.6 T568B</td>
<td>Keystone module cut-out</td>
</tr>
</tbody>
</table>
E-DAT Industry RJ45 field plug insert
Cat.6 Class E_A

- Cat.6 class E_A plug to be assembled in the field and mounted in IP67 plug housings of variants 1, 4, 5 and 14
- compliance with class E_A to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- 8-wire RJ45 plug for AWG 22 to be assembled in the field
- connection of AWG 26/7 - 22/7; AWG 26/1 - 22/1 possible
- solid copper wire diameter from 0.4 to 0.64 mm
- stranded copper wire diameter from 0.48 to 0.76 mm
- conductor diameter up to 1.6 mm
- cable jacket from 5.5 to 8.5 mm
- consists of only 2 parts
- easy assembly - connection without special tools
- zinc die-cast housing for industrial use
- can be used as test plug at IP67 end of variants 1, 4, 5, 6 and 14
- variants: T568A, T568B, Industry

Gehäuse siehe Seite 60

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
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<tbody>
<tr>
<td>140140080810-1</td>
<td></td>
<td>8(8) field plug</td>
<td>for plugs</td>
</tr>
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</table>
Copper Solutions

Matching accessories for 19 inch Module frame 1RU aluminium unequipped for UTP Keystone

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tbody>
<tr>
<td>130A20-BK-E</td>
<td>black</td>
<td>24 Port w/o modules</td>
<td>Keystone module cut-out</td>
</tr>
<tr>
<td>130A20-00-E</td>
<td>light grey</td>
<td>24 Port w/o modules</td>
<td>Keystone module cut-out</td>
</tr>
</tbody>
</table>

19 inch Module frame 1RU aluminum unequipped for UTP Keystone
- 19 inch 1RU module frame for 24 individual modules;
- Keystone design
- module frame front made of black anodized aluminum
- plastic module support with dust protection covers (other colors available as accessory); detachable to the front
- integrated cable support with optional strain relief
- label window for enclosed identification labels
- label sheet 210 x 297 mm see accessory
- grounding bolt M6 x 10 with nut and lock washer

UTP 24 port 1RU LSA Cat.6 patch panel
- 19 inch 1RU Cat.6 patch panel with 24 RJ45 ports 8(8)
- 19 inch module frame made of black sheet steel
- 4 individual 6 port connection blocks, unshielded
- connection of the unshielded data cables to LSA insulation displacement connectors (AWG 22 to 26)
- wire connection possible according to T568A and T568B
- with 4 clip-in plastic cable brackets
- punch down patch panel

Keystone module cut-out

Dimensional drawing

P/N         | Color  | Feature 1               | Feature 2       |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>130A10-AP29-E</td>
<td>black</td>
<td>24 Port</td>
<td></td>
</tr>
</tbody>
</table>
Application neutral connection cable

- High quality ready made application neutral connection cable for structured building cabling
- Very wide range of possible combinations thanks to various copper cable types, jacks and plugs possible
- Online cable configurator can be found on our homepage http://www.metz-connect.com/en/configurator-copper-and-fiber-optique-cables

Example 1: Application neutral connection cable

141 F 4 7 00 7 00 10
Application neutral connection cable GC1000plus AWG 23/1 Cat.7 LSHF S/FTP, 1-1 (T568A), E-DAT modul, E-DAT modul, Length 1 m

Example 2: Application neutral connection cable

141 T 1 D 00 M 00 60
Application neutral connection cable PK AWG 26/7 Cat.6a LSHF S/FTP, 1-1 (T568B), C6Amodul 180°, RJ45 field plug pro, Length 6 m

Part number key for further versions

<table>
<thead>
<tr>
<th>Plug</th>
<th>Jacks</th>
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<tbody>
<tr>
<td>1 = RJ45 plug</td>
<td>7 = E-DAT modul</td>
</tr>
<tr>
<td>2 = RJ45 field plug black</td>
<td>8 = C6A modul 180°</td>
</tr>
<tr>
<td>M = RJ45 field plug pro</td>
<td>9 = C6A modul K 180°</td>
</tr>
<tr>
<td>P = RJ45 field plug pro 360°</td>
<td>B = C6A modul 270°</td>
</tr>
<tr>
<td>360°</td>
<td>D = C6A modul K 270°</td>
</tr>
<tr>
<td>0°</td>
<td>U = 25Gmodul</td>
</tr>
<tr>
<td>90°</td>
<td>V = 25Gmodul</td>
</tr>
<tr>
<td>135°</td>
<td>** Only possible in combination with GC1300 and GC1500</td>
</tr>
<tr>
<td>180°</td>
<td></td>
</tr>
<tr>
<td>225°</td>
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<tr>
<td>270°</td>
<td></td>
</tr>
<tr>
<td>315°</td>
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** Please note:**
These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned.
**MC GC500 Z2F23 Cat.6A U/UTP 4P LSHF 1640 ft**

- 10 GBit installation cable, simplex
- unshielded installation cable Cat.6, Class EA, AWG 23 U/UTP
- 4 pairs with separator (spline)
- foils wrapped diagonally with gaps as separating layers in the cable jacket
- outer cable diameter: 8.2 mm
- color of the cable jacket: blue
- coupling attenuation not less than 40 dB
- applicable standards: EN 50173-1:2011-09; ISO/IEC 11801 Ed.2.2:2011-06; EN 50288-11-1, IEC 61156-5, EIA/TIA 568-C.2
- cable jacket LSHF (LSOH)
- flame retardant to IEC 60332-1; IEC 60754-2 and IEC 61034
- fire behaviour: Class Eca (classification acc. to EN 13501-6)

**Delivery units:**
- 500 m on drum

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**GC600 F1 23 Cat.6A U/FTP 4P LSFH**

- 10 GBit installation cable, simplex
- installation cable cat. 6A AWG 23 U/FTP with wires shielded in pairs
- 4 pairs (PiMF)
- pair shield: plastic foil with aluminum coating
- outer diameter 7.0 mm
- color of the cable jacket: blue
- coupling attenuation not less than 55 dB
- applicable standards: EN 50173-1:2011-09; ISO/IEC 11801 Ed.2.2:2011-06; EN 50288-5-1, IEC 61156-5 und EIA/TIA 568B
- cable jacket: LSHF (LSOH)
- flame-retardant to IEC 60332-1; IEC 60754-2 and IEC 61034
- fire behaviour: Class Eca (classification acc. to EN 13501-6)

**Shipping Units:**
- sold by meter on drum
- 1640 ft (500 m) on drum
- 3280 ft (1000 m) on drum
UTP modul 8(8) Cat.6A
keystone pearl white
is matching accessories for
Page
Keystone 19 inch module
frame 0.5RU 24 port black
unequipped

UTP modul 8(8) Cat.6A
keystone black is matching accessories for
Page
Keystone 19 inch module
frame 0.5RU 24 port black
unequipped

UTP modul 8(8) Cat.6A, keystone pearl white
- unshielded modular termination unit Cat.6A, RJ45
- component testing for Cat.6A to ISO/IEC 11801 Ed.2.2:2011-06,
  DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC
  60603-7-41 Ed.1 (12/2008), certified by GHMT
- component testing for Cat.6A to TIA/EIA-568-C.2 and
  IEC 60512-27-100, certified by GHMT
- compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06,
  DIN EN 50173-1:2011-09, certified by GHMT
- tested: component up to 600 MHz, link up to 800 MHz
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote
  Powering (PoE, PoE plus and UPoE) and HDBaseT
- easy to install connection of 2 to 4 pair data cables AWG
  26/1 to 22/1 (solid wire) and stranded wires with 7 Cu
  strands AWG 26/7 to 22/7 (stranded wire) to insulation
  displacement connectors (IDC)
- marking of conductor assignment T568A and T568B
- easy and rapid insertion of the wire pairs into the UTP
  stuffer cap
- plastic module housing
- mounting without special tool
- strain relief possible with cable ties at the module
- mounting of colored dust protection covers to the module
  possible
- design: Keystone
- cable feed 180°
- variants: white and black

Dimensional drawing

P/N  Color  Feature 1  Feature 2
130A11KI  pearl white  180°  Keystone module cut-out

UTP modul 8(8) Cat.6A, keystone black
- unshielded modular termination unit Cat.6A, RJ45
- component testing for Cat.6A to ISO/IEC 11801 Ed.2.2:2011-06,
  DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC
  60603-7-41 Ed.1 (12/2008), certified by GHMT
- component testing for Cat.6A to TIA/EIA-568-C.2 and
  IEC 60512-27-100, certified by GHMT
- compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06,
  DIN EN 50173-1:2011-09, certified by GHMT
- tested: component up to 600 MHz, link up to 800 MHz
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote
  Powering (PoE, PoE plus and UPoE) and HDBaseT
- easy to install connection of 2 to 4 pair data cables AWG
  26/1 to 22/1 (solid wire) and stranded wires with 7 Cu
  strands AWG 26/7 to 22/7 (stranded wire) to insulation
  displacement connectors (IDC)
- marking of conductor assignment T568A and T568B
- easy and rapid insertion of the wire pairs into the UTP
  stuffer cap
- plastic module housing
- mounting without special tool
- strain relief possible with cable ties at the module
- mounting of colored dust protection covers to the module
  possible
- design: Keystone
- cable feed 180°
- variants: white and black

Dimensional drawing

P/N  Color  Feature 1  Feature 2
130A11-29KI  black  270°  Keystone module cut-out
**Cat.6A Modules**

**C6Amodul K 180°**

- modular termination unit Cat.6A, RJ45
- component testing for Cat.6A to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified to GHMT
- compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- tested: component up to 600 MHz, link up to 800 MHz
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- easy to install connection of 2 to 4 pair data cables AWG 26/1 to 22/1 (solid wire) and stranded wires with 7 copper conductors AWG 26/7 to 22/7 to insulation displacement connectors (IDC)
- marking of conductor assignment to T568A and T568B
- easy and fast insertion of wire pairs in E-DAT modul stuffer cap
- module housing made of refined zinc die-casting
- mounting without special tools
- strain relief with cable tie at the module
- mounting version: Keystone
- cable feed 180°

**Matching accessories for C6A modul K 180°**

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>130910K1</td>
<td></td>
<td>180°</td>
<td>Keystone module cut-out</td>
</tr>
</tbody>
</table>

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**E-DAT modul Cat.6A, K jack - Keystone style**

- modular termination unit Cat.6A, RJ45
- component testing for Cat.6A to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified to GHMT
- compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- tested: component up to 600 MHz, link up to 800 MHz
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- easy to install connection of 2 to 4 pair data cables AWG 26/1 to 22/1 (solid wire) and stranded wires with 7 copper conductors AWG 26/7 to 22/7 to insulation displacement connectors (IDC)
- marking of conductor assignment to T568A and T568B
- easy and fast insertion of wire pairs in E-DAT modul stuffer cap
- module housing made of refined zinc die-casting
- mounting without special tools
- strain relief with cable tie at the module
- mounting version: Keystone
- cable feed 180°

**Keystone module cut-out**

**Matching accessories for E-DAT modul Cat.6A K jack - Keystone style**

<table>
<thead>
<tr>
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<tr>
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<td>Keystone module cut-out</td>
</tr>
</tbody>
</table>

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**Dimensional drawing**

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**Copper Solutions**

**Matching accessories for E-DAT modul Cat.6A K jack - Keystone style**

<table>
<thead>
<tr>
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<tr>
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<td></td>
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**Matching accessories for C6A modul K 180°**

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<td>Keystone module cut-out</td>
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</table>

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**C6A modul K 180° is matching accessories for**

**Keystone 19 inch module frame 0.5RU 24 port black unequipped**

**Keystone module frame 3RU, 7HP 6 port stainless steel / unequipped**

---

**Dimensional drawing**

---

**Dust protection cover for C6Amodul black**
**Dust protection cover for C6Amodul pure white**
**Dust protection cover for C6Amodul light gray**
**Dust protection cover for C6Amodul yellow**
**Dust protection cover for C6Amodul blue**
**Dust protection cover for C6Amodul green**
**Dust protection cover for C6Amodul red**
**Dust protection cover for C6Amodul black**
**Dust protection cover for C6Amodul pure white**
**Dust protection cover for C6Amodul light gray**
**Dust protection cover for C6Amodul yellow**
**Dust protection cover for C6Amodul blue**
**Dust protection cover for C6Amodul green**
**Dust protection cover for C6Amodul red**
**Dust protection cover for C6Amodul yellow**
**Dust protection cover for C6Amodul blue**
**Dust protection cover for C6Amodul light gray**
**Dust protection cover for C6Amodul red**
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**Dust protection cover for C6Amodul green**
**Dust protection cover for C6Amodul red**
**Dust protection cover for C6Amodul yellow**
**Dust protection cover for C6Amodul blue**
**Dust protection cover for C6Amodul light gray**
**Dust protection cover for C6Amodul red**
**Dust protection cover for C6Amodul green**
Cat.6A Modules

C6A modul K 90° - Keystone

- modular Cat.6A termination unit RJ45
- mounting version: Keystone, 90° cable feed
- solid, one-piece and reusable module housing refined with zinc die-casting
- mounting without special tools; strain relief directly snapped on to stuffer cap
- easy to install connection of data lines AWG 26/1 to 22/1 (solid wire) and AWG 26/7 to 22/7 (stranded wire) to insulation displacement connectors (IDC)
- intelligent cable management in stuffer cap - also suitable for heavily twisted cables
- conductor assignment to T568A and T568B is directly printed on the stuffer cap
- certified to GHMT Cat.6A re-embedded PVP
- component testing for Cat.6A to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified to GHMT
- compliance with class EA up to 500 MHz to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- tested: component up to 600 MHz, link up to 800 MHz
- for 10 Gbit Ethernet (IEEE 802.3an)
- suitable for Power over Ethernet (PoE, PoE plus and UPoE)

P/N | Color | Feature 1 | Feature 2
---|---|---|---
130B23-E | 90° | Keystone module cut-out

C6A modul K 270°

- modular Cat.6A termination unit RJ45
- mounting version: Keystone, 270° cable feed
- solid, one-piece and reusable module housing refined with zinc die-casting
- easy to install connection of data lines AWG 26/1 to 22/1 (solid wire) and AWG 26/7 to 22/7 (stranded wire) to insulation displacement connectors (IDC)
- easy to install connection of data lines AWG 26/1 to 22/1 (solid wire) and AWG 26/7 to 22/7 (stranded wire) to insulation displacement connectors (IDC)
- intelligent cable management in stuffer cap - also suitable for heavily twisted cables
- conductor assignment to T568A and T568B is directly printed on the stuffer cap
- certified to GHMT Cat.6A re-embedded PVP
- component testing for Cat.6A to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified to GHMT
- compliance with class EA up to 500 MHz to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- tested: component up to 600 MHz, link up to 800 MHz
- for 10 Gbit Ethernet (IEEE 802.3an)
- suitable for Power over Ethernet (PoE, PoE plus and UPoE)

P/N | Color | Feature 1 | Feature 2
---|---|---|---
130B22-E | 270° | Keystone module cut-out

Matching accessories for C6A modul K 270°

- Dust protection cover for C6A modul black
- Dust protection cover for C6A modul pure white
- Dust protection cover for C6A modul light gray
- Dust protection cover for C6A modul yellow
- Dust protection cover for C6A modul blue
- Dust protection cover for C6A modul green
- Dust protection cover for C6A modul red

C6A modul K 270° is matching accessories for Keystone 19 inch module frame 0.5RU 24 port black unequipped

Dust protection cover for C6Amodul black

Dust protection cover for C6Amodul pure white

Dust protection cover for C6Amodul light gray

Dust protection cover for C6Amodul yellow

Dust protection cover for C6Amodul blue

Dust protection cover for C6Amodul green

Dust protection cover for C6Amodul red

Dust protection cover for C6Amodul black

Dust protection cover for C6Amodul pure white

Dust protection cover for C6Amodul light gray

Dust protection cover for C6Amodul yellow

Dust protection cover for C6Amodul blue

Dust protection cover for C6Amodul green

Dust protection cover for C6Amodul red

Dust protection cover for C6Amodul yellow

Dust protection cover for C6Amodul blue

Dust protection cover for C6Amodul green

Dust protection cover for C6Amodul red

Dust protection cover for C6Amodul light gray

Dust protection cover for C6Amodul yellow

Dust protection cover for C6Amodul blue

Dust protection cover for C6Amodul green

Dust protection cover for C6Amodul red

Dust protection cover for C6Amodul black

Dust protection cover for C6Amodul pure white

Dust protection cover for C6Amodul light gray

Dust protection cover for C6Amodul yellow

Dust protection cover for C6Amodul blue

Dust protection cover for C6Amodul green

Dust protection cover for C6Amodul red
C6A, RJ45 field plug pro

- Cat.6A class EA RJ45 plug to be assembled in the field
- Fully shielded and multi-port capable
- Straight (180°) cable feed
- Easy assembly - connection without special tools
- Wire connection: stranded wire AWG 27/7 to 22/7, wire diameter from 0.46 to 0.76 mm
- Wire connection: solid wire AWG 26/1 to 22/1, wire diameter from 0.4 to 0.64 mm
- Transmission characteristics Cat.6A per ISO/IEC 11801 Ed.2.2:2011-06
- Compliance with class EA to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- 10 GBit suitable according to IEEE 802.3an
- Suitable for Power over Ethernet (PoE, PoE plus and U PoE)
- Degree of protection IP20
- For cable jacket diameter from 5.5 to 10.5 mm
- Zinc die-cast housing for industrial use consists of only 2 parts
- Strain relief by latching clip directly on the stuffer cap
- Protected locking hook
- Reconnectable

C6A, RJ45 field plug pro 360

- Cat.6A class EA RJ45 plug to be assembled in the field
- Fully shielded and multi-port capable
- Variable (360°) cable feed, freely selectable
- Easy assembly - connection without special tools
- Wire connection: stranded wire AWG 27/7 to 22/7, wire diameter from 0.46 to 0.76 mm
- Wire connection: solid wire AWG 26/1 to 22/1, wire diameter from 0.4 to 0.64 mm
- Transmission characteristics Cat.6A per ISO/IEC 11801 Ed.2.2:2011-06
- Compliance with class EA to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- 10 GBit suitable according to IEEE 802.3an
- Suitable for Power over Ethernet (PoE, PoE plus and U PoE)
- Degree of protection IP20
- For cable jacket from 5.5 to 10.5 mm
- Zinc die-cast housing for industrial use
- Strain relief by latching clip directly on the stuffer cap
- Protected locking hook
- Reconnectable

---

### Table: P/N, Color, Feature 1, Feature 2

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>130E405032-E</td>
<td>black</td>
<td>8(8) field plug</td>
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</tr>
<tr>
<td>130E405042-E</td>
<td>black</td>
<td>8(8) field plug</td>
<td></td>
</tr>
</tbody>
</table>
### Extension box APL

- for connection of the termination point line network (APL), equipped with C6Amodul K 180°
- suitable for mounting on support rail in counter panel of general power supply below cover in room for additional applications to VDE-AR-N 4101:2011-08
- failsafe contact with integrated dust protector slide
- for connection of an MUC communication module
- certified to GHMT Cat.6, re-embedded PVP
- component testing for Cat.6, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified to GHMT
- compliance with class E_

### Extension box APL E-DAT modul keystone

- for connection of the termination point line network (APL), equipped with E-DAT modul K
- suitable for mounting on support rail in counter panel of general power supply below cover in room for additional applications to VDE-AR-N 4101:2011-08
- failsafe contact with integrated dust protector slide
- for connection of an MUC communication module
- component testing for Cat.6A to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified to GHMT
- compliance with class E_

### P/N Color Feature 1 Feature 2

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>130B21D1APL-E</td>
<td>pure white</td>
<td>AP 1 Port</td>
<td></td>
</tr>
<tr>
<td>130B21D1APLP-E</td>
<td>pure white</td>
<td>AP 1 Port</td>
<td>with patch cord</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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</thead>
<tbody>
<tr>
<td>130910D1APLKE</td>
<td>pure white</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Matching accessories for Keystone 19 inch module frame 0.5RU 24 port black unequipped

E-DAT modul Coupler 8(8) 180° Cat.6
E-DAT modul Coupler 8(8) 90° Cat.6
UTP modul 8(8) Cat.6 pearl white
UTP modul 8(8) Cat.6 black
UTP modul 8(8) Cat.6e, keystone pearl white
UTP modul 8(8) Cat.6e, keystone black
C₆modul K 180° jack - Keystone style
C₆modul K 270° jack - Keystone style
C₆modul K 90° jack - Keystone style

19 inch module frame 1RU aluminium unequipped for shielded Keystone

• 19 inch 1RU module frame for 24 individual modules; Keystone design
• module frame front made of black anodized aluminum
• plastic module support with dust protection covers (other colors available as accessories); detachable to the front
• integrated cable support with optional strain relief
• label window for identification labels
• label sheet 210 x 297 mm see accessories
• grounding bolt M6 x 10 with nut and lock washer
• incl. 30 cm grounding cable
• all fully shielded modules connected by means of grounding rail

Keystone 19 inch module frame 0.5RU 24 port black unequipped

• 19 inch module frame 0.5RU 24 port unequipped, black
• for 24 individual modules in Keystone design
• additional strain relief on patch panel possible by cable ties, cable ties included in delivery
• suitable modules: E-DAT modul K, UTP modul Cat.6e, UTP modul Cat.6, UTP modul Cat.5e
• design: Keystone

Keystone module cut-out

Dimensional drawing

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>130925-BKKE</td>
<td>black</td>
<td>24 port unequipped</td>
<td>Keystone module cut-out</td>
</tr>
<tr>
<td>130920-BKKE</td>
<td>black</td>
<td>24 port unequipped</td>
<td>Keystone module cut-out</td>
</tr>
<tr>
<td>130920-00KE</td>
<td>grey</td>
<td>24 port unequipped</td>
<td>Keystone module cut-out</td>
</tr>
</tbody>
</table>
Keystone module frame 1RU, 24 port black unequipped
- Keystone 19 inch module frame 1RU 24 port unequipped, shielded
- for 24 individual modules, Keystone design
- module frame front made of powder-coated steel
- module supports made of galvanized sheet steel
- additional strain relief possible on module support by cable ties
- grounding screw with lock washer
- incl. 40 cm grounding cable
- all fully shielded modules are interconnected through the module support
- variants: black or gray

Keystone module cut-out

P/N | Color | Feature 1 | Feature 2
---|---|---|---
130926-0029KE | black | 24 port unequipped | Keystone module cut-out

Keystone module frame 1RU, 24 port angled black unequipped
- Keystone 19 inch module frame 1RU 24 port unequipped, shielded
- for 24 individual modules, Keystone design
- module frame front made of powder-coated steel
- angled port openings, ports 1 to 12 angled by about 30° to the right, ports 13 to 24 angled by about 30° to the left
- module support made of galvanized sheet steel
- additional strain relief possible by cable ties on module support
- grounding screw with lock washer
- 40 cm grounding cable included
- all fully shielded modules are interconnected through the module support
- variants: black or gray

Keystone module cut-out

P/N | Color | Feature 1 | Feature 2
---|---|---|---
130926A0029KE | black | 24 port unequipped | Keystone module cut-out
Trunk- and consolidation point link cable

- High quality assembled CP link / trunk cable
- Various copper cable types possible
- Umwicking of up to 12 cables with grading fanout of the modules/connectors ready for assembly
- Very wide range of possible combinations through different jacks and plugs possible

**Example 1:**
CP link / trunk cable

```
141 F B 7 50 7 30 A0
```

CP link / trunk cable GC1000plus AWG 23/1, Cat.7 LSHF S/FTP, 2-fold, 2 x E-DAT modul 50 cm, 2 x E-DAT modul 30 cm, Length 10 m

**Example 2:**
CP link cable

```
141 L D 8 70 8 50 A5
```

CP link / trunk cable GC1500pro AWG 21/1, Cat.7 A LSHF-FR S/FTP, 6-fold, 6 x C6Amodul 70 cm, 6 x C6Amodul 50 cm, Length 15 m

**Part number key for further versions**

- **D** = GC600 AWG 23/1 Cat.6A LSHF U/FTP
- **F** = GC1000 plus AWG 23/1 Cat.7 LSHF S/FTP
- **G** = GC1000 plus 2xAWG 23/1 Cat.7 LSHF S/FTP
- **H** = GC1300 pro AWG 22/1 Cat.7A LSHF-FR S/FTP
- **M** = GC1300 pro 2xAWG 22/1 Cat.7A LSHF-FR S/FTP
- **L** = GC1500 pro AWG 22/1 Cat.7A LSHF-FR S/FTP
- **T** = PK AWG 26/7 Cat.6A LSHF S/FTP

**Plug**

- 1 = RJ45 plug
- 2 = RJ45 field plug black
- M = RJ45 field plug pro

**Jacks**

- 7 = E-DAT modul
- K = E-DAT modul K
- 8 = C6Amodul 180°
- 9 = C6Amodul K 180°
- U = 25Gmodul
- V = 25Gmodul K

**Number of cables**

- A = 1-fold
- B = 2-fold
- C = 4-fold
- D = 6-fold
- E = 8-fold
- F = 12-fold

**Fanout length**

- 30 = Fanout 30 cm
- 50 = Fanout 50 cm
- 70 = Fanout 70 cm
- A0 = Fanout 100 cm
- E0 = Fanout 150 cm

**Fanout length + Fanout grading**

- 3X = Fanout 30 cm, modules graded by Fanout
- 5X = Fanout 50 cm, modules graded by Fanout
- 7X = Fanout 70 cm, modules graded by Fanout
- AX = Fanout 100 cm, modules graded by Fanout
- EX = Fanout 150 cm, modules graded by Fanout

Please note:

- These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned.


**Fanout page A**

**Fanout page B**

**Cable type**

**Cable side A**

**Cable side B**

**Length**

**Number of cables**

- A = 1-fold
- B = 2-fold
- C = 4-fold
- D = 6-fold
- E = 8-fold
- F = 12-fold

**Fanout length**

- 30 = Fanout 30 cm
- 50 = Fanout 50 cm
- 70 = Fanout 70 cm
- A0 = Fanout 100 cm
- E0 = Fanout 150 cm

**Fanout length + Fanout grading**

- 3X = Fanout 30 cm, modules graded by Fanout
- 5X = Fanout 50 cm, modules graded by Fanout
- 7X = Fanout 70 cm, modules graded by Fanout
- AX = Fanout 100 cm, modules graded by Fanout
- EX = Fanout 150 cm, modules graded by Fanout

**Please note:**

- These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned.

**Cable type**

**Cable side A**

**Cable side B**

**Length**

**Number of cables**

- A = 1-fold
- B = 2-fold
- C = 4-fold
- D = 6-fold
- E = 8-fold
- F = 12-fold

**Fanout length**

- 30 = Fanout 30 cm
- 50 = Fanout 50 cm
- 70 = Fanout 70 cm
- A0 = Fanout 100 cm
- E0 = Fanout 150 cm

**Fanout length + Fanout grading**

- 3X = Fanout 30 cm, modules graded by Fanout
- 5X = Fanout 50 cm, modules graded by Fanout
- 7X = Fanout 70 cm, modules graded by Fanout
- AX = Fanout 100 cm, modules graded by Fanout
- EX = Fanout 150 cm, modules graded by Fanout

**Please note:**

- These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned.


**Fanout page A**

**Fanout page B**

**Cable type**

**Cable side A**

**Cable side B**

**Length**

**Number of cables**

- A = 1-fold
- B = 2-fold
- C = 4-fold
- D = 6-fold
- E = 8-fold
- F = 12-fold

**Fanout length**

- 30 = Fanout 30 cm
- 50 = Fanout 50 cm
- 70 = Fanout 70 cm
- A0 = Fanout 100 cm
- E0 = Fanout 150 cm

**Fanout length + Fanout grading**

- 3X = Fanout 30 cm, modules graded by Fanout
- 5X = Fanout 50 cm, modules graded by Fanout
- 7X = Fanout 70 cm, modules graded by Fanout
- AX = Fanout 100 cm, modules graded by Fanout
- EX = Fanout 150 cm, modules graded by Fanout

**Please note:**

- These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned.
Cat.6A | Panels

Matching accessories for Module frame 6 port 3RU 7HP unequipped for Keystone

- E-DAT modul Coupler 8(8) 180°
  - Cat.6 11
- C6_modul K 180° jack
  - Keystone style 18

Module frame 6 port 3RU 7HP unequipped for Keystone is matching accessories for

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
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<tbody>
<tr>
<td>130A21-00-E</td>
<td>stainless steel</td>
<td>24 port unequipped</td>
<td>Keystone module cut-out</td>
</tr>
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</tbody>
</table>

19 inch module frame 1RU stainless steel unequipped for Keystone

- 19 inch 1RU stainless steel module frame for 24 individual modules; Keystone design
- optional strain relief on patch panel using cable ties
- grounding bolt M6 x 10 with nut and lock washer
- incl. 30 cm grounding cable
- all fully shielded Keystone modules are connected by means of the stainless steel module frame

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tbody>
<tr>
<td>130B20E2E-E</td>
<td>stainless steel</td>
<td>6 port empty</td>
<td>Keystone module cut-out</td>
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<tr>
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</tr>
</tbody>
</table>
Patch cords

- especially suitable for shielded and unshielded class E_6_A systems
- fully shielded Cat. 6_A patch cable AWG 26/7
- two shielded RJ45 connectors; 1:1 assignment
- cable type: S/FTP 4x2xAWG 26/7 PIMF
- cable sheath: LSHF(LSOH), halogen free
- Cat. 6_A to ISO/IEC 11801 Ed.2.2 (2011-06) and IEC 61935-2 Ed. 3.0 (2010-07), certified to GHMT
- class E_6_A Link up to 500 MHz to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 GBit Ethernet (IEEE 802.3an) and Remote Powering (PoE, PoE plus and UPoE) and HDBaseT

- snagless boot with integrated lever protection
- colors may differ slightly due to different protection lots
- standard length: 0.5; 1; 1.5; 2; 3; 4; 5; 6; 7; 8; 10; 15 and 20 m
- special lengths available on demand

Example

130845 05 77 -E

Part number key for further versions

<table>
<thead>
<tr>
<th>Length</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>05 = 0.5 m</td>
<td>00 = black</td>
</tr>
<tr>
<td>10 = 1.0 m</td>
<td>33 = grey</td>
</tr>
<tr>
<td>15 = 1.5 m</td>
<td>44 = blue</td>
</tr>
<tr>
<td>20 = 2.0 m</td>
<td>55 = green</td>
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<tr>
<td>30 = 3.0 m</td>
<td>66 = red</td>
</tr>
<tr>
<td>50 = 5.0 m</td>
<td>77 = yellow</td>
</tr>
<tr>
<td>70 = 7.0 m</td>
<td>88 = white</td>
</tr>
<tr>
<td>80 = 8.0 m</td>
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<tr>
<td>B5 = 25.0 m</td>
<td></td>
</tr>
<tr>
<td>C0 = 30.0 m</td>
<td></td>
</tr>
</tbody>
</table>
GC1000 pro23 Cat.7 S/FTP 4P LSHF-FR

- 10 GBit installation cable, simplex
- Installation cable Cat.7 AWG 23 S/FTP with wires shielded in pairs
- 4 pairs (PiMF)
- Pair shield: plastic foil with aluminum coating
- Overall shield: tinned copper braid
- Outer diameter: 7.5 mm
- Color of the cable jacket: blue
- Coupling attenuation: 85 dB
- Applicable standards: EN 50173-1:2011-09; ISO/IEC 11801 Ed.2.2:2011-06; EN 50288-4-1 and IEC 61156-5
- Cable jacket: LSHF-FR (LSOH-FR)
- Flame-retardant to IEC 60332-1; IEC 60332-3-24; IEC 60754-2 and IEC 61034
- Fire behaviour: Class Dca s2 d1 a1 acc. to EN 50399 (classification acc. to EN 13501-6)

Shipping Units:
- Sold by meter on drum
- 1640 ft (500 m) on drum
- 3280 ft (1000 m) on drum

GC1000 plus23 Cat.7 S/FTP 4P LSHF

- 10 GBit installation cable, simplex
- Installation cable Cat.7 AWG 23 S/FTP with wires shielded in pairs
- 4 pairs (PiMF)
- Pair shield: plastic foil with aluminum coating
- Overall shield: tinned copper braid
- Outer diameter: 7.3 mm
- Color of the cable jacket: blue
- Coupling attenuation: 75 dB
- Applicable standards: EN 50173-1:2011-09; ISO/IEC 11801 Ed.2.2:2011-06; EN 50288-4-1 and IEC 61156-5
- Cable jacket: LSHF (LSOH)
- Flame-retardant to IEC 60332-1; IEC 60754-2 and IEC 61034
- Fire behaviour: Class Eca (classification acc. to EN 13501-6)

Shipping Units:
- Sold by meter on drum
- 1640 ft (500 m) on drum
- 3280 ft (1000 m) on drum

P/N | Color | Feature 1 | Feature 2
---|---|---|---
1308427034141 | blue | 500 m (1640 ft) | drum
1308427034142 | blue | 1000 m (3280 ft) | drum
1308427032141 | blue | 500 m (1640 ft) | drum
1308427032142 | blue | 1000 m (3280 ft) | drum
MC GC1300 pro22 Cat.7A S/FTP 4P LSHF-FR
- 25 GBit / 10 GBit installation cable, simplex
- paired shielded installation cable Cat.7A AWG 22 S/FTP
- 4 pairs (PiMF)
- pair shield: plastic foil, aluminium coated
- overall shield: tinned copper braid
- outer diameter 7.5 mm
- cable jacket: LSHF-FR (LSOH-FR)
- flame-retardant to IEC 60332-1; IEC 60332-3-24; IEC 60754-2 and IEC 61034
- fire behavior: Class Dca s2 d1 a1 acc. to EN 50399 (classification acc. to EN 13501-6)

Shipping Units:
- sold by meter on drum
- 500 m on drum
- 1000 m on drum

<table>
<thead>
<tr>
<th>Art.-Nr.</th>
<th>Farbe</th>
<th>Merkmal 1</th>
<th>Merkmal 2</th>
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<tbody>
<tr>
<td>1308427B34141</td>
<td>blau</td>
<td>500 m</td>
<td>simplex</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1640 ft)</td>
<td></td>
</tr>
<tr>
<td>1308427B34142</td>
<td>blau</td>
<td>1000 m</td>
<td>simplex</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(3280 ft)</td>
<td></td>
</tr>
</tbody>
</table>

Principle diagram

GC1500 pro22 Cat.7A S/FTP 4P LSHF-FR
- 10 GBit installation cable, simplex
- installation cable Cat.7A AWG 22 S/FTP with wires shielded in pairs
- 4 pairs (PiMF)
- pair shield: plastic foil with aluminium coating
- overall shield: tinned copper braid
- outer diameter 8.5 mm
- color of the cable jacket: blue
- coupling attenuation not less than 85 dB
- applicable standards: EN 50173-1:2011-09; ISO/IEC 11801 Ed.2.2:2011-06; EN50288-9-1; IEC61156-5 and IEC61156-7
- cable jacket: LSHF-FR (LSOH-FR)
- flame retardant to IEC 60332-1; IEC 60332-3-24; IEC 60754-2 and IEC 61034
- fire behavior: Class Dca s2 d1 a1 acc. to EN 50399 (classification acc. to EN 13501-6)

Shipping Units:
- sold by meter on drum
- 3280 ft (1000 m) on drum

<table>
<thead>
<tr>
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<th>Feature 1</th>
<th>Feature 2</th>
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</thead>
<tbody>
<tr>
<td>1308427A34142</td>
<td>blue</td>
<td>1000 m</td>
<td>drum</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(3280 ft)</td>
<td></td>
</tr>
</tbody>
</table>

Prinzipbild
Keystone wall outlet EU style
- flush-mounted termination unit for two individual Keystone modules
- EU style 86 x 86mm
- straight plug direction
- strain relief with cable tie at the module
- label window for identification labels (labels included in the delivery)
- integrated dust protection shutter
- cover parts in color similar to pure white RAL 9010, glossy surface

Keystone module cut-out

Keystone wall outlet EU style
- flush-mounted termination unit for two individual Keystone modules
- EU style 86 x 86mm
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Keystone module cut-out

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<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1309142502KE</td>
<td>white</td>
<td>1 Port w/o modules</td>
<td>Keystone module cut-out</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1309152502KE</td>
<td>white</td>
<td>2 Port empty</td>
<td>Keystone module cut-out</td>
</tr>
</tbody>
</table>
Keystone surface mount housing 24 port pure white
- surface-mounted, unequipped module housing for individual modules, Keystone design
- solid steel sheet housing
- upper part of the housing powder-coated in RAL 9010
- upper part of the housing can be put on and removed easily because no screws are used for fastening
- equipotential bonding possible by means of contact pin
- additional strain relief on lower part of housing using cable ties
- suitable for direct wall mounting, as desktop device and for DIN-rail mounting using the DIN rail adapter mini FS
- bottom of the 3-port and 4-port housing can be removed: Additional fastening by means of 60 mm fastening clearance
- optionally available and fits in all housings: FO extension set for module and keystone surface mount housing: 130861-MSK-E
- optionally available 2 x 12 housing: Strain relief for patch cords 130861-24ZE-E
- variants: 3, 4, 6, 8, 12, 16 and 2 x 12 ports

Keystone module cut-out

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tbody>
<tr>
<td>130861-0302KE</td>
<td>pure white</td>
<td>3 Port</td>
<td>for Keystone</td>
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<tr>
<td>130861-0402KE</td>
<td>pure white</td>
<td>4 Port</td>
<td>for Keystone</td>
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<tr>
<td>130861-0602KE</td>
<td>pure white</td>
<td>6 Port</td>
<td>for Keystone</td>
</tr>
<tr>
<td>130861-0802KE</td>
<td>pure white</td>
<td>8 Port</td>
<td>for Keystone</td>
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<tr>
<td>130861-1202KE</td>
<td>pure white</td>
<td>12 Port</td>
<td>for Keystone</td>
</tr>
<tr>
<td>130861-1602KE</td>
<td>pure white</td>
<td>16 Port</td>
<td>for Keystone</td>
</tr>
<tr>
<td>130861-2402KE</td>
<td>pure white</td>
<td>24 Port</td>
<td>for Keystone</td>
</tr>
</tbody>
</table>

Keystone wall outlet AP | surface mounting
- very compact 1-port surface-mounted termination unit for one individual Keystone module
- module plug direction 90° downwards
- strain relief with cable tie at the module
- label window for identification labels (labels included in the delivery)
- integrated dust protection shutter
- cover parts in color similar to pure white RAL 9010, glossy surface
- not suitable for 180° couplers (anti-bend sleeves for patch cables usually too long)
- variants: 1 port, 2 ports

Keystone module cut-out

<table>
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<tr>
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<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1309140002KE</td>
<td>white</td>
<td>1 Port w/o modules</td>
<td>Keystone module cut-out</td>
</tr>
<tr>
<td>1309150002KE</td>
<td>pure white</td>
<td>1 Port empty</td>
<td>Keystone module cut-out</td>
</tr>
</tbody>
</table>
**Keystone wall outlet 6/12 port surface mounting**

- very compact 6/12-port surface-mounted termination unit for six/twelve individual Keystone modules
- module plug direction 90° downwards
- strain relief with cable tie at the module
- cover parts in color similar to pure white RAL 9010, glossy surface
- with shielded modules suitable for 6 modules

**Keystone module cut-out**

**Dimensional drawing**

<table>
<thead>
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<th>P/N</th>
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<th>Feature 2</th>
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</thead>
<tbody>
<tr>
<td>1309190002KE</td>
<td>white</td>
<td>6 Port w/o modules</td>
<td>Keystone module cut-out</td>
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</tbody>
</table>
Frame for LJ6C
- flush mount frame 86 x 86mm
- to mount terminal units with 25 x 38 mm (LJ6C style)
- color of the cover parts similar to pure white RAL 9010, glossy surface
- attention: not compatible to „design“ central units of leading switch lines
- variants: 1 port, 2 ports

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>130B20F1LJ6C-E</td>
<td>pure white</td>
<td>1 port, unequipped</td>
<td>LJ6C</td>
</tr>
<tr>
<td>130B20F2LJ6C-E</td>
<td>pure white</td>
<td>2 port, unequipped</td>
<td>LJ6C</td>
</tr>
</tbody>
</table>
Matching accessories for Keystone termination unit LJ6C unequipped

- Frame 86 x 86 mm for 1 x LJ6C unequipped white
- Frame 86 x 86 mm for 2 x LJ6C unequipped white

Blind cover for LJ6C is matching accessories for

- Frame 86 x 86 mm for 1 x LJ6C unequipped white
- Frame 86 x 86 mm for 2 x LJ6C unequipped white

Keystone termination unit LJ6C unequipped

- 1 port termination unit 25 x 38 mm (LJ6C format) for one individual Keystone module
- Module plug direction approx. 45° downwards
- Strain relief with cable tie at the module
- Label window for identification label (labels included in the delivery)
- Integrated dust protection shutter
- Cover parts in color similar to pure white RAL 9010, glossy surface

P/N | Color | Feature 1 | Feature 2
---|---|---|---
130B2001LJ6C-E | pure white angled | LJ6C

Blind cover for LJ6C

- Blind cover 1 piece 25 x 38 mm (LJ6C format)
- Color similar to pure white RAL 9010, glossy surface

P/N | Color | Feature 1 | Feature 2
---|---|---|---
130B20B1LJ6C-E | pure white | Blind cover | LJ6C
Matching accessories for Frame for 50 mm, pure white
2 x 12.5 x 50 mm Blind cover 36
25 x 50 mm Blind cover 36

Frame for 50 mm, pure white

Frame for 50 mm, pure white is matching accessories for

Keystone termination unit 1
to mount 25 x 50 mm unequalled 35

Frame for 50 mm, pure white
- flush mount frame with a height of 86 mm
- to mount terminal units with 25 x 50 mm
- color of the cover parts similar to pure white RAL 9010, glossy surface
- attention: not compatible to „design“ central units of leading switch lines
- variants: 2 ports (width 86 mm), 4 ports (width 146 mm)

Frame for 50 mm, chrome
- flush mount frame with a height of 86 mm
- to mount terminal units with 25 x 50 mm
- color of the cover parts chrome, high glossy surface
- attention: not compatible to „design“ central units of leading switch lines
- variants: 2 ports (width 86 mm), 4 ports (width 146 mm)

Dimensional drawing

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>130B20F125-E</td>
<td>pure white</td>
<td>2 port</td>
<td>25 x 50 mm</td>
</tr>
<tr>
<td>130B20F225-E</td>
<td>pure white</td>
<td>4 port</td>
<td>25 x 50 mm</td>
</tr>
<tr>
<td>130B20F125CE</td>
<td>chrome</td>
<td>2 port</td>
<td>25 x 50 mm</td>
</tr>
<tr>
<td>130B20F225CE</td>
<td>chrome</td>
<td>4 port</td>
<td>25 x 50 mm</td>
</tr>
</tbody>
</table>
### Keystone termination unit 25 x 50 mm unequipped

- 1 port termination unit 25 x 50 mm for one individual Keystone module
- plug direction angled
- strain relief with cable tie at the module
- label window for identification label (labels included in the delivery)
- integrated dust protection shutter
- cover parts in color similar to pure white RAL 9010, glossy surface

- variant: plug direction straight

### Accessories

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>130B20A125-E</td>
<td>pure white</td>
<td>angled</td>
<td>Keystone module cut-out</td>
<td>34</td>
</tr>
</tbody>
</table>

### Matching accessories for Keystone termination unit 25 x 50 mm unequipped

- Frame 86 x 86 mm for 2 x 25 x 50 mm white
- Frame 146 x 86 mm for 4 x 25 x 50 mm white

### Frame 86 x 86 mm for 2 x 25 x 50 mm white

<table>
<thead>
<tr>
<th>Frame Width</th>
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<tbody>
<tr>
<td>86 x 86 mm</td>
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<td>34</td>
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</tbody>
</table>

### Frame 146 x 86 mm for 4 x 25 x 50 mm white

<table>
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<tbody>
<tr>
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### Frame 86 x 86 mm for 2 x 25 x 50 mm white

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### Frame 146 x 86 mm for 4 x 25 x 50 mm white

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### Frame 86 x 86 mm for 2 x 25 x 50 mm white

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### Frame 146 x 86 mm for 4 x 25 x 50 mm white

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### Frame 86 x 86 mm for 2 x 25 x 50 mm white

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<tr>
<td>86 x 86 mm</td>
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</table>

### Frame 146 x 86 mm for 4 x 25 x 50 mm white

<table>
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<tr>
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</table>

### Frame 86 x 86 mm for 2 x 25 x 50 mm white

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</thead>
<tbody>
<tr>
<td>86 x 86 mm</td>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>

### Frame 146 x 86 mm for 4 x 25 x 50 mm white

<table>
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</thead>
<tbody>
<tr>
<td>146 x 86 mm</td>
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<td>34</td>
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</tbody>
</table>

### Frame 86 x 86 mm for 2 x 25 x 50 mm white

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</thead>
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<tr>
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<td>34</td>
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</tbody>
</table>

### Frame 146 x 86 mm for 4 x 25 x 50 mm white

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</tr>
</thead>
<tbody>
<tr>
<td>146 x 86 mm</td>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>

### Frame 86 x 86 mm for 2 x 25 x 50 mm white

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</tr>
</thead>
<tbody>
<tr>
<td>86 x 86 mm</td>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>

### Frame 146 x 86 mm for 4 x 25 x 50 mm white

<table>
<thead>
<tr>
<th>Frame Width</th>
<th>Frame Height</th>
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</tr>
</thead>
<tbody>
<tr>
<td>146 x 86 mm</td>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>
Blind cover for 50 mm
- blind cover 50 mm frame
- color similar to pure white RAL 9010, glossy surface
- variant: 2 x 12.5 x 50 mm

P/N Color Feature 1 Feature 2
130B20B0525-E pure white Blind cover 2 x 12 x 50 mm

Blind cover for 50 mm
- blind cover 50 mm frame
- color similar to pure white RAL 9010, glossy surface
- variant: 1 x 25 x 50 mm

P/N Color Feature 1 Feature 2
130B20B125-E pure white Blind cover 25 x 50 mm
**Accessories | Cat.6A**

### Cable manager 19 inch 0.5RU 56 mm
**RAL 9005 black**
- 19 inch 0.5RU distribution panel for horizontal organization of the patch cables
- Cable brackets approx. 42 mm
- 5 open cable brackets
- Steel powder-coated, black RAL9005

<table>
<thead>
<tr>
<th>P/N</th>
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<th>Feature 1</th>
<th>Feature 2</th>
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<tbody>
<tr>
<td>130894-05-29-E</td>
<td>black</td>
<td>56 mm</td>
<td></td>
</tr>
</tbody>
</table>

### Cable manager 19 inch 1RU 75 mm
**RAL 9005 black**
- 19 inch 1 RU distribution panel for horizontal organization of the patch cables
- Cable brackets approx. 75 mm
- 5 cable brackets
- Steel powder-coated
- Variants: black or gray

<table>
<thead>
<tr>
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<th>Feature 1</th>
<th>Feature 2</th>
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<tr>
<td>130894-03-29-E</td>
<td>black</td>
<td>75 mm</td>
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</tr>
</tbody>
</table>
### Matching accessories for Cable manager 1RU 56 mm and 100 mm

- **Label strip for cable manager 19 inch 1RU RAL 9005**
  - Page 38

### Label strip for cable manager 1RU is matching accessories for

- **Cable manager 19 inch 1RU**
  - 56 mm RAL 9005 black
  - 38
  - 100 mm RAL 9005 black
  - 38

### Cable manager 1RU 56 mm and 100 mm

- 19 inch 1RU distribution panel for horizontal organization of the patch cables
- 56 and 100 mm cable bracket
- Especially suitable for fiber optic patch cables
- 5 black plastic cable brackets with large contact surfaces
- Easy mounting of the cable brackets by twisting
- Available as option: plug-mounted nomenclature strip

- Variants: steel powder-coated grey or black, aluminum silver anodized, stainless steel

### Dimensional drawing (56 mm)

![Dimensional drawing (56 mm)](image)

### Dimensional drawing (100 mm)

![Dimensional drawing (100 mm)](image)

### Dimensional drawing

![Dimensional drawing](image)

### Label strip for cable manager 1RU

- Black clip-on label strip for 19 inch 1RU distribution panel
- For large labeling
- Included in the delivery: label strip, 2 fastening clips, paper strips and transparent foil

### P/N | Color | Feature 1 | Feature 2
---|---|---|---
130894-01-29-E | black | 56 mm |
130894-02-29-E | black | 100 mm |
130894-01-03-E | grey | 56 mm |
130894-02-03-E | grey | 100 mm |
130894-BS-29-E | black | slip-on |
**Industry color coding field plug**
- colored, easy to actuate strain relief for E-DAT Industry IP20 RJ45 field plug
- can be mounted after assembling the plug
- variants: white, light gray, orange, blue, yellow, green

**IP20 plug bend protection**
- molded snagless anti-bend sleeve for E-DAT Industry IP20 RJ45 plug
- trumpet-shaped bending protection of the connection cable
- retrofitting possible
- effective grip contours
- variants: white, light gray, blue, yellow, green, black, orange

**Accessories**

<table>
<thead>
<tr>
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<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tr>
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<td>1401009105-I</td>
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<tr>
<td>1401009106-I</td>
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<td>white</td>
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<td>1401008205-E</td>
<td>yellow</td>
<td>plastics</td>
<td></td>
</tr>
<tr>
<td>1401008206-E</td>
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<tr>
<td>1401008207-E</td>
<td>green</td>
<td>plastics</td>
<td></td>
</tr>
</tbody>
</table>
### Protection covers C6A modul
- optional dust cover for individual C6A modul modules in Modul and Keystone design
- suitable for modules mounted in applications without separate dust protection devices
- variants: black, pure white, light gray, yellow, blue, green, red

### Dust protection plug RJ45
- manually released locking to close unoccupied RJ45 jacks and protect them from dust
- with grip

### Accessories | Cat.6A Dust protection

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
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<tbody>
<tr>
<td>820032-0129-I</td>
<td>black</td>
<td>1 port</td>
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<tr>
<td>820032-0102-I</td>
<td>pure white</td>
<td>1 port</td>
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<tr>
<td>820032-0103-I</td>
<td>light gray</td>
<td>1 port</td>
<td></td>
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<tr>
<td>820032-0105-I</td>
<td>yellow</td>
<td>1 port</td>
<td></td>
</tr>
<tr>
<td>820032-0106-I</td>
<td>blue</td>
<td>1 port</td>
<td></td>
</tr>
<tr>
<td>820032-0107-I</td>
<td>green</td>
<td>1 port</td>
<td></td>
</tr>
<tr>
<td>820032-0108-I</td>
<td>red</td>
<td>1 port</td>
<td></td>
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<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
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<th>Feature 2</th>
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</thead>
<tbody>
<tr>
<td>816719-01-2-I</td>
<td>black</td>
<td>RJ45</td>
<td></td>
</tr>
</tbody>
</table>
**Dust protection covers for wall outlets**
- for color service coding of wall outlets
- suitable for wall outlets: C6,modul, E-DAT C6,
  E-DAT modul, E-DAT C6 wall outlets and E-DAT design
- variants: yellow, blue, green, red

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>820394-0105-I</td>
<td>yellow</td>
<td>1 port</td>
<td></td>
</tr>
<tr>
<td>820394-0106-I</td>
<td>blue</td>
<td>1 port</td>
<td></td>
</tr>
<tr>
<td>820394-0107-I</td>
<td>green</td>
<td>1 port</td>
<td></td>
</tr>
<tr>
<td>820394-0108-I</td>
<td>red</td>
<td>1 port</td>
<td></td>
</tr>
</tbody>
</table>

**Dust protection covers for Modul patch panels / subway / REG**
- for color service coding of patch fields, subway underfloor units and E-DAT modul REG
- suitable for: C6,modul patch fields, E-DAT modul patch field 24x8, subway underfloor units, module wall outlet 2 port APFL as well as E-DAT modul REG and Modul REGplus
- variants: yellow, blue, green, red

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tbody>
<tr>
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<td>yellow</td>
<td>1 port</td>
<td></td>
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<tr>
<td>816979-0106-I</td>
<td>blue</td>
<td>1 port</td>
<td></td>
</tr>
<tr>
<td>816979-0107-I</td>
<td>green</td>
<td>1 port</td>
<td></td>
</tr>
<tr>
<td>816979-0108-I</td>
<td>red</td>
<td>1 port</td>
<td></td>
</tr>
</tbody>
</table>
Cable connector class FA
- cable connector for field assembly Class FA for 8 wire cables
- to connect / extend / repair / relocate copper data cables up to Cat.7
- compliance to Class FA up to 1000 MHz according to ISO/IEC 11801 Ed.2.2:2011-06 in connection with Cat.7 copper cables *1
- GHMT certified to ISO/IEC 11801 Ed.2.2:2011-06 and IEC 61156-5 Ed.2.1:2012-12
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- compact design: diameter 16.8 mm x length 64 mm
- IP67 protected housing in combination with IP67 appropriate cables *2
- refined zinc die-cast housing
- easy and fast assembly without special tools
- shield connection and strain relief integrated
- easy connection of data cables AWG 26/1 to 22/1 (solid wire) and AWG 26/7 to 22/7 (stranded wire) to insulation displacement connectors (IDC)
- solid copper wire diameter 0.4 to 0.64 mm
- stranded copper wire diameter 0.48 to 0.76 mm
- conductor diameter up to 1.6 mm
- suitable for cables with an overall diameter of 5.0 to 9.7 mm *2
- fully shielded version according to DIN EN 50173-1

Cat.7 cable connector
- for connecting/extending data cables up to Cat.7a
- class E to ISO/IEC 11801 Ed.2.2:2011-06 is complied with in combination with Cat.6, Cat.6a, Cat.7 and Cat.7c cables and Cat.6 connectors
- connection of data lines AWG 26/1 to 22/1 (solid wire)
- cable feed from one or two sides
- cable sharing, i.e. splitting one 8-wire cable into two 4-wire cables (one cable tie required each on input and output side)
- fully shielded metal housing
- strain relief and separate captive 360° shield connection
- 2 bore holes for wall mounting

---

**Copper Solutions**

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<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>130863-02-E</td>
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<td>4x2 IP</td>
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<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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</thead>
<tbody>
<tr>
<td>130863-E</td>
<td></td>
<td>4x2</td>
<td></td>
</tr>
</tbody>
</table>
Accessories

Keystone Modul IP44SG surface mounting housing unequipped
- lockable flush-mounted IP44 outlet, keyed alike with two keys (identical locks and keys)
- cover closes completely, even when patch cables are plugged in
- for two individual modules in Keystone design (not suitable for OpDAT modules)
- ball-impact resistant according to DIN 18032
- can be operated with standard patch cables
- clearly visible label window
- bottom section of housing can be turned 180°, with cable feed possible from top and bottom
- with space to install the required spare cable lengths
- grey

P/N Color Feature 1 Feature 2
1309460003KI grey AP 2 port empty Keystone module cut-out

Cable Sharing Adapter pnp1
- cable sharing adapter for simultaneous operation of two 4-wire services, for example: 2 phones (ISDN), via 8-wire installation line
- use in pairs: one adapter on wall outlet, one adapter on distributor
- shielded adapter with class E transmission characteristics in Link acc. to IEC 11801 Ed.2.2:2011-06 and DIN EN 50173-1:2011-09
- slim shape allows plugging next to each other
- short, flexible connection
- delivered as set of two pieces

P/N Color Feature 1 Feature 2
130548-01-E silver tel.-tel.
Accessories

Cable Sharing Adapter pnp2
- cable sharing adapter for simultaneous operation of two 4-wire services, here: 1 x Ethernet and 1 x telephone (ISDN), via an 8-wire installation wire
- use in pairs: one adapter on wall outlet, one adapter on distributor
- shielded adapter with class E transmission characteristics in Link acc. to IEC 11801 Ed.2.2:2011-06 and DIN EN 50173-1:2011-09
- 1 x Ethernet up to 100 MBit E / Fast Ethernet
- slim shape allows plugging next to each other
- short, flexible connection
- delivered as set of two pieces

P/N  Color  Feature 1  Feature 2
130548-02-E  silver  tel.-eth.

Cable Sharing Adapter pnp3
- cable sharing adapter for simultaneous operation of two 4-wire services, here: 2 x Ethernet, via an 8-wire installation wire
- use in pairs: one adapter on wall outlet, one adapter on distributor
- shielded adapter with class E transmission characteristics in Link acc. to IEC 11801 Ed.2.2:2011-06 and DIN EN 50173-1:2011-09
- 2 x Ethernet up to 100 MBit E / Fast Ethernet
- slim shape allows plugging next to each other
- short, flexible connection
- delivered as set of two pieces

P/N  Color  Feature 1  Feature 2
130548-03-E  silver  eth.-eth.
**Tools**

### Parallel jaw pliers 1 3/8 inch
- adjustable parallel-jaw wrench to compress C6, modul, E-DAT modul, E-DAT Industry field jack and E-DAT Industry field plug
- very easy handling

### Crimp tool LSA plus
- the crimp tool S (S for sensor) pushes a cable wire in a defined position into the LSA-PLUS® insulation displacement connector and cuts the wire to length in the same step

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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</thead>
<tbody>
<tr>
<td>140301-E</td>
<td>light grey</td>
<td>Parallel-jaw</td>
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<table>
<thead>
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<th>Feature 2</th>
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</thead>
<tbody>
<tr>
<td>130818-E</td>
<td>light grey with sensor</td>
<td></td>
<td></td>
</tr>
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Tools

Jokari dismantle tool is matching accessories for Page

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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</thead>
<tbody>
<tr>
<td>140302-01-E</td>
<td>white</td>
<td>dismantle tool</td>
<td></td>
</tr>
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</table>

- for fast and precise stripping of data cables
- with adjustable stop
<table>
<thead>
<tr>
<th>Fiber Optic Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Installation cables</td>
</tr>
<tr>
<td>Single mode/multi mode</td>
</tr>
<tr>
<td>2 Adapter</td>
</tr>
<tr>
<td>3 Pigtails</td>
</tr>
<tr>
<td>4 Pigtails</td>
</tr>
<tr>
<td>5 Patch panels fixed installation</td>
</tr>
<tr>
<td>Single mode/multi mode</td>
</tr>
<tr>
<td>6 Patch panels for fixed installation</td>
</tr>
<tr>
<td>Configurators</td>
</tr>
<tr>
<td>7 Patch panels withdrawable</td>
</tr>
<tr>
<td>Single mode/multi mode</td>
</tr>
<tr>
<td>8 Patch panels withdrawable</td>
</tr>
<tr>
<td>Configurators</td>
</tr>
<tr>
<td>9 Patch cords</td>
</tr>
<tr>
<td>10 Patch cords</td>
</tr>
<tr>
<td>11 OM5</td>
</tr>
</tbody>
</table>
OpDAT universal cable SM
- installation cable U-DQ(ZN)BH
- universal fiber optic cable for indoors/outdoors with central loose tube
- bending resistant fiber
- UV-resistant, metal-free, longitudinally waterproof, tensile strength, rodent-protected
- cable jacket: LSHF
- cable structure: filled loose tube
- with more loose tubes: loose tubes arranged around Ø 2.5 mm bar made of fiber glass reinforced plastic
- loose tubes Ø 2.8 mm with 2-12 fibers per loose tube
- loose tubes Ø 3.5 mm with 18-24 fibers per loose tube
- strain relief: longitudinally waterproof lapping, glass roving elements
- for indoor cabling
- for laying in tubes or directly in the ground in suitable layer of sand
- applicable standards: EN 50173-1, ISO 11801 2nd edition, IEC 60794-1, EN 187000
- fire behaviour: Class Eca (classification acc. to EN 13501-6)

variants:
- number of OS2 fibers 1x4, 1x8, 1x12, 1x24, 4x12

Others on request

OpDAT universal cable MM
- installation cable U-DQ(ZN)BH
- universal fiber optic cable for indoors/outdoors with central loose tube
- laser-optimized, bending-resistant fiber
- bending resistant fiber
- UV-resistant, metal-free, longitudinally waterproof, tensile strength, rodent-protected
- cable jacket: LSHF
- cable structure: filled loose tube
- with more loose tubes: loose tubes arranged around Ø 2.5 mm bar made of fiber glass reinforced plastic
- loose tubes Ø 2.8 mm with 2-12 fibers per loose tube
- loose tubes Ø 3.5 mm with 18-24 fibers per loose tube
- strain relief: longitudinally waterproof lapping, glass roving elements
- for indoor cabling
- for laying in tubes or directly in the ground in suitable layer of sand
- applicable standards: EN 50173-1, ISO 11801 2nd edition, IEC 60794-1, EN 187000
- fire behaviour: Class Eca (classification acc. to EN 13501-6)

variants:
- number of OM5 fibers 1x4, 1x8, 1x12, 1x24
- number of OM4 fibers 1x4, 1x8, 1x12, 1x24, 4x12
- number of OM3 fibers 1x4, 1x8, 1x12, 1x24, 4x12

Others on request

P/N  Color  Feature 1  Feature 2
150U0490000000M yellow 4 fibers 9/125 (OS2)
150U0890000000M yellow 8 fibers 9/125 (OS2)
150U1290000000M yellow 12 fibers 9/125 (OS2)
150U2490000000M yellow 24 fibers 9/125 (OS2)
150U4890000000M yellow 48 fibers 9/125 (OS2)
150U0480000000M lime green 4 fibers 50/125 (OM5)
150U0880000000M lime green 8 fibers 50/125 (OM5)
150U1280000000M lime green 12 fibers 50/125 (OM5)
150U2480000000M lime green 24 fibers 50/125 (OM5)
150U0470000000M violet 4 fibers 50/125 (OM4)
150U0870000000M violet 8 fibers 50/125 (OM4)
150U1270000000M violet 12 fibers 50/125 (OM4)
150U2470000000M violet 24 fibers 50/125 (OM4)
150U4870000000M blue or violet 48 fibers 50/125 (OM4)
150U0450000000M aqua 4 fibers 50/125 (OM3)
150U0850000000M aqua 8 fibers 50/125 (OM3)
150U1250000000M aqua 12 fibers 50/125 (OM3)
150U2450000000M aqua 24 fibers 50/125 (OM3)
150U4850000000M blue or aqua 48 fibers 50/125 (OM3)
**OpDAT mini breakout cable**
- installation cable mini-breakout (MBO) for universal cabling systems
- laser-optimized, bending-resistant fiber
- UV-resistant, metal-free, waterproof and moisture-resistant
- longitudinally water blocked and suitable for operation down to -40 °C
- cable sheath: LSHF-FR (low smoke halogen free - flame retardant)
- cable structure: 4, 12 or 24 tight buffered cables (Ø 0.9 mm)
- strain relief: Glasroving elements
- to be laid in tubes and cable ducts indoors and outdoors
- fire behaviour: Class Dca s1 d0 a1 acc. to EN 50399 (classification acc. to EN 13501-6)

Variants:
- number of OS2 fibers 4, 12 or 24
- number of OM5 fibers 4, or 12
- number of OM4 fibers 4, 12 or 24
- number of OM3 fibers 4, 12 or 24

Others on request

**OpDAT breakout cable**
- connection cable I-V(ZN)HH
- breakout cable for direct connector termination for indoors and outdoors
- laser optimized fiber
- bend insensitive fiber
- cable jacket: LSHF-FR
- UV resistant, metal-free, longitudinally watertight
- cable structure: several separately strain relieved cables in one outer jacket
- strain relief: Aramid
- applicable standards: EN 50173-1, ISO 11801 2nd edition, IEC 60794-2, IEC 60794-2-10, EN 187000
- fire behaviour: class Dca s1 d1 a1 acc. to EN 50399 (classification acc. to EN 13501-6)

Variants:
- Number of OS2 fibers 4x1, 8x1, 12x1, 24x1
- Number of OM5 fibers 4x1, 8x1, 12x1
- Number of OM4 fibers 4x1, 8x1, 12x1, 24x1
- Number of OM3 fibers 4x1, 8x1, 12x1, 24x1

Others on request

---

**Installation cables**

**Single mode/multi mode**

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>150M049000000M</td>
<td>yellow</td>
<td>4 fibers</td>
<td>9/125 (OS2)</td>
</tr>
<tr>
<td>150M129000000M</td>
<td>yellow</td>
<td>12 fibers</td>
<td>9/125 (OS2)</td>
</tr>
<tr>
<td>150M249000000M</td>
<td>yellow</td>
<td>24 fibers</td>
<td>9/125 (OS2)</td>
</tr>
<tr>
<td>150M048000000M</td>
<td>lime green</td>
<td>4 fibers</td>
<td>50/125 (OM5)</td>
</tr>
<tr>
<td>150M128000000M</td>
<td>lime green</td>
<td>12 fibers</td>
<td>50/125 (OM5)</td>
</tr>
<tr>
<td>150M047000000M</td>
<td>violet</td>
<td>4 fibers</td>
<td>50/125 (OM4)</td>
</tr>
<tr>
<td>150M127000000M</td>
<td>violet</td>
<td>12 fibers</td>
<td>50/125 (OM4)</td>
</tr>
<tr>
<td>150M247000000M</td>
<td>violet</td>
<td>24 fibers</td>
<td>50/125 (OM4)</td>
</tr>
<tr>
<td>150M045000000M</td>
<td>aqua</td>
<td>4 fibers</td>
<td>50/125 (OM3)</td>
</tr>
<tr>
<td>150M125000000M</td>
<td>aqua</td>
<td>12 fibers</td>
<td>50/125 (OM3)</td>
</tr>
<tr>
<td>150M245000000M</td>
<td>aqua</td>
<td>24 fibers</td>
<td>50/125 (OM3)</td>
</tr>
</tbody>
</table>

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**Principle diagram**

![Principle diagram](image-url)
LC-D adapter

- LC duplex plastic adapter, SC simplex design with metal clip
- slotted ceramic guide sleeves for single mode and multimode applications
- with transparent dust protection caps for a better visibility during red light test
- high material stability, surface quality and durability
- durability min. 1000 mating cycles with a ceramic guide sleeve
- screws and nuts included

- variants: blue (OS2), green (OS2 APC), lime green (OM5), violet (OM4), aqua (OM3), each variant available in packing units of 1 piece or 50 pieces

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>15090076-I</td>
<td>green</td>
<td>LC-D APC (SM)</td>
<td>1 pieces</td>
</tr>
<tr>
<td>15090076-50</td>
<td>green</td>
<td>LC-D APC (SM)</td>
<td>50 pieces</td>
</tr>
<tr>
<td>15090074-I</td>
<td>blue</td>
<td>LC-D (SM)</td>
<td>1 pieces</td>
</tr>
<tr>
<td>15090074-50</td>
<td>blue</td>
<td>LC-D (SM)</td>
<td>50 pieces</td>
</tr>
<tr>
<td>1509007M-I</td>
<td>lime green</td>
<td>LC-D (MM)</td>
<td>1 pieces</td>
</tr>
<tr>
<td>1509007M-50</td>
<td>lime green</td>
<td>LC-D (MM)</td>
<td>50 pieces</td>
</tr>
<tr>
<td>15090075-I</td>
<td>violet</td>
<td>LC-D (MM)</td>
<td>1 pieces</td>
</tr>
<tr>
<td>15090075-50</td>
<td>violet</td>
<td>LC-D (MM)</td>
<td>50 pieces</td>
</tr>
<tr>
<td>15090077-I</td>
<td>aqua</td>
<td>LC-D (MM)</td>
<td>1 pieces</td>
</tr>
<tr>
<td>15090077-50</td>
<td>aqua</td>
<td>LC-D (MM)</td>
<td>50 pieces</td>
</tr>
</tbody>
</table>

LC-Q adapter

- LC Quad plastic adapter, SC duplex design with metal clip
- slotted ceramic guide sleeves for single mode and multimode applications
- with transparent dust protection caps for a better visibility during red light test
- high material stability, surface quality and durability
- durability min. 1000 mating cycles with a ceramic guide sleeve
- screws and nuts included

- variants: blue (OS2), green (OS2 APC), lime green (OM5), violet (OM4), aqua (OM3), each variant available in packing units of 1 piece or 30 pieces

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1509007A-I</td>
<td>green</td>
<td>LC-Q APC (SM)</td>
<td>1 pieces</td>
</tr>
<tr>
<td>1509007A-30</td>
<td>green</td>
<td>LC-Q APC (SM)</td>
<td>30 pieces</td>
</tr>
<tr>
<td>15090071-I</td>
<td>blue</td>
<td>LC-Q (SM)</td>
<td>1 pieces</td>
</tr>
<tr>
<td>15090071-30</td>
<td>blue</td>
<td>LC-Q (SM)</td>
<td>30 pieces</td>
</tr>
<tr>
<td>1509007L-I</td>
<td>lime green</td>
<td>LC-Q (MM)</td>
<td>1 pieces</td>
</tr>
<tr>
<td>1509007L-30</td>
<td>lime green</td>
<td>LC-Q (MM)</td>
<td>30 pieces</td>
</tr>
<tr>
<td>15090079-I</td>
<td>violet</td>
<td>LC-Q (MM)</td>
<td>1 pieces</td>
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<tr>
<td>15090078-I</td>
<td>aqua</td>
<td>LC-Q (MM)</td>
<td>1 pieces</td>
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<tr>
<td>15090078-30</td>
<td>aqua</td>
<td>LC-Q (MM)</td>
<td>30 pieces</td>
</tr>
</tbody>
</table>
**SC-D adapter**

- SC duplex plastic adapter with metal clip
- Slotted ceramic guide sleeves for single mode and multimode applications
- With transparent dust protection caps for a better visibility during red light test
- High material stability, surface quality and durability
- Durability min. 1000 mating cycles
- Screws and nuts included

- Variants: blue (OS2), green (OS2 APC), lime green (OM5), violet (OM4), aqua (OM3), each variant available in packing units of 1 piece or 30 pieces

**ST-D adapter**

- ST duplex adapter made of zinc die-cast
- Slotted ceramic guide sleeves for single mode and multimode applications
- High material stability, surface quality and durability
- Durability min. 1000 mating cycles
- Screws included

- Variants: packing units of 1 piece or 30 pieces

### Fiber Optic Solutions

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>150900F2-I</td>
<td>green</td>
<td>SC-D APC (SM)</td>
<td>1 pieces</td>
</tr>
<tr>
<td>150900F2-30</td>
<td>green</td>
<td>SC-D APC (SM)</td>
<td>30 pieces</td>
</tr>
<tr>
<td>150900E2-I</td>
<td>blue</td>
<td>SC-D (SM)</td>
<td>1 pieces</td>
</tr>
<tr>
<td>150900E2-30</td>
<td>blue</td>
<td>SC-D (SM)</td>
<td>30 pieces</td>
</tr>
<tr>
<td>150900BM-I</td>
<td>lime green</td>
<td>SC-D (MM)</td>
<td>1 pieces</td>
</tr>
<tr>
<td>150900BM-30</td>
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<td>SC-D (MM)</td>
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</tr>
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<td>1 pieces</td>
</tr>
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<td>150900BB-30</td>
<td>violet</td>
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<td>30 pieces</td>
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<tr>
<td>150900BA-I</td>
<td>aqua</td>
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<td>aqua</td>
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<td>ST-D (SM + MM)</td>
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<td>ST-D (SM + MM)</td>
<td>30 pieces</td>
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</table>
Pigtails, 12 colors

- Pigtails with all variations of connector types LC, SC and ST
- Fiber types: OM3, OM4, OM5, OS2. All fibers are bend insensitive
- Single mode fiber OS2, E9/125 µm, bend insensitive according to IEC 60793-2-50 type B6_a and B6_b and G.657.A2 and B2, compatible to G.652.D or Multi mode fiber G50/125 µm, bend insensitive according to IEC 60793-2-10 type A1a.2 (OM3) / A1a.3 (OM4) / A1a.4 (OM5)
- Compact loose tube fiber with dia. 0.9 mm, length 2.0 m
- Color sequence in sets according to IEC 60304: red, green, blue, yellow, white, brown, violet, black, orange, pink. Secondary and primary coating same color
- Plug connector mounted on one side
- With test report, insertion loss and return loss tested at 100 %
- all available variants can be created with the cable configurator

---

Pigtails, single color

- Pigtails with all variations of connector types LC, SC and ST
- Fiber types: OM3, OM4, OM5, OS2. All fibers are bend insensitive
- Single mode fiber OS2, E9/125 µm, bend insensitive according to IEC 60793-2-50 type B6_a and B6_b and G.657.A2 and B2, compatible to G.652.D or Multi mode fiber G50/125 µm, bend insensitive according to IEC 60793-2-10 type A1a.2 (OM3) / A1a.3 (OM4) / A1a.4 (OM5)
- Compact loose tube fiber with dia. 0.9 mm, length 2.0 m
- Secondary and primary coating same color
- Plug connector mounted on one side
- With test report, insertion loss and return loss tested at 100 %
- all available variants can be created with the cable configurator

---

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<td>2.0 m</td>
<td>LC-SM (OS2)</td>
</tr>
<tr>
<td>150Q1JA0020E</td>
<td>green</td>
<td>2.0 m</td>
<td>LC-SM APC (OS2)</td>
</tr>
<tr>
<td>150Q1CO0020E</td>
<td>blue</td>
<td>2.0 m</td>
<td>SC-SM (OS2)</td>
</tr>
<tr>
<td>150Q1CA0020E</td>
<td>green</td>
<td>2.0 m</td>
<td>SC-SM APC (OS2)</td>
</tr>
<tr>
<td>150Q1AO0020E</td>
<td>metallike</td>
<td>2.0 m</td>
<td>ST-MM (OM5)</td>
</tr>
<tr>
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<td>beige</td>
<td>2.0 m</td>
<td>LC-MM (OM5)</td>
</tr>
<tr>
<td>150R1CO0020E</td>
<td>beige</td>
<td>2.0 m</td>
<td>SC-MM (OM5)</td>
</tr>
<tr>
<td>150N1JO0020E</td>
<td>violet</td>
<td>2.0 m</td>
<td>LC-MM (OM4)</td>
</tr>
<tr>
<td>150N1CO0020E</td>
<td>violet</td>
<td>2.0 m</td>
<td>SC-MM (OM4)</td>
</tr>
<tr>
<td>150M1JO0020E</td>
<td>metallike</td>
<td>2.0 m</td>
<td>ST-MM (OM4)</td>
</tr>
<tr>
<td>150M1CO0020E</td>
<td>aqua</td>
<td>2.0 m</td>
<td>LC-MM (OM3)</td>
</tr>
<tr>
<td>150M1AO0020E</td>
<td>metallike</td>
<td>2.0 m</td>
<td>ST-MM (OM3)</td>
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</tbody>
</table>

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<table>
<thead>
<tr>
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<th>Color</th>
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<th>Feature 2</th>
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<td>2.0 m</td>
<td>LC-SM (OS2)</td>
</tr>
<tr>
<td>150Q1JA0020S</td>
<td>green</td>
<td>2.0 m</td>
<td>LC-SM APC (OS2)</td>
</tr>
<tr>
<td>150Q1CO0020S</td>
<td>blue</td>
<td>2.0 m</td>
<td>SC-SM (OS2)</td>
</tr>
<tr>
<td>150Q1CA0020S</td>
<td>green</td>
<td>2.0 m</td>
<td>SC-SM APC (OS2)</td>
</tr>
<tr>
<td>150Q1AO0020S</td>
<td>metallike</td>
<td>2.0 m</td>
<td>ST-MM (OS2)</td>
</tr>
<tr>
<td>150R1JO0020S</td>
<td>lime green</td>
<td>2.0 m</td>
<td>LC-MM (OM5)</td>
</tr>
<tr>
<td>150R1CO0020S</td>
<td>lime green</td>
<td>2.0 m</td>
<td>SC-MM (OM5)</td>
</tr>
<tr>
<td>150N1JO0020S</td>
<td>lime green</td>
<td>2.0 m</td>
<td>ST-MM (OM5)</td>
</tr>
<tr>
<td>150N1CO0020S</td>
<td>lime green</td>
<td>2.0 m</td>
<td>SC-MM (OM5)</td>
</tr>
<tr>
<td>150M1JO0020S</td>
<td>lime green</td>
<td>2.0 m</td>
<td>ST-MM (OM3)</td>
</tr>
<tr>
<td>150M1CO0020S</td>
<td>lime green</td>
<td>2.0 m</td>
<td>SC-MM (OM3)</td>
</tr>
<tr>
<td>150M1AO0020S</td>
<td>lime green</td>
<td>2.0 m</td>
<td>ST-MM (OM3)</td>
</tr>
</tbody>
</table>

---

**Dimensional drawing**
Pigtail

- Pigtailed with all variations of plug types LC, SC and ST
- Fiber types: OM3, OM4, OM5, OS2. All fibers are bend insensitive
- Semi-tight buffered fiber 0.9 mm, length 2 m. Primary and secondary coating in the same color. Tight buffered fiber available on demand.
- Available as individual pigtail or in a set of 12
- Safe transport and safe storage of the set of 12 in a specially designed blister packaging

Example

**150 B 1 A O 0020 E**

ST (OM2) pigtail, length 2 m, orange

Part number key for further versions

- **Q** = OS2 (SM9/125)
- **M** = OM3 (MM50/125)
- **N** = OM4 (MM50/125)
- **R** = OM5 (MM50/125)
- **O** = PC (MM), UPC (SM)
- **A** = APC 8° (SM)

Single mode pigtailed are tested by 100 % on insertion loss and return loss at 1310 and 1550 nm. An interferometer measurement is done in addition. Multi mode pigtailed are tested by 100 % on insertion loss at 850 and 1300 nm. The measuring protocol is supplied with the pigtailed. The measurement is followed by a final visual control of the connectors according to IEC 61300-3-35.

- All pigtailed have a serial number

---

Please note:

These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned.
OpDAT fix LC-D splice
- 19 inch 1RU fiber optic patch panel for fixed installation
- equipped with LC-D adapters and LC pigtails
- pigtails with semi-tight buffered fiber dia. 0.9 mm, 12 colors, secondary and primary coating in the same color, length 2.0 m
- pigtails inserted and stripped in standard splice trays with crimp splice holders
- pigtails are cleaned and plugged in adapters
- light aluminum construction with steel sheet front plate painted (gray or black)
- unused cutouts are closed by blank connectors
- removable front plate for easy adapter mounting
- screwed on cover for easy access during service work
- several possibilities for cable entry on the back (fastening with PG13.5, PG16 and PG21 or M20 and M25)
- supplied with one PG16 cable gland

Variants: equipped with 6, 12 or 24 LC-D adapters and pigtails, all blue (OS2), lime green (OM5), violet (OM4), aqua (OM3) or 6, 12 or 24 LC-D APC adapters and pigtails, all green (OS2)

OpDAT fix LC-D VIK
- 19 inch 1RU fiber optic patch panel for fixed installation
- light aluminum construction with steel sheet front plate painted in RAL 9005
- equipped with LC-D adapter
- unoccupied recesses are closed with blind connectors
- removable front plate for easy adapter mounting
- screwed on cover for easy access during service work
- installation depth 240 mm (without cable gland and adapter)
- several possibilities for cable entry on the back (fastening with PG13.5, PG16 and PG21 or M20 and M25)
- toolless fastening of pre-assembled installation cables (OpDAT VIK) in a U-shaped cutout

Variants: equipped with 6, 12 or 24 LC-D adapters, all blue (OS2), violet (OM4) or aqua (OM3)

Notes:
On pages 149-153 you will find further information about VIK cable.
OpDAT fix

- Fiber optic patch panels for 19-inch systems, 1 rack unit (RU)
- Service-friendly mounting by removable cover or an extendible drawer
- Light construction with steel sheet front plate
- Front plates available in gray (RAL 7035) or black (RAL 9005)
- All front plates are available with 12 or 24 adapter cutouts. Unused cutouts in the front plate are covered by blank plugs
- Available with the following adapters: LC, SC, E2000 and ST in duplex version. All adapters with ceramic sleeves. Other types available on demand.

Example

15025 9 74 24 -J

OpDAT fix patch panel equipped with 24 LC-D (SM) adapter, 48 pigtails (OS2) inserted and stripped in four splice trays with shrink splice holders

Part number key for further versions

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Variant &quot;VIK&quot; (without pigtails)</td>
</tr>
<tr>
<td>9</td>
<td>OS2 (SM9/125)</td>
</tr>
<tr>
<td>5</td>
<td>OM3 (MM50/125)</td>
</tr>
<tr>
<td>7</td>
<td>OM4 (MM50/125)</td>
</tr>
<tr>
<td>8</td>
<td>OM5 (MM50/125)</td>
</tr>
</tbody>
</table>

- Pigtails are available with fiber types OM3, OM4, OM5 and OS2. All pigtails are inspected and cleaned before inserted into the adapters according to IEC 61300-3-35

For variant "VIK" and variant "splice" with holder for crimp splice protection

- **E** = gray front plate for max. 24 adapters
- **F** = gray front plate for max. 12 adapters
- **B** = black front plate for max. 24 adapters
- **C** = black front plate for max. 12 adapters

For variant "splice" with holder for shrink splice protections

- **S** = gray front plate for max. 24 adapters
- **H** = gray front plate for max. 12 adapters
- **J** = black front plate for max. 24 adapters
- **K** = black front plate for max. 12 adapters

Pigtail fiber type

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>74</td>
<td>LC-D, duplex, SM, blue, ceramic sleeves</td>
</tr>
<tr>
<td>76</td>
<td>LC-D APC, duplex, SM, green, ceramic sleeves</td>
</tr>
<tr>
<td>75</td>
<td>LC-D, duplex, OM4, violet, ceramic sleeves</td>
</tr>
<tr>
<td>77</td>
<td>LC-D, duplex, OM3, aqua, ceramic sleeves</td>
</tr>
<tr>
<td>E2</td>
<td>SC-D, duplex, SM, blue, ceramic sleeves</td>
</tr>
<tr>
<td>F2</td>
<td>SC-D APC, duplex, SM, green, ceramic sleeves</td>
</tr>
<tr>
<td>BB</td>
<td>SC-D, duplex, OM4, violet, ceramic sleeves</td>
</tr>
<tr>
<td>BA</td>
<td>SC-D, duplex, OM3, aqua, ceramic sleeves</td>
</tr>
<tr>
<td>D1</td>
<td>ST-D, duplex, SM, metal, ceramic sleeves</td>
</tr>
</tbody>
</table>
OpDAT slide LC-D splice

- 19 inch 1RU fiber optic patch panel with pull-out splice tray / front cover (gray or black)
- equipped with LC-D adapters and LC pigtails
- pigtails with semi-tight buffered fiber dia. 0.9 mm, 12 colors, secondary and primary coating in the same color, length 2.0 m
- pigtails inserted and stripped in standard splice trays with crimp splice holders
- pigtails are cleaned and plugged in adapters
- splice tray can be tilted and completely removed to facilitate fitting (end stop)
- unused cutouts are closed by blank plugs
- installation depth 240 mm (without cable gland and adapters)
- several possibilities for cable entry on the back (fastening with PG13.5, PG16 and PG21 or M20 and M25)
- a PG16 mounting kit is included in delivery
- variants: equipped with 6, 12 or 24 LC-D adapters and pigtails, all blue (OS2), lime green (OM5), heather violet (OM4), aqua (OM3) or 6, 12 or 24 LC-D APC adapters and pigtails, all green (OS2)

OpDAT slide LC-D VIK

- 19 inch 1RU fiber optic patch panel with pull-out splice tray / front cover in black (RAL 9005)
- splice tray can be tilted and removed completely for better mounting (end stop)
- equipped with LC-D couplers
- unused cutouts are closed by blank plugs
- installation depth 240 mm (without cable gland and coupler)
- several possibilities for cable entry on the back (fastening with PG13.5, PG16 and PG21 or M20 and M25)
- variants: equipped with 6, 12 or 24 LC-D adapters, all blue (OS2), lime green (OM5), heather violet (OM4) or aqua (OM3) or with 6, 12 or 24 SC-D APC adapters, all green (OS2)

Notes:
On pages 149-153 you will find further information about VIK cable.
OpDAT slide
- Fiber optic patch panels for 19-inch systems, 1 rack unit (RU)
- Service-friendly mounting by removable cover or an extendible drawer
- Light construction with steel sheet front plate
- Front plates available in gray (RAL 7035) or black (RAL 9005)
- All front plates are available with 12 or 24 adapter cutouts. Unused cutouts in the front plate are covered by blank plugs.
- Available with the following adapters: LC, SC, E2000 and ST in duplex version. All adapters with ceramic sleeves.
- Other types available on demand.

Example

15026 9 75 24 - J

OpDAT slide patch panel equipped with 24 LC-D (SM) adapter, 48 pigtails (OS2) inserted and stripped in a splice tray with shrink splice holders.

Part number key for further versions

| 0 = variant 'VIK' (without pigtails) |
| 9 = OS2 (SM9/125) |
| 5 = OM3 (MM50/125) |
| 7 = OM4 (MM50/125) |
| 8 = OM5 (MM50/125) |

Pigtail fiber type

15026

- Adapters

Front plate and splice protection holder

For variant "VIK" and variant "splice" with holder for crimp splice protection

E = gray front plate for max. 24 adapters
F = gray front plate for max. 12 adapters
B = black front plate for max. 24 adapters
C = black front plate for max. 12 adapters

For variant "splice" with holder for shrink splice protections

S = gray front plate for max. 24 adapters
H = gray front plate for max. 12 adapters
J = black front plate for max. 24 adapters
K = black front plate for max. 12 adapters
### Fiber optic patch cord SM
- single mode patch cord I-V(ZN)H
- single mode fiber OS2, E9/125 µm, bend insensitive according to IEC 60793-2-50 type B6_a and B6_b and G.657.A, compatible to G.652.D
- outer diameter 2.0 x 4.2 mm
- halogen-free LSHF-FR sheath with low smoke development
- duplex cord as zipcord (figure 8) with two tight buffered cables and aramide strain relief
- automatic end face polish
- 100 % tested
- colors may differ due to delivery
- maximum length: 20 m
- patch cord available with all versions of connector types LC-D, SC-D and ST as well as APC; other connector types on request
- available in various lengths - replace xx in article number by desired length Acc. to diagram: 10 = 1.0 m; 20 = 2.0 m; 50 = 5.0 m; A0 = 10 m; B0 = 20 m

### Fiber optic patch cord MM
- multi mode patch cord I-V(ZN)H
- laser-optimized Multi mode fiber, G50/125 µm according to IEC 60793-2-10 type A1a.3 and A1a.2
- outer diameter 2.0 x 4.2 mm
- halogen-free LSHF-FR sheath with low smoke development
- duplex cord as zipcord (figure 8) with two tight buffered cables and aramide strain relief
- automatic end face polish
- 100 % tested
- colors may differ due to delivery
- maximum length: 20 m
- patch cord available with all versions of connector types LC-D, SC-D and ST; other connector types on request
- available in various lengths - replace xx in article number by desired length Acc. to diagram: 10 = 1.0 m; 20 = 2.0 m; 50 = 5.0 m; A0 = 10 m; B0 = 20 m

---

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tbody>
<tr>
<td>151R1EOOXXE</td>
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<td>SC-D/SC-D</td>
<td>50/125 (OM5)</td>
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<tr>
<td>151R1EOOXXE</td>
<td>lime green</td>
<td>SC-D/LC-D</td>
<td>50/125 (OM5)</td>
</tr>
<tr>
<td>151R1JOXXXE</td>
<td>lime green</td>
<td>LC-D/LC-D</td>
<td>50/125 (OM5)</td>
</tr>
<tr>
<td>151S1EOOXXE</td>
<td>violet</td>
<td>SC-D/SC-D</td>
<td>50/125 (OM4)</td>
</tr>
<tr>
<td>151S1EOOXXE</td>
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<td>SC-D/LC-D</td>
<td>50/125 (OM4)</td>
</tr>
<tr>
<td>151S1JOXXXE</td>
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<td>LC-D/LC-D</td>
<td>50/125 (OM4)</td>
</tr>
<tr>
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<td>violet</td>
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<td>50/125 (OM4)</td>
</tr>
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<td>SC-D</td>
<td>50/125 (OM3)</td>
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<td>LC-D/LC-D</td>
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<td>LC-D/ST</td>
<td>50/125 (OM3)</td>
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<tr>
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<td>ST</td>
<td>50/125 (OM3)</td>
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<table>
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<th>Feature 2</th>
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<tr>
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<td>SC-D/SC-D</td>
<td>9/125 (OS2)</td>
</tr>
<tr>
<td>151P1JOXXXE</td>
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<td>LC-D</td>
<td>9/125 (OS2)</td>
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<tr>
<td>151P1AOXXE</td>
<td>yellow</td>
<td>ST</td>
<td>9/125 (OS2)</td>
</tr>
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<td>yellow</td>
<td>SC-D/ST</td>
<td>9/125 (OS2)</td>
</tr>
<tr>
<td>151T1AOXXE</td>
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<td>ST</td>
<td>9/125 (OS2)</td>
</tr>
<tr>
<td>151E1EOXXE</td>
<td>yellow</td>
<td>SC-D</td>
<td>9/125 (OS2)</td>
</tr>
<tr>
<td>151E1AOXXE</td>
<td>yellow</td>
<td>ST</td>
<td>9/125 (OS2)</td>
</tr>
</tbody>
</table>
Patch cords

- Patch cords with all variants of connector types LC, SC and ST.
- Fiber types: OM3, OM4, OM5, OS2. All fibers are bend insensitive.
- Cable types:
  - Duplex patch cords ("figure 8") with two tight buffers and Aramid as strain relief
  - Duplex connection cable ("figure 0") with two tight buffers in an additional outer jacket and Aramid as strain relief
  - Simplex patch cords (only for SM) with one tight buffer and Aramid as strain relief
- Duplex patch cords are logically crossed as a standard (A->B, B->A), logically uncrossed patch cords available on request.
- SC and LC connectors of duplex patch cords are always connected by duplex clips, ST are supplied without clips.
- Available in lengths between 0.5 to 20 m. The use of duplex connection cables is recommended for lengths of more than 20 m because of the higher mechanical strength.
- Low smoke, halogen free, flame retardant cable jacket (LSHF-FR)
- Single mode patch cords are tested by 100 % on insertion loss and return loss at 1310 and 1550 nm. An interferometer measurement is done in addition.
- Multi mode patch cords are tested by 100 % on insertion loss at 850 and 1300 nm.
- The measurement is followed by a final visual control of the connectors according to IEC 61300-3-35.
- All patch cords are provided with a serial number and a bar code. This allows traceability and measured values can be made available at any time.

Example

151 S 1 E 0 A 0 A6 E

Duplex patch cable 50/125 OM4 with SC-D and ST Standard PC, respectively, length 16 m

Part number key for further versions

<table>
<thead>
<tr>
<th>Fiber type</th>
<th>Connector type end A</th>
<th>Connector type end B</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>P = OS2 (SM9/125)</td>
<td>J = LC</td>
<td>A = ST</td>
<td></td>
</tr>
<tr>
<td>J = OM3 (MM50/125)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S = OM4 (MM50/125)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R = OM5 (MM50/125)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cable type</th>
<th>Plug polishing end A</th>
<th>Plug polishing end B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = Duplex patch cord (figure 8)</td>
<td>O = PC (MM), UPC (SM)</td>
<td>A = APC 8° (SM)</td>
</tr>
<tr>
<td>2 = Duplex connection cable (figure 0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 = Simplex cable (only SM)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please note:
These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned.
OM5 – future-proof multimode fiber for computing centres

Previously, multimode fibers were only operated with a narrow band at 850 or 1300 nm. In order to meet the rapidly increasing demand for more and more bandwidth, the new OM5 fibre type with very positive transmission properties has been developed in a band of 100 nm: in the range of 850 to 950 nm, four wavelengths can be transmitted simultaneously by means of so-called wavelength division multiplexing.

The keywords are shortwave wavelength division multiplexing (SWDM), a process that allows four times the previous transmission power. It can transmit 40 GBit/s with 4 wavelengths at 10 GBit/s via a transmitting and receiving fiber. Or even 100 GBit/s through 4 times 25 GBit/s.

OM5 fibres in conjunction with SWDM transceivers thus increase capacities without having to do without the proven LC duplex connectors.

The cabling of buildings or data centres with OM5 supports all previous applications as well as OM4 or OM3. Both plug and cable are fully compatible. However, the OM5 fiber in combination with corresponding transceivers offers a longer range.

WideCap-OM5 also has very positive macro bending properties. The fibre meets or exceeds the following international specifications:

- IEC 60793-2-10: Type A1a.4
- ITU-T G.651.1
- TIA/EIA-492 AAAE
- ISO/IEC 11801 Category OM5 (in progress)

In February 2017, the TIA (Telecommunications Industry Association) defined the colour "lime green" for identifying the OM5 fiber in the USA. The respective European standards are being worked on.
With the new OM5 multimode fiber...

- you have 4-times more capacity than with OM4
- you can reduce the number of fibres 4 fold
- the bandwidth is specified for the optical window of 850 to 950nm (OM4 is only specified for 850nm)

OM5 multimode fibers support...

- new WDM technologies in order to meet the capacity requirements of the next ten years
- Cable solutions for 40, 100 and 200G WDM systems with only 2 fibers
- in the future, 400 and 800G over 4 fiber pairs (MPO)

Just use our configurators, which you can find on our homepage www.metz-connect.com/en/configurators. In it you will find all available variants.
Data Center Solutions

1  RJ45 | Cat.6A  
2  RJ45 | Configurator  
3  Fiber optic | Single mode/multi mode  
4  Accessories  
5  25G System | The RJ45 building cabling with future  

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Matching accessories for DCCS2 MTC1

- 6 port RJ45 subassembly to mount one 24-pair installation cable AWG26 or AWG23
- Component testing for Cat.6a, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified by GHMT
- Compliance with class EA up to 500 MHz to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, certified by GHMT
- Tested: components up to 600 MHz, link up to 800 MHz
- Suitable for Power over Ethernet (PoE, PoE plus and UPoE)
- Alien Next optimized, shielded jacks
- The locking levers of patch cords connected to DCCS2 subassemblies show upwards and are easy to handle at any time
- Connection of one data cable AWG 26/1 to 22/1 (solid wire) to LSA IDC terminal blocks
- Marking of conductor assignment to T568A
- Solid and refined assembly housing
- Shield tap for installation cable separate from strain relief
- Mounting version: DCCS2

Matching accessories for DCCS2 MTC6

- 6 port RJ45 subassembly to connect 6 individual installation cables
- Component testing for Cat.6a, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified by GHMT
- Compliance with class EA up to 500 MHz to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, certified by GHMT
- Tested: components up to 600 MHz, link up to 800 MHz
- Suitable for Power over Ethernet (PoE, PoE plus and UPoE)
- Alien Next optimized, shielded jacks
- The locking levers of patch cords connected to DCCS2 subassemblies show upwards and are easy to handle at any time
- Connection of one data cable AWG 26/1 to 22/1 (solid wire) to LSA IDC terminal blocks
- Marking of conductor assignment to T568A
- Solid and refined assembly housing
- Shield tap for installation cable separate from strain relief
- Mounting version: DCCS2

Dimensional drawing

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>130D2CM1-E</td>
<td></td>
<td>6 x RJ45</td>
<td>for 1x24 pairs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>130D2CM6-E</td>
<td></td>
<td>6 x RJ45</td>
<td>for 6x4 pairs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DCCS2 PL26 Link
- DCCS2 class E, Permanent Link consisting of two 6-port RJ45 subassemblies connected to a 24-pair installation cable AWG26/1
- component testing for Cat.6A to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified by GHMT
- compliance with class E, up to 500 MHz to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, certified by GHMT
- tested: components up to 600 MHz, link up to 800 MHz
- for 10 GBit Ethernet (IEEE 802.3an)
- suitable for Power over Ethernet (PoE, PoE plus and UPoE) with reduced temperature range
- Alien Next optimized, shielded jacks
- the locking levers of patch cords connected to DCCS2 subassemblies show upwards and are easy to handle at any time
- solid and refined assembly housing
- shield tap for installation cable separate from strain relief
- cable diameter less than 14 mm
- short links with less then 5 m are also available
- delivery with serial number and 6 Permanent Link measurement reports
- mounting version: DCCS2
- available in prefabricated, customer specific lengths – replace the xxx in the part number by the length – examples: 050 = 5.0 m; 100 = 10.0 m; 200 = 20.0 m; 500 = 50.0 m
- maximum length 50 m
- configuration tool in Microsoft® Excel available on request

DCCS2 PL23 Link
- DCCS2 class E, Permanent Link consisting of two 6-port RJ45 subassemblies connected to a 24-pair installation cable AWG23/1
- component testing for Cat.6A to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified by GHMT
- compliance with class E, up to 500 MHz to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, certified by GHMT
- tested: components up to 600 MHz, link up to 800 MHz
- for 10 GBit Ethernet (IEEE 802.3an)
- suitable for Power over Ethernet (PoE, PoE plus and UPoE)
- Alien Next optimized, shielded jacks
- the locking levers of patch cords connected to DCCS2 subassemblies show upwards and are easy to handle at any time
- solid and refined assembly housing
- shield tap for installation cable separate from strain relief
- cable diameter less than 19 mm
- short links with less then 5 m are also available
- delivery with serial number and 6 Permanent Link measurement reports
- mounting version: DCCS2
- available in prefabricated, customer specific lengths – replace the xxx in the part number by the length – examples: 050 = 5.0 m; 100 = 10.0 m; 200 = 20.0 m; 800 = 80.0 m
- maximum length 80 m
- configuration tool in Microsoft® Excel available on request

Matching accessories
for DCCS2 PL26 Link

DCCS2 BGT 19 inch 1RU subrack black

Matching accessories
for DCCS2 PL23 Link

DCCS2 BGT 19 inch 1RU subrack black

Dimensional drawing

P/N Color Feature 1 Feature 2
130D2CL1XXXE AWG 26

P/N Color Feature 1 Feature 2
130D2CL2XXXE AWG 23
DCCS2 RJ45-Link
- Class EA Permanent Link consisting of 2 subassemblies 6 ports RJ45 mounted to a 24-pair installation cable
- Cat.6A component testing as per ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), GHMT certified
- Class E A up to 500 MHz as per ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, GHMT certified
- Component testing: up to 600 MHz, link up to 800 MHz
- For up to 10 GBit Ethernet (IEEE 802.3an)
- Suitable for Power over Ethernet (PoE, PoE plus and UPoE)
- Solid, refined subassembly housing
- Shield tap for installation cable separate from strain relief
- Delivery with serial number and 6 Permanent Link measuring reports
- Installation shape: DCCS2
- Also short links with less than 5 m possible
- Configuration tool in Microsoft® Excel upon request

Example
130D2CL 2 660 E
DCCS2 RJ45 link to 24-pair AWG23/1 S/FTP cable length 66.0 m

Part number key for further versions

<table>
<thead>
<tr>
<th>1</th>
<th>24P AWG 26/1 S/FTP (up to 50 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>24P AWG 23/1 S/FTP (up to 80 m)</td>
</tr>
<tr>
<td>E</td>
<td>DCCS2 Link</td>
</tr>
<tr>
<td>O</td>
<td>open on one side</td>
</tr>
</tbody>
</table>

Please note:
These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned.
DCCS2 6 x LC-D Link

- prefabricated fiber optic link consisting of 2 subassemblies DCCS2 with 6 LC-D adapter mounted to a 12 fiber mini breakout cable
- port numbering of the DCCS2 19" subassembly frame remains in place when installing the FO subassemblies
- for 10 GBit Ethernet (IEEE 802.3an)
- the locking levers of patch cords connected to DCCS2 subassemblies show upwards and are easy to handle at any time
- solid and refined assembly housing
- cable diameter less than 6.5 mm
- delivery with serial number and 12 attenuation measurement reports
- mounting version: DCCS2
- available in prefabricated, customer specific lengths – replace xxxx in the part number by the length – examples: 0050 = 5.0 m; 0100 = 10.0 m; 0995 = 99.5 m; 2000 = 200.0 m
- maximum length: 500 m
- configuration tool in Microsoft® Excel available on request
- variants: SM (OS2), SM (OS2 APC), MM (OM5), MM (OM4), MM (OM3)

DCCS2 6 x LC-D VIK Link

- prefabricated fiber optic cable divider link consisting on one side of one subassembly DCCS 2 with 6 LC-D adapter mounted to a 12 fiber mini breakout cable. The other side is configured with 12 LC plugs with a dismantle measure of about 30 cm, in installation tube about 35 cm and a diameter of about 47 mm
- especially suited to be combined with DCCS2 subassemblies 6xLC-D
- port numbering of the DCCS2 19" subassembly frame remains in place when installing the FO subassemblies
- for 10 GBit Ethernet (IEEE 802.3an)
- the locking levers of patch cords connected to DCCS2 subassemblies show upwards and are easy to handle at any time
- solid and refined assembly housing
- cable diameter less than 6.5 mm
- delivery with serial number and 12 attenuation measurement reports
- mounting version: DCCS2
- available in prefabricated, customer specific lengths – replace xxxx in the part number by the length – examples: 0050 = 5.0 m; 0100 = 10.0 m; 0995 = 99.5 m; 2000 = 200.0 m
- maximum length: 500 m
- configuration tool in Microsoft® Excel available on request
- variants: SM (OS2), SM (OS2 APC), MM (OM5), MM (OM4), MM (OM3)

Matching accessories for DCCS2 6 x LC-D Link

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>130D2F572XXXXE</td>
<td>aqua</td>
<td>6 x LC-D</td>
<td>50/125 (OM3)</td>
</tr>
<tr>
<td>130D2F772XXXXE</td>
<td>violet</td>
<td>6 x LC-D</td>
<td>50/125 (OM4)</td>
</tr>
<tr>
<td>130D2F87XXXXXE</td>
<td>lime green</td>
<td>6 x LC-D</td>
<td>50/125 (OM5)</td>
</tr>
<tr>
<td>130D2F971XXXXE</td>
<td>blue</td>
<td>6 x LC-D</td>
<td>9/125 (OS2)</td>
</tr>
<tr>
<td>130D2F976XXXXE</td>
<td>green</td>
<td>6 x LC-D APC</td>
<td>9/125 (OS2)</td>
</tr>
</tbody>
</table>

Matching accessories for DCCS2 6 x LC-D VIK Link

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>130D2F572XXXXZ</td>
<td>aqua</td>
<td>6 x LC-D EVZ</td>
<td>cable divider</td>
</tr>
<tr>
<td>130D2F772XXXXZ</td>
<td>violet</td>
<td>6 x LC-D EVZ</td>
<td>50/125 (OM4)</td>
</tr>
<tr>
<td>130D2F87MXXXXZ</td>
<td>lime green</td>
<td>6 x LC-D EVZ</td>
<td>50/125 (OM5)</td>
</tr>
<tr>
<td>130D2F971XXXXZ</td>
<td>blue</td>
<td>6 x LC-D EVZ</td>
<td>9/125 (OS2)</td>
</tr>
<tr>
<td>130D2F976XXXXZ</td>
<td>green</td>
<td>6 x LC-D APC EVZ</td>
<td>9/125 (OS2)</td>
</tr>
</tbody>
</table>
DCCS2 6 x LC-D
• DCCS2 fiber optic subassembly mounted with 6 LC-D adapter
• port numbering of the DCCS2 19" subassembly frame remains in place when installing the FO subassembly
• the locking levers of patch cords connected to DCCS2 subassemblies show upwards and are easy to handle at any time
• for prefabricated mini breakout cables in customer specific lengths
• solid and refined assembly housing
• mounting version: DCCS2
• variants: blue (SM), green (SM APC), lime green (OM5), violet (OM4), aqua (OM3)

DCCS2 6 x LC-D / 1 x MPO
• DCCS2 fiber optic subassembly MPO with 6 mounted LC-D adapter
• port numbering of the DCCS2 19" subassembly frame remains in place when the fiber optic subassembly is installed
• all locking levers of patch cords connected to DCCS2 subassemblies show upwards and are easy to handle at any time
• on the back 1 x MPO coupler (exterior: key up) polarity, Method A
• solid and refined subassembly housing
• mounting version: DCCS2
• variants: SM (OS2), SM (OS2 APC), MM (OM4), MM (OM3)

P/N  Color  Feature 1  Feature 2
130D2FB51-E  aqua  6 x LC-D MM (ceramic)
130D2FB71-E  violet  6 x LC-D MM (ceramic)
130D2FB81-E  lime green  6 x LC-D MM (ceramic)
130D2FB91-E  blue  6 x LC-D SM
130D2FBA1-E  green  6 x LC-D APC SM

P/N  Color  Feature 1  Feature 2
130D2FMS1A-E  aqua  6 x LC-D 50/125 (OM3)
130D2FMS71A-E  violet  6 x LC-D 50/125 (OM4)
130D2FM91A-E  blue  6 x LC-D 9/125 (OS2)
130D2FMA1A-E  green  6 x LC-D APC 9/125 (OS2)
Fiber optic | Single mode/multi mode

**DCCS2 6 x MPO**
- 6 port MPO subassembly for 10 / 40 / 100 MBit/s
- 6x MPO adapters Key up / Key down
- with optional strain relief
- fastening in a 19-inch subrack by a knurled screw
- easy mounting/dismounting to/from 19-inch subracks in 19-inch cabinets (plug and play)
- design: DCCS2

variants: OM3: aqua; OM4: violet; OS2 APC: green

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
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<tbody>
<tr>
<td>130D2FBM5A-E</td>
<td>aqua</td>
<td>6xMPO</td>
<td>MM</td>
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<td>6xMPO</td>
<td>MM</td>
</tr>
<tr>
<td>130D2FBMAA-E</td>
<td>green</td>
<td>6xMPO</td>
<td>SM APC</td>
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</tbody>
</table>
DCCS2 subassembly frame black is matching accessories for

- DCCS2 subassembly C6, MTC1
- DCCS2 subassembly C6, MTC6
- DCCS2 C6, PL26
- DCCS2 C6, PL23
- DCCS2 OM3 6xLC-D link
- DCCS2 OM4 6xLC-D link
- DCCS2 OM2 6xLC-D link
- DCCS2 OM2 6xLC-D APC link
- DCCS2 OM3 6xLC-D cable divider link
- DCCS2 OM4 6xLC-D cable divider link
- DCCS2 OM2 6xLC-D cable divider link
- DCCS2 OM2 6xLC-D APC cable divider link
- DCCS2 subassembly 6xLC-D MM aqua
- DCCS2 subassembly 6xLC-D MM violet
- DCCS2 subassembly 6xLC-D SM blue
- DCCS2 subassembly 6xLC-D SM APC green
- DCCS2 subassembly OM3 MPO 6xLC-D
- DCCS2 subassembly OM4 MPO 6xLC-D
- DCCS2 subassembly OM2 MPO 6xLC-D
- DCCS2 subassembly OM2 MPO 6xLC-D APC
- DCCS2 subassembly OM3 6xLC-D MM aqua
- DCCS2 subassembly OM3 6xLC-D MM violet
- DCCS2 subassembly OM3 SM blue
- DCCS2 subassembly OM3 SM APC green
- DCCS2 subassembly OM4 MPO 6xLC-D
- DCCS2 subassembly OM4 MPO 6xLC-D APC

**DCCS2 subassembly frame black**

- 19 inch 1UH subassembly frame to mount up to eight DCCS2 subassemblies
- Very high packaging density: up to 48 RJ45 ports or 48 fiber optic duplex adapter (96 fibers)
- Black, powder coated steel sheet frame
- Port numbering from 1 to 48
- Port numbering remains in place when DCCS2 Twisted Pair and DCCS2 FO subassemblies are mounted
- Enclosed grounding kit
- Downward compatible to DCCS with low mounting effort
- Mounting version: DCCS2, DCCS and double DCCS

**DCCS blind cover**

- Dummy cover for closing unused recesses in DCCS and DCCS2 assembly frame
- Mounting material enclosed
- Black, powder coated steel sheet
- Mounting version: DCCS

---

**Accessories**

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tbody>
<tr>
<td>130D281B-E</td>
<td>black</td>
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<table>
<thead>
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<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tbody>
<tr>
<td>130DBL1-E</td>
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<td>Blind module</td>
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</tbody>
</table>
25G System –
The RJ45 building cabling with future

Intelligent system solution for the highest-performing, future-oriented, structured cabling

The need today for high data transfer rates is enormous. On 12 September 2017, the Internet node in Frankfurt reported a new record of 5.88 terabits per second. By mid-March 2018, just under 6.4 terabits per second had already been measured. Five years ago, it was not even 2 terabits per second.

A forward-looking, intelligent building cabling for a wide variety of uses has a high priority among investors as basic home and building control. Investments are secured over the years, construction and maintenance costs are minimized.

System components

25GBit high-speed data transmission requires the performance of all the components. In addition to the connection components, this also includes the installation and patch cords. With products from METZ CONNECT, you have the right components to provide you with a complete and end-to-end solution from the server to the end device.

25Gmodul

- RJ45 pursuant to 60603-7-1
- 25GBASE-T pursuant to DTR-11801-9905 in channel link with 30 m (50 m in progress)
- Completely backward compatible through compliance with Class E pursuant to ISO/IEC 11801-1 and DIN EN 50173-1 (in permanent link up to 90 m; in channel link to 100 m)
- without special tools migratable from C6Amodul of 25Gmodul by swapping the metal case

Variants 25modul K
(mounting cut-out construction keystone)

25Gmodul K - P/N
Individual module package 130B21-25-E
12 Unit module package 130B21-25-Z

GC1300 pro22 and GC1500 pro22 (P/N please refer Page 24)

- 25/10 GBit installation cable (GC1300 pro22), 10 GBit Installation cable (GC1500 pro22)
- Reaction to fire: Class Dca after EN 50399
- pair shielded Cat.7A AWG 22 S/FTP
- overall shield: Cu tinned braid, coupling loss ≥ 85 dB

Patch cable 25G AWG 26 (P/N 13084G20xx-E)

- pair shielded 25G patch cable AWG 26/7, halogen-free
- for 25 GBit/s (IEEE 802.3bz); 10 GBit/s (IEEE 802.3an)
- two shielded RJ45 plugs, wiring, 1 - 1
- 2 m (no further standard lengths for 25 GBit possible)
High performance

The 25G system offers high performance by fulfilling the DTR-11801-9905 for 25GBASE-T pursuant to IEEE 802.3bq (in the channel link up to 30 m) for the highest performance applications up to 1250 MHz bandwidth and 25 GBit Ethernet as well as ISO/IEC 11801-1 Class EA in permanent and channel link up to link lengths of 100 m for demanding applications in the range up to 500 MHz bandwidth and 10 GBit Ethernet pursuant to IEEE 802.3an. The high-quality product quality is further enhanced by a robust die-cast zinc housing.

Independent certification

The connection system meets international requirements for future-oriented copper-based data highways.

- RJ45 pursuant to 60603-7-1
- GHMT certified pursuant to DTR-11801-9905 for 25GBaseT in channel link with 30 m (50 m in progress).
- GHMT certified pursuant to Class EA in permanent link up to 90 m pursuant to ISO/IEC 11801-1 and DIN EN 50173-1

The requirements of Class EA are also complied with in channel link pursuant to the above-mentioned standard.

The highest compatibility for efficient use

Our new 25G System is consistent and compatible – a prerequisite for the transparent, efficient and individual use of future-oriented network and cabling systems. Build today the network infrastructure of tomorrow. The minimum additional monetary cost provides you with 2.5 times the transmission speed.
## Industrial Connectors

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<tr>
<th>No.</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
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<td>1</td>
<td>IP PC</td>
<td>Performance specifications</td>
</tr>
<tr>
<td>2</td>
<td>IP PC</td>
<td>RJ45 plug inserts (for IP67 housings)</td>
</tr>
<tr>
<td>3</td>
<td>IP PC</td>
<td>Fiber Optic inserts (for IP67 housings)</td>
</tr>
<tr>
<td>4</td>
<td>IP PC</td>
<td>RJ45 jack &amp; coupler inserts</td>
</tr>
<tr>
<td>5</td>
<td>IP PC</td>
<td>Fiber Optic adapter inserts</td>
</tr>
<tr>
<td>6</td>
<td>IP PC</td>
<td>USB adapter inserts</td>
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<td>7</td>
<td>IP PC</td>
<td>Variant 1 plug/flange housing</td>
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<tr>
<td>8</td>
<td>IP PC</td>
<td>Var. 1 wall outlet &amp; coupler housing</td>
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<td>IP PC</td>
<td>Variant 4 plug/flange housing</td>
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<td>IP PC</td>
<td>Var. 4 wall outlet &amp; coupler housing</td>
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<td>Variant 5 plug/flange housing</td>
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<td>IP PC</td>
<td>Variant 14 plug/flange housing</td>
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<td>IP PC</td>
<td>Var. 14 fiber optic flange housing set</td>
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<td>IP PC</td>
<td>Variant 6 plug &amp; cable</td>
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<tr>
<td>15</td>
<td>IP PC</td>
<td>Variant 6 cable &amp; flange housing</td>
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<tr>
<td>16</td>
<td>IP PC</td>
<td>Var. 6 wall outlet &amp; coupler housing</td>
</tr>
<tr>
<td>17</td>
<td>IP PC</td>
<td>Var. 6 locking clamp / IP67 metal outlet</td>
</tr>
<tr>
<td>18</td>
<td>IP PC</td>
<td>Protective caps for IP67 housings</td>
</tr>
<tr>
<td>19</td>
<td>IP PC</td>
<td>Universal test jack housing for Steadytec inserts</td>
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<tr>
<td>20</td>
<td>RJ45 Plug</td>
<td>Field plug pro</td>
</tr>
<tr>
<td>21</td>
<td>RJ45 Plug</td>
<td>Field plug pro 360</td>
</tr>
<tr>
<td>22</td>
<td>RJ45 Plug</td>
<td>E-DAT Industry IP20 RJ45 field plug</td>
</tr>
<tr>
<td>23</td>
<td>RJ45 Plug</td>
<td>Color coding for E-DAT Industry IP20 RJ45 field plug</td>
</tr>
<tr>
<td>24</td>
<td>RJ45 Plug</td>
<td>E-DAT Industry IP20 RJ45 plug &amp; color coding</td>
</tr>
<tr>
<td>25</td>
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<td>Cable connector</td>
</tr>
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<td>26</td>
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<td>TH35 rail &amp; wall outlet</td>
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<td>27</td>
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<td>Flush mount built-in outlet</td>
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<tr>
<td>29</td>
<td>Standard rail</td>
<td>Standard rail REG for RJ45 jacks &amp; adapter</td>
</tr>
<tr>
<td>30</td>
<td>Standard rail</td>
<td>Dust protection covers &amp; Standard rail REG for fiber optic E2000</td>
</tr>
<tr>
<td>31</td>
<td>Standard rail</td>
<td>E-DAT Industry terminal rail TS35 RJ45</td>
</tr>
<tr>
<td>32</td>
<td>Standard rail</td>
<td>E-DAT Industry terminal rail TS35 fiber optic</td>
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<tr>
<td>33</td>
<td>Standard rail</td>
<td>E-DAT Industry terminal rail TS35 fiber optic &amp; USB</td>
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<tr>
<td>34</td>
<td>Standard rail</td>
<td>DIN rail adapter &amp; suitable 6 Port module frame</td>
</tr>
<tr>
<td>35</td>
<td>Standard rail</td>
<td>DIN rail adapter</td>
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<tr>
<td>36</td>
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<td>Standard rail</td>
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<td>38</td>
<td>Standard rail</td>
<td>Fiber optic front cover</td>
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<td>Standard rail</td>
<td>OpDAT REG Splice Distributor for fiber optic &amp; RJ45</td>
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<td>Industrial Ethernet</td>
<td>Overview M12 products</td>
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<td>44</td>
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<td>Cable and connection line</td>
</tr>
<tr>
<td>45</td>
<td>Ethernet Device</td>
<td>Industry switcher</td>
</tr>
</tbody>
</table>
### Industry cables/IP protected connectors

- High-quality pre-assembled patch or connection cables
- Different copper cable types possible
- Very large range of combination options thanks to the **STEADYTEC®** Fit-for-All principle
- IP20 up to IP67 solutions
- IP67 variants will be supplied with plug protection caps

#### Example

Connection cable AWG23/1 Cat.7 PUR S/FTP, 1-1 (T568A), C6Amodul – IP20, RJ45 field plug insert – V1 metal, length: 38 m

#### Part number key for further versions

<table>
<thead>
<tr>
<th>Cable type</th>
<th>Cable side A</th>
<th>Cable side B</th>
<th>Length</th>
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<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>XX</td>
<td>X</td>
</tr>
</tbody>
</table>

#### Inserts for IP67 plug housings

- **3** = RJ45 field plug insert
- **4** = RJ45 plug insert
- **O** = RJ45 field plug insert profinet

**IP20 plug**

- **1** = RJ45 plug
- **2** = RJ45 field plug black
- **M** = RJ45 field plug pro

**Inserts for IP67 plug housing**

- **5** = E-DAT insert field jack
- **6** = E-DAT insert field jack profinet
- **7** = E-DAT modul

**IP20 jacks**

- **8** = C6Amodul 180°
- **9** = C6Amodul K 180°
- **B** = C6Amodul 270°
- **D** = C6Amodul K 270°
- **K** = E-DAT modul K

**IP67 plug housing**

- **1M** = V1 metal
- **2M** = V1 metal bend protected
- **1K** = V1 plastic
- **2K** = V1 plastic bend protected
- **4K** = V4 plastic
- **5K** = V4 plastic bend protected
- **6M** = V5 metal
- **8M** = V14 metal

**Without plug housing**

- **00** = IP20

**IP67 cable coupler/wall outlet**

- **3Q** = V1 plastic cable coupler
- **3R** = V4 plastic cable coupler
- **3U** = V1 plastic wall outlet
- **3V** = V4 plastic wall outlet

**IP67 cable coupler/wall outlet**

- **3T** = V6 plastic cable coupler
- **3W** = V6 plastic wall outlet

---

Please note:

These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned.
The technology brand **STEADYTEC®** stands for pioneering connection technology in the field of data, energy and signal transmission. Created by the industry's top three companies, it provides the foundation for reliable, user-oriented and standard-compliant solutions, both in the office as well as in the harsh environment of industry.

Pursuant to the fit-for-all principle, you simply select the required housing and the desired material! You can choose between plastic and metal. Same colour point = possible combination.

---

**Plug inserts**

- E-DAT Industry RJ45 plug insert *
  - 1401500810-I
- E-DAT Industry RJ45 field plug insert profinet *
  - 1401400810PI
- E-DAT Industry RJ45 field plug insert *
  - 1401400810-I
- OpDAT Industry 2SC plug insert *
  - 1402500822-I (MM)
  - 1402600822-I (SM)
  - 1402700822-I (POF)
- OpDAT Industry 2LC plug insert *
  - 1402800820-I (MM)
  - 1402900820-I (SM)

**Plug housings**

- Industry IP67 V1 metal plug housing *
  - 1401015000ME
  - 1401025000ME (bp)
- Industry IP67 V1 plug housing *
  - 1401015002KE
  - 1401025002KE (bp)
- Industry IP67 V4 plug housing *
  - 1401045002KE
  - 1401055002KE (bp)
- Industry IP67 V5 metal plug housing *
  - 1401065000ME

**Flange housings**

- Industry IP67 V1 metal bulkhead *
  - 1401013300ME
- Industry IP67 V1 bulkhead *
  - 1401013302KE
- Industry IP67 V4 bulkhead *
  - 1401043302KE
- Industry IP67 V5 metal bulkhead *
  - 1401063300ME

**Flange inserts**

- E-DAT Industry RJ45 coupler insert *
  - 1401200810MI
- E-DAT Industry RJ45 field jack *
  - 1401100810MI (TIA-A)
  - 1401800810MI (TIA-B)
- OpDAT Industry SC-RJ/2SC adapter insert *
  - 1402100820MI (MM)
  - 1402K00820MI (SM)
- OpDAT Industry LC-D adapter insert *
  - 1402300820MI (Ph-Br) MM
  - 1402L00820MI (ceramic) SM
- E-DAT Industry USB 3.0 A coupler insert *
  - 1401U010812KI
- E-DAT Industry USB A coupler insert *
  - 1401U00812KI

---

* Components with **STEADYTEC®** reliable technology
**E-DAT Industry RJ45 plug insert Cat.6 Class EA**

- Cat.6 class EA plug to be mounted in IP67 plug housings of variants 1, 4, 5 and 14
- Compliance with class EA, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- Suitable for 10 GBit Ethernet(IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- Connection of AWG 27/7 - 24/7 and AWG 24/1 possible
- Solid copper wire diameter from 0.36 to 0.51 mm
- Solid copper wire diameter from 0.46 to 0.61 mm
- Conductor diameter 0.85 mm to 1.05 mm
- Cable jacket up to 7.3 mm
- Without lock lever
- Connection of crimp contacts and shield in one step using crimping tool
- Color may differ from figure

**E-DAT Industry RJ45 field plug insert Cat.5 Class D PROFINET**

- Cat.5 plug to be assembled in the field and mounted in IP67 plug housings of variants 1, 4, 5 and 14
- 100 MBit suitable according to IEEE 802.3
- Suitable for Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- 4-wire RJ45 plug for AWG 22 to be assembled in the field
- Connection of AWG 26/7 - 22/7, AWG 26/1 - 22/1 possible
- Solid copper wire diameter from 0.4 to 0.64 mm
- Stranded copper wire diameter from 0.48 to 0.76 mm
- Conductor diameter up to 1.6 mm
- Cable jacket from 5.5 to 8.5 mm
- Consists of only 2 parts
- Easy assembly - connection without special tools
- Zinc die-cast housing for industrial use
- Protected locking hook
- Can be used as test plug at IP67 end of variants 1, 4, 5, 6 and 14

**Dimensional drawing**

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1401500810-I</td>
<td></td>
<td>8(8) plug</td>
<td></td>
</tr>
<tr>
<td>1401400810PI</td>
<td>green</td>
<td>8(8) field plug</td>
<td>for Profinet plugs</td>
</tr>
</tbody>
</table>
E-DAT Industry RJ45 field plug insert
Cat.6 Class EA

- Cat.6 class EA plug to be assembled in the field and mounted in IP67 plug housings of variants 1, 4, 5 and 14
- Compliance with class EA to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- Suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- 8-wire RJ45 plug for AWG 22 to be assembled in the field
- Connection of AWG 26/7 - 22/7, AWG 26/1 - 22/1 possible
- Solid copper wire diameter from 0.4 to 0.64 mm
- Stranded copper wire diameter from 0.48 to 0.76 mm
- Conductor diameter up to 1.6 mm
- Cable jacket from 5.5 to 8.5 mm
- Consists of only 2 parts
- Easy assembly - connection without special tools
- Zinc die-cast housing for industrial use
- Can be used as test plug at IP67 end of variants 1, 4, 5, 6 and 14

- Variants: T568A, T568B, Industry
OpDAT Industry 2SC MM plug insert
- SC-RJ/2SC plug for mounting in IP67 plug housing of variants 1, 4 and 14
- compliance with EN 50173-1:2011-09 and ISO/IEC 24702 with regard to limit values for insertion and return loss
- convex pre-polished pin made of zirconium oxide ceramics
- plastic plug body
- nickel-plated zinc die-cast plug receptacle
- fiber fastened by means of adhering
- cable fastened by means of crimping to pin body and/or to plug receptacle for breakout and mini breakout cables
- suitable for connection to cables acc. to PROFINET specification
- min. scope for tension relief 100 N
- anti-bend sleeve and dust protection cover made of flame-retardant, halogen-free elastomer
- Service life: min. 500 plug-in cycles
- operating temperature -40 °C...+65 °C
- variants: SC-RJ/2SC (SM), SC-RJ/2SC (MM), SC-RJ/2SC (POF)

OpDAT Industry 2LC MM plug insert
- 2LC plug for mounting in IP67 plug housing of variants 1, 4 and 14
- compliance with EN 50173-1:2011-09 and ISO/IEC 24702 with regard to limit values for insertion and return loss
- convex pre-polished pin made of zirconium oxide ceramics
- flame-retardant and halogen-free plastic pin body
- nickel-plated zinc die-cast plug receptacle
- fiber fastened by means of adhering
- cable fastened by means of crimping to pin body and/or to plug receptacle for breakout and mini breakout cables
- min. scope for tension relief 100 N
- anti-bend sleeve made of flame-retardant, halogen-free elastomer
- Service life: min. 500 plug-in cycles
- operating temperature -40 °C to +70 °C
- variants: 2LC (SM), 2LC (MM)
IP protected connectors | RJ45 jack & coupler inserts

E-DAT Industry RJ45 coupler insert Cat.6 Class E

- Cat.6 class E RJ45 jack for mounting in IP67 flange housings of variants 1, 4, 5 and 14
- use for ingress protection IP65 in combination with Universal test jack
- compliance with class E to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- very compact design
- symmetrical structure; can be mounted in any position
- FS 2.8 grounding connection for equipotential bonding at both front ends
- increased resistance to vibrations and shocks due to 4 springs on the shield plates
- solid zinc die-cast housing

P/N | Color | Feature 1 | Feature 2
--- | --- | --- | ---
1401200810MI | metallike | 8(8) coupler | |

Dimensional drawing

---

E-DAT Industry RJ45 field jack insert Cat.6 Class E_568

- RJ45 jack Cat.6 class E_568 to be assembled in the field and mounted in IP67 flange housings of variants 1, 4, 5 and 14
- use for ingress protection IP65 in combination with Universal test jack
- compliance with class E_568 to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- no special tools required
- AWG 26/7 - 22/7, AWG 26/1 - 22/1 possible
- no protruding contours
- 2 x FS 2.8 mm grounding connection for equipotential bonding at cable end
- increased resistance to vibrations and shocks due to 4 springs on the shield plates
- consists of only 2 parts; easy to assemble
- solid zinc die-cast housing
- can be reconnected easily
- variants: pin assignment to T568A, T568B or PROFINET

P/N | Color | Feature 1 | Feature 2
--- | --- | --- | ---
1401100810MI | metallike | 8(8) T568A | |
1401800810MI | metallike | 8(8) T568B | |
**OpDAT Industry SC-RJ/2SC MM adapter insert**

- SC-RJ/2SC adapter
- Slotted ceramics sleeve for single mode applications
- Slotted metal sleeve (Ph-Br) for multi mode applications
- Conformity with relevant IEC framework specifications with regard to testing conditions and connector compatibility to connector version SC to IEC 61754-4, IEC 60874-14 and SC-RJ to IEC 61745-24, EN 50377-6-1
- Compliance with EN 50173-1:2011-09 and ISO/IEC 24702 with regard to limit values for insertion loss
- Flame-retardant and halogen-free plastic housing
- Flame-retardant and halogen-free dust cover
- In flange or wall outlet of var. 1 and 4 - suitable for integration
- Variant 14 only available in sets
- Service life: min. 500 plug-in cycles
- Operating temperature -40°C to +70°C
- Variants: blue (SM), beige (MM)

**OpDAT Industry LC-D MM adapter insert**

- LC-D adapter
- Slotted ceramics sleeve for single mode applications
- Slotted metal sleeve (Ph-Br) for multi mode applications
- Conformity with relevant IEC framework specifications with regard to testing conditions and connector compatibility to connector version LC to IEC 61754-20
- Compliance with EN 50173-1:2011-09 and ISO/IEC 24702 with regard to limit values for insertion loss
- Flame-retardant and halogen-free plastic housing
- Flame-retardant and halogen-free dust cover
- In flange or wall outlet of var. 1 and 4 - suitable for integration
- Variant 14 only available in sets
- Service life: min. 500 plug-in cycles
- Operating temperature -40°C to +70°C
- Variants: blue (SM), beige (MM)
E-DAT Industry USB A 2.0 adapter insert

- USB 2.0 coupler for converting USB connections or to connect two USB cables with USB-A connectors
- use for ingress protection IP67 in combination with flange var. 1, 4, 5 and 14
- use for ingress protection IP65 in combination with Universal test jack
- for service and test jacks complying with IP67
- jack A to jack A
- note: no IP67 connector available

P/N Color Feature 1 Feature 2
1401U00812KI black USB A coupler USB 2.0

E-DAT Industry USB A 3.0 adapter insert

- USB 3.0 coupler for converting USB connections or to connect two USB cables with USB-A connectors
- use for ingress protection IP67 in combination with flange var. 1, 4, 5 and 14
- use for ingress protection IP65 in combination with Universal test jack
- for service and test jacks complying with IP67
- jack A to jack A
- note: no IP67 connector available

P/N Color Feature 1 Feature 2
1401U10812KI black USB A coupler USB 3.0
Industry IP67 V1 metal plug housing
- plug housing with bayonet lock acc. to ISO/IEC 24702 and IEC 61076-3-106 var. 1
- IP67 protected housing to hold Industry plug inserts
- increased diameter range of 10 mm for connection of cable jackets
- resistant to welding sputter
- industry-compatible metal housing with improved durability
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- labeling on plug housing
- snap-on clip for color coding after assembly
- cable can be pushed through preassembled plug housing
- variants: plug housing, bend-protected plug housing

Industry IP67 V1 metal bulkhead
- flange with bayonet lock acc. to ISO/IEC 24702 and IEC 61076-3-106 var. 1
- easy to mount due to round wall recesses made with inserts for commercially available punch pliers
- mounting type, central screwing
- alternative mounting with 4 screws (M3), not included in scope of delivery
- mounting on front and back side
- industry-compatible metal housing with improved durability
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- grounding possible on RJ45 insert using 2.8 mm contact pins
- one version for all flanges

Dimensional drawing

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tbody>
<tr>
<td>1401015000ME</td>
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<tr>
<td>1401025000ME</td>
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<td>bend protection</td>
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<tr>
<td>1401013300ME</td>
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<td>metal</td>
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**IP protected connectors** | Variant 1 plug/flange housing

---

**Industry IP67 V1 plug housing**
- plug housing with bayonet lock acc. to ISO/IEC 24702 and IEC 61076-3-106 var. 1
- IP67 protected housing to hold Industry plug inserts
- increased diameter range of 10 mm for connection of cable jackets
- resistant to welding spatter
- industry-compatible plastic housing with improved durability
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- labeling on plug housing
- snap-on clip for color coding after assembly
- cable can be pushed through preassembled plug housing
- variants: plug housing, bend-protected plug housing

**Industry IP67 V1 bulkhead**
- flange with bayonet lock acc. to ISO/IEC 24702 and IEC 61076-3-106 var. 1
- easy to mount due to round wall recesses made with inserts for commercially available punch pliers
- mounting type, central screwing
- alternative mounting with 4 screws (M3), not included in scope of delivery
- mounting on front and back side
- industry-compatible plastic housing with improved durability
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- grounding possible on RJ45 insert using 2.8 mm contact pins
- one version for all flanges

---

**Dimensional drawing**

**Dimensional drawing**

---

**P/N** | **Color** | **Feature 1** | **Feature 2**
--- | --- | --- | ---
1401015002KE | black | unequipped | 
1401025002KE | black | unequipped | bend protection

**P/N** | **Color** | **Feature 1** | **Feature 2**
--- | --- | --- | ---
1401013302KE | black | unequipped | plastics
**E-DAT Industry IP67 V1 wall outlet, surface mounting + RJ45 field jack insert**

**Cat. 6 Class EA**

- RJ45 termination unit in flange housing with bayonet lock acc. to ISO/IEC 24702 and IEC 61076-3-106 standards, var. 1
- Compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- Suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UpoE) and HDBaseT
- IP67 protected housing
- AWG 26/1 - 22/7; AWG 26/1 - 22/1 possible
- Increased resistance to vibrations and shocks due to 4 springs on the shield plates
- No special tools required
- Possible surface-mounting in series
- Connection of RJ45 plugs available on the market (no IP protection)
- Easy, time-saving mounting
- Variants: pin assignment to T568A or T568B

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
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<th>Feature 2</th>
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<tr>
<td>140111012KE</td>
<td>black</td>
<td>8(8) field jack T568A</td>
<td>surface-mount</td>
</tr>
<tr>
<td>1401810012KE</td>
<td>black</td>
<td>8(8) field jack T568B</td>
<td>surface-mount</td>
</tr>
</tbody>
</table>

**E-DAT Industry IP67 V1 cable coupler + RJ45 field jack insert**

**Cat. 6 Class EA, T568A**

- RJ45 termination unit in flange housing with bayonet lock acc. to ISO/IEC 24702 and IEC 61076-3-106 standards, var. 1
- Compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- Suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UpoE) and HDBaseT
- IP67 protected housing
- AWG 26/1 - 22/7; AWG 26/1 - 22/1 possible
- Increased resistance to vibrations and shocks due to 4 springs on the shield plates
- No special tools required
- Can be used as cable coupler
- Connection of RJ45 plugs available on the market (no IP protection)
- Easy, time-saving mounting

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tr>
<td>1401115512KE</td>
<td>black</td>
<td>8(8) field jack T568A</td>
<td>cable coupler</td>
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</table>
Industry IP67 V4 plug housing

- plug housing with push-pull-lock acc. to ISO/IEC 24702 and IEC 61076-3-106 var. 4
- IP67 protected housing to hold Industry plug inserts
- increased diameter range of 10 mm for connection of cable jackets
- resistant to welding sputter
- industry-compatible plastic housing with improved durability
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- labeling on plug housing
- snap-on clip for color coding after assembly
- cable can be pushed through preassembled plug housing
- variants: plug housing, bend-protected plug housing

Industry IP67 V4 bulkhead

- flange with push-pull-lock acc. to ISO/IEC 24702 and IEC 61076-3-106 var. 4 and acc. to EN 50173-1:2011-09 as well as EN 50173-3:2011-09 standards
- easy to mount due to round wall recesses made with inserts for commercially available punch pliers
- mounting type, central screwing
- alternative mounting with 4 screws (M3), not included in scope of delivery
- mounting on front and back side
- industry-compatible housing with improved durability
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- grounding possible on RJ45 insert using 2.8 mm contact pins
- one version for all flanges

### P/N Color Feature 1 Feature 2

<table>
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<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tr>
<td>1401055002KE</td>
<td>metallike</td>
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<td>bend protection</td>
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<tr>
<td>1401043002KE</td>
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</table>
E-DAT Industry IP67 V4 AP + RJ45 field jack insert Cat.6 Class EA, T568A
- RJ45 termination unit in flange housing with push-pull-lock acc. to ISO/IEC 24702 and IEC 61076-3-106 standards, var. 4
- compliance with class EA to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- IP67 protected housing
- AWG 26/7 - 22/7; AWG 26/1 - 22/1 possible
- increased resistance to vibrations and shocks due to 4 springs on the shield plates
- no special tools required
- possible surface-mounting in series
- connection of RJ45 plugs available on the market (no IP protection)
- easy, time-saving mounting

<table>
<thead>
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<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tbody>
<tr>
<td>1401140012KE</td>
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<td>8(8) field jack</td>
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<td>T568A</td>
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</table>

Dimensional drawing

E-DAT Industry IP67 V4 cable coupler + RJ45 field jack insert Cat.6 Class EA, T568A
- RJ45 termination unit in flange housing with push-pull-lock acc. to ISO/IEC 24702 and IEC 61076-3-106 standards, var. 4
- compliance with class EA to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- IP67 protected housing
- AWG 26/7 - 22/7; AWG 26/1 - 22/1 possible
- increased resistance to vibrations and shocks due to 4 springs on the shield plates
- no special tools required
- can be used as cable coupler
- connection of RJ45 plugs available on the market (no IP protection)
- easy, time-saving mounting
- variants: marking of conductor assignment to T568A or T568B

<table>
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<td>8(8) field jack</td>
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<td>1401045512KE</td>
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Dimensional drawing
IP protected connectors | Variant 5 plug/flange housing

**Industry IP67 V5 metal plug housing**
- plug housing with clamp lock acc. to ISO/IEC 24702 and IEC 61076-3-106 var. 5
- IP67 protected housing to hold Industry plug inserts
- increased diameter range of 10 mm for connection of cable jackets
- resistant to welding sputter
- industry-compatible metal housing with improved durability
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- snap-on clip for color coding after assembly
- cable can be pushed through preassembled plug housing
- matching plug inserts: E-DAT Industry RJ45 field plug insert, E-DAT Industry RJ45 plug insert

**Industry IP67 V5 metal bulkhead**
- flange with clamp lock acc. to IEC 61076-3-106 Var. 5
- IP67 protected housing for receiving E-DAT Industry flange inserts
- easy to mount due to standard fastening by means of two screws (M3), not included in scope of delivery
- industry-compatible housing with improved durability
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- grounding possible on RJ45 insert using 2.8 mm contact pins
- matching inserts: E-DAT Industry RJ45 field jack insert (T568A, T568B or Profinet), E-DAT Industry RJ45 coupler insert or E-DAT Industry USB coupler insert

### Dimensional drawing

#### Dimensional drawing

**Table:**

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<th>Feature 2</th>
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</tr>
</tbody>
</table>
E-DAT Industry IP67 V14 plug housing for RJ45 unequipped

- plug housing with push-pull-lock acc. to ISO/IEC 24702 and IEC 61076-3-117 var. 14
- IP67 protected housing to hold E-DAT Industry plug inserts
- increased diameter range of 10 mm for connection of cable jackets
- resistant to welding sputter
- industry-compatible metal housing with improved durability
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- snap-on clip for color coding after assembly
- cable can be pushed through preassembled plug housing
- matching plug inserts E-DAT Industry RJ45 field plug insert, E-DAT Industry RJ45 plug insert
- variants: plug housing, bend-protected plug housing

P/N | Color | Feature 1 | Feature 2
--- | --- | --- | ---
14010850C0ME | metallic | unequipped for RJ45 |  
14010850F0ME | metallic | unequipped for FO |  

E-DAT Industry IP67 V14 plug housing for RJ45 unequipped

- flange with push-pull-lock acc. to ISO/IEC 24702 and IEC 61076-3-117 var. 14
- IP67 protected housing for receiving E-DAT Industry flange inserts
- easy to mount due to standard fastening by means of two screws (M3), not included in scope of delivery
- mounting from the front
- industry-compatible metal housing with improved durability
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- grounding possible on RJ45 insert using 2.8 mm contact pins
- matching inserts: E-DAT Industry RJ45 field jack insert (T568A, T568B or Profinet), E-DAT Industry RJ45 coupler insert or E-DAT Industry USB coupler insert

P/N | Color | Feature 1 | Feature 2
--- | --- | --- | ---
14010833C0MN | metallic | unequipped for RJ45 |  
14010833F0MN | metallic | unequipped for FO |  

Dimensional drawing
OpDAT Industry IP67 V14 bulkhead normative mounting + LC-D SM adapter insert

- flange with push-pull-lock acc. to ISO/IEC 24702 and IEC 61076-3-117 var. 14
- fiber optic cable adapter made of plastic
- slotted zirconium oxide ceramics sleeve (ZrO2) for single mode applications
- slotted metal sleeve (Ph-Br) for multi mode applications
- compliance with EN 50173-1:2011-09 and ISO/IEC 24702 with regard to limit values for insertion loss
- flame-retardant and halogen-free plastic housing and adapter dust covers
- easy to mount due to standard fastening by means of two screws (M3)
- mounting from the front
- industry-compatible metal housing with improved durability
- flammability class as per UL 94V-0
- improved resistance to chemical substances

- variants:
  - LC-D blue (SM), beige (MM)
  - SC-RJ/2SC blue (SM), beige (MM)

P/N Color Feature 1 Feature 2
--- --- --- ---
1402L93320ME metallike LC-D (ceramic) SM
1402K93320ME metallike 25C (SM)
1402393320ME metallike LC-D (MM)
1402193320ME metallike 25C (MM)

OpDAT Industry IP67 V14 bulkhead central screw mounting + LC-D SM adapter insert

- flange with push-pull-lock acc. to ISO/IEC 24702 and IEC 61076-3-117 var. 14
- fiber optic cable adapter made of plastic
- slotted zirconium oxide ceramics sleeve (ZrO2) for single mode applications
- slotted metal sleeve (Ph-Br) for multi mode applications
- compliance with EN 50173-1:2011-09 and ISO/IEC 24702 with regard to limit values for insertion loss
- flame-retardant and halogen-free plastic housing and adapter dust covers
- easy to mount due to round wall recesses made with inserts for commercially available punch pliers
- mounting from the front
- industry-compatible metal housing with improved durability
- flammability class as per UL 94V-0
- improved resistance to chemical substances

- variants:
  - LC-D blue (SM), beige (MM)
  - SC-RJ/2SC blue (SM), beige (MM)

P/N Color Feature 1 Feature 2
--- --- --- ---
1402L83320ME metallike LC-D (ceramic) SM
1402K83320ME metallike 25C (SM)
1402383320ME metallike LC-D (MM)
1402183320ME metallike 25C (MM)
**E-DAT Industry IP67 V6 plug**

- Cat.6 class E6 connector in connector housing to IEC 61076-3-106 var. 6
- Compliance with class E6 to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- Suitable for 10 GBit Ethernet(IEEE 802.3an) and Remote Powering(PoE, PoE plus and UPoE) and HDBaseT
- Complies with ingress protection IP67 when plugged in
- AWG 27/7 - 24/7 and AWG 24/1 connection possible
- Solid copper wire diameter from 0.36 to 0.51 mm
- Stranded copper wire diameter from 0.46 to 0.61 mm
- Conductor diameter from 0.85 to 1.05 mm
- Cable jacket up to 7.3 mm can be connected
- Large 360° shield contact
- Locking clip can also be upgraded in its installed state
- Protected against unintentional opening by means of locking clip (also colored)
- Crimping of the internal and external conductors with professional crimp pliers in one process
- Professional crimping tool available in the tools section

**E-DAT Industry patch cord V6 IP67 - IP67**

- Fully shielded Cat.6 patch cable AWG 26/7 S/FTP with PUR cable sheath
- RJ45-IP67-V6 connector shielded on both ends
- 1:1 assignment
- Compliance with class E to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- Yellow cable, gray connector
- Cable colors may differ
- Other lengths available
- Variants: 1, 2, 5, 10, 15 and 20 m

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<tbody>
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<th>Feature 1</th>
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<td>IP67-IP67</td>
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<tr>
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<td>Yellow</td>
<td>2.0 m</td>
<td>IP67-IP67</td>
</tr>
<tr>
<td>141N113K13K50</td>
<td>Yellow</td>
<td>5.0 m</td>
<td>IP67-IP67</td>
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<td>10.0 m</td>
<td>IP67-IP67</td>
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<td>15.0 m</td>
<td>IP67-IP67</td>
</tr>
<tr>
<td>141N113K13KB0</td>
<td>Yellow</td>
<td>20.0 m</td>
<td>IP67-IP67</td>
</tr>
</tbody>
</table>
**IP protected connectors** | Variant 6 cable & flange housing

**E-DAT Industry patch cord V6 IP67 - RJ45**
- fully shielded Cat.6 patch cable AWG 26/7 S/FTP with PUR cable sheath
- 1 x RJ45 and 1 x RJ45-IP67-V6 connector, shielded
- 1:1 assignment
- compliance with class E to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- yellow cable, gray connector
- cable colors may differ
- other lengths available
- variants: 1, 2, 3, 5, 10, 15 and 20 m

---

**P/N** | **Color** | **Feature 1** | **Feature 2**
---|---|---|---
141N113K10010 | yellow | 1.0 m | IP67-RJ45
141N113K10020 | yellow | 2.0 m | IP67-RJ45
141N113K10050 | yellow | 5.0 m | IP67-RJ45
141N113K100A0 | yellow | 10.0 m | IP67-RJ45
141N113K100A5 | yellow | 15.0 m | IP67-RJ45
141N113K100B0 | yellow | 20.0 m | IP67-RJ45

---

**E-DAT Industry IP67 V6 EbM**
- for mounting individual modules in Modul design
- IP67 plug face pursuant to IEC 61076-3-106 (Variant 6)
- connection of RJ45 plugs available on the market (no IP protection)
- easy mounting
- versions with and without solid counterplate made of zinc die-cast (also available as accessory)
- color: RAL 7035 (light gray)
- 13094130-E: mounting set consisting of solid counterplate with 4 screws
- not suited to E-DAT industry modules and adapter
- variants: with and without mounting set

---

**P/N** | **Color** | **Feature 1** | **Feature 2**
---|---|---|---
1309413003-E | lightgray | w/o mounting set | Module cut-out
1309413203-E | lightgray | with mounting set | Module cut-out
E-DAT Industry IP67 V6 AP, 1 port Cat.6A - C6Amodul
- RJ45 termination unit C6Amodul in flange housing to ISO/IEC 24702 and IEC 60176-3-106 variant 6
- certified to GHMT Cat.6, re-embedded PVP
- component testing for Cat.6 to ISO/IEC 11801 Ed. 2.2:2011-06, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified to GHMT
- compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173:2011-09
- tested: component up to 600 MHz, link up to 800 MHz
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UpOE) and HDBaseT
- easy to install connection of data lines AWG 24/1 to 22/1 (solid wire) and AWG 26/7 to 22/7 (stranded wire) to insulation displacement connectors (IDC)
- intelligent cable management in stuffer cap - also suitable for heavily twisted cables
- conductor assignment to T568A and T568B is directly printed on the stuffer cap
- complies with ingress protection IP67 when plugged in
- plug face according to IEC 61076-3-106 (variant 6)
- large 360° shield contact
- connection of RJ45 plugs available on the market (no IP protection)
- mounting without special tools; strain relief directly snapped on to stuffer cap
- color: light gray RAL 7035

P/N  Color  Feature 1  Feature 2
130951003-E  8(8) modul  T568A  surface-mount

E-DAT Industry IP67 V6 cable coupler, 1 port Cat.6A - C6Amodul
- RJ45 termination unit C6Amodul in flange housing to ISO/IEC 24702 and IEC 60176-3-106 variant 6
- certified to GHMT Cat.6, re-embedded PVP
- component testing for Cat.6 to ISO/IEC 11801 Ed. 2.2:2011-06, DIN EN 50173:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified to GHMT
- compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173:2011-09
- tested: component up to 600 MHz, link up to 800 MHz
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UpOE) and HDBaseT
- easy to install connection of data lines AWG 24/1 to 22/1 (solid wire) and AWG 26/7 to 22/7 (stranded wire) to insulation displacement connectors (IDC)
- intelligent cable management in stuffer cap - also suitable for heavily twisted cables
- conductor assignment to T568A and T568B is directly printed on the stuffer cap
- complies with ingress protection IP67 when plugged in
- plug face according to IEC 61076-3-106 (variant 6)
- large 360° shield contact
- can be used as cable coupler (KK) in variable applications
- connection of RJ45 plugs available on the market (no IP protection)
- mounting without special tools; strain relief directly snapped on to stuffer cap
- color: light gray RAL 7035

P/N  Color  Feature 1  Feature 2
1309515003-E  8(8) modul  T568A  cable-coupler
Locking clamp for IP67 V6 plug

- protection against unintentional opening
- locking clip can also be upgraded in its installed state
- variants: light gray, yellow, blue, green, red

<table>
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<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<td>130906-V6-I</td>
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<tr>
<td>130906-V7-I</td>
<td>green</td>
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<tr>
<td>130906-V8-I</td>
<td>red</td>
<td>plastics</td>
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</tbody>
</table>

E-DAT Industry IP67 V1 2 port metal outlet

- IP67 wall outlets for flexible connection of networks in industrial areas
- 2 complete ports with flange covers and cable glands
- with the output directions pointing straight downwards (with cable feed from above) or output direction to right (with cable feed from above)
- metal flange with bayonet to ISO/IEC 24702 and IEC 61076-3-106 standards, var. 1
- unequipped, without inserts
- for wall and floor mounting
- aluminum housing made of Al-Si 12
- solid powder coating in RAL 7001
- dimensions, 2 ports: 124 x 78 x 57 mm (without flanges and cable glands)

<table>
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<td>1401040620ME</td>
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<td>1401060320ME</td>
<td>gray</td>
<td>2 port straight</td>
<td>unequipped</td>
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Industry IP67 V1 plug protective cap
- good ingress protection also if not plugged in due to tight IP67 protective cap
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- captive, attached protective cap
- variants: protective cap for plug or flange

<table>
<thead>
<tr>
<th>P/N</th>
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<th>Feature 1</th>
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</thead>
<tbody>
<tr>
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<td>plastic</td>
<td>for plugs</td>
</tr>
<tr>
<td>1401018012KI</td>
<td>black</td>
<td>plastic</td>
<td>for flange</td>
</tr>
</tbody>
</table>

Industry IP67 V4 plug protective cap
- good ingress protection also if not plugged in due to tight IP67 protective cap
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- captive, attached protective cap
- grip to remove it
- variants: protective cap for plug or flange

<table>
<thead>
<tr>
<th>P/N</th>
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<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1401048002KI</td>
<td>black</td>
<td>plastic</td>
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<tr>
<td>1401048102KI</td>
<td>black</td>
<td>plastic</td>
<td>for flange</td>
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Industry IP67 V5 metal plug protective cap
- good ingress protection also if not plugged in due to tight IP67 protective cap
- flammability class as per UL 94V-0
- improved resistance to chemical substances
- captive, attached protective cap
- variants: protective cap for plug or flange

E-DAT Industry IP67 V14 plug protection cap
- good ingress protection also if not plugged in due to tight IP67 protective cap
- flammability class as per UL 94V-0
- high resistance to chemical substances
- captive, attached protective cap
- grip to remove it
- variants: protective cap for plug or flange

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<td>metal</td>
<td>for plugs</td>
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<td>1401068100MI</td>
<td>gray</td>
<td>metal</td>
<td>for flange</td>
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<td>for plugs</td>
</tr>
<tr>
<td>1401088102KI</td>
<td>black</td>
<td>plastic</td>
<td>for flange</td>
</tr>
</tbody>
</table>
E-DAT Industry universal test jack IP65, unequipped

- for programming and setting parameters of an installation, a computer is accessed via standardized interfaces, such as RJ45 and USB. For industrial PCs (IPC), however, these interfaces are located in the interior of the switch cabinet.
- practical service interface for safe and flexible access to the interior of the switch cabinet
- faster, easier and more targeted start-up, service work, monitoring and system expansions
- suitable for switch cabinet walls, distributor panels and switchboards
- mounting with central screw joint in standard round hole of just 22 mm
- ingress protection IP65
- captive sealing plug
- very easy handling
- unequipped - without inserts
- matching inserts: E-DAT Industry RJ45 field jack insert (T568A, T568B or Profinet), E-DAT Industry RJ45 coupler insert or E-DAT Industry USB coupler insert

**P/N Color Feature 1 Feature 2**

<table>
<thead>
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<th>Feature 1</th>
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<tbody>
<tr>
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<td>unequipped</td>
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</table>
**C6 RJ45 field plug pro**

- Cat.6, class E, RJ45 plug to be assembled in the field
- Fully shielded and multi-port capable
- Straight (180°) cable feed
- Easy assembly - connection without special tools
- Wire connection: stranded wire AWG 27/7 to 22/7, wire diameter from 0.46 to 0.76 mm
- Wire connection: solid wire AWG 26/1 to 22/1, wire diameter from 0.4 to 0.64 mm
- Transmission characteristics Cat.6, per ISO/IEC 11801 Ed.2.2:2011
- Compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- Suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus, UPoE and 4PPoE) and HDBaseT
- Degree of protection IP20
- For cable jacket diameter from 5.5 to 10.5 mm
- Zinc die-cast housing for industrial use consists of only 2 parts
- Strain relief by latching clip directly on the stuffer cap
- Protected locking hook
- Reconnectable

**C5 RJ45 field plug pro 2P PROFINET**

- Cat.5 class D RJ45 plug, 2 pairs, to be assembled in the field
- Fully shielded and multi-port capable
- Straight (180°) cable feed
- Easy assembly - connection without special tools
- Wire connection: stranded wire AWG 27/7 to 22/7, wire diameter from 0.46 to 0.76 mm
- Wire connection: solid wire AWG 26/1 to 22/1, wire diameter from 0.4 to 0.64 mm
- Transmission characteristics Cat.5, per ISO/IEC 11801 Ed.2.2:2011
- Compliance with class D, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- 100 MBit suitable according to IEEE 802.3
- Suitable for Remote Powering (PoE and PoE plus) and HDBaseT
- Degree of protection IP20
- For cable jacket diameter from 5.5 to 10.5 mm
- Zinc die-cast housing for industrial use consists of only 2 parts
- Strain relief by latching clip directly on the stuffer cap
- Protected locking hook
- Reconnectable

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>130E405032-E</td>
<td>black</td>
<td>RJ45 field plug</td>
<td>180°</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<th>P/N</th>
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<th>Feature 1</th>
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</tr>
</thead>
<tbody>
<tr>
<td>130E405032PE</td>
<td>green</td>
<td>Profinet</td>
<td>180°</td>
</tr>
<tr>
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</tr>
</tbody>
</table>
**C6A RJ45 field plug pro 360**

- Cat.6A, class EA RJ45 plug to be assembled in the field
- Fully shielded and multi-port capable
- Variable (360°) cable feed, freely selectable
- Easy assembly - connection without special tools
- Wire connection: stranded wire AWG 27/7 to 22/7, wire diameter from 0.46 to 0.76 mm
- Wire connection: solid wire AWG 26/1 to 22/1, wire diameter from 0.4 to 0.64 mm
- Transmission characteristics Cat.6A per ISO/IEC 11801 Ed.2.2:2011-06
- Compliance with class E, to ISO/IEC 11801 Ed.2:2011-06, DIN EN 50173-1:2011-09
- Suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus, 4PoE) and HDBaseT
- Degree of protection IP20
- For cable jacket from 5.5 to 10.5 mm
- Zinc die-cast housing for industrial use
- Strain relief by latching clip directly on the stuffer cap
- Protected locking hook
- Reconnectable

**C5 RJ45 field plug pro 2P 360 PROFINET**

- Cat.5 class D RJ45 plug, 2 pairs, to be assembled in the field
- Fully shielded and multi-port capable
- Variable (360°) cable feed, freely selectable
- Easy assembly - connection without special tools
- Wire connection: stranded wire AWG 27/7 to 22/7, wire diameter from 0.46 to 0.76 mm
- Wire connection: solid wire AWG 26/1 to 22/1, wire diameter from 0.4 to 0.64 mm
- Transmission characteristics Cat.5 per ISO/IEC 11801 Ed.2.2:2011-06
- Compliance with class D to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- 100 MBit suitable according to IEEE 802.3
- Suitable for Remote Powering (PoE and PoE plus) and HDBaseT
- Degree of protection IP20
- For cable jacket from 5.5 to 10.5 mm
- Zinc die-cast housing for industrial use
- Strain relief by latching clip directly on the stuffer cap
- Protected locking hook
- Reconnectable
**E-DAT Industry IP20 RJ45 field plug**

- multi-port Cat.6 class E, plug to be assembled in the field
- compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- 8-wire RJ45 plug for AWG 22 to be assembled in the field
- connection of AWG 26/7 - 22/7; AWG 26/1 - 22/1 possible
- solid copper wire diameter from 0.4 to 0.64 mm
- stranded copper wire diameter from 0.48 to 0.76 mm
- conductor diameter up to 1.6 mm
- cable jacket from 5.5 to 8.5 mm
- consists of only 2 parts
- easy assembly - connection without special tools
- during mounting, the cable is mechanically fastened to the stuffer cap
- easy to actuate strain relief
- strain relief can be snapped on after assembly as color coding
- zinc die-cast housing for industrial use
- protected locking hook
- can be used as test plug on IP67 protected jacks of variants 1, 4, 5, 6 and 14

- variants: T568A, T568B, Industry

**E-DAT Industry RJ45 field plug Profinet**

- multi-port Cat.5 plug to be assembled in the field
- 100 MBit suitable according to IEEE 802.3an
- suitable for Remote Powering (PoE and PoE plus) and HDBaseT
- 4-wire RJ45 plug for AWG 22 to be assembled in the field
- connection of AWG 26/7 - 22/7; AWG 26/1 - 22/1 possible
- solid copper wire diameter from 0.4 to 0.64 mm
- stranded copper wire diameter from 0.48 to 0.76 mm
- conductor diameter up to 1.6 mm
- cable jacket from 5.5 to 8.5 mm
- consists of only 2 parts
- easy assembly - connection without special tools
- during mounting, the cable is mechanically fastened to the stuffer cap
- easy to actuate strain relief
- strain relief can be snapped on after assembly as color coding
- zinc die-cast housing for industrial use
- protected locking hook
- can be used as test plug on IP67 protected jacks of variants 1, 4, 5, 6 and 14

---

**Dimensional drawing**

**P/N** | **Color** | **Feature 1** | **Feature 2**
---|---|---|---
1401405012-I | black | 8(8) field plug | two parts

---

**Dimensional drawing**

**P/N** | **Color** | **Feature 1** | **Feature 2**
---|---|---|---
1401405012PI | green | 8(4) field plug | Profinet
**Industry color coding field plug**

- colored, easy to actuate strain relief for E-DAT Industry IP20 RJ45 field plug
- can be mounted after assembling the plug
- variants: white, light gray, orange, blue, yellow, green

### Dimensional drawing

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<td>1401009101-1</td>
<td>orange</td>
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<tr>
<td>1401009103-1</td>
<td>light gray</td>
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<td></td>
</tr>
<tr>
<td>1401009104-1</td>
<td>white</td>
<td>plastics</td>
<td></td>
</tr>
<tr>
<td>1401009105-1</td>
<td>yellow</td>
<td>plastics</td>
<td></td>
</tr>
<tr>
<td>1401009106-1</td>
<td>blue</td>
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</tr>
<tr>
<td>1401009107-1</td>
<td>green</td>
<td>plastics</td>
<td></td>
</tr>
</tbody>
</table>
E-DAT Industry IP20 RJ45 plug

- multi-port Cat.6 class E, plug
- compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 Gbit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- AWG 24/7 - 24/7 and AWG 26/1 - 24/1 connection possible
- solid copper wire diameter from 0.36 to 0.51 mm
- stranded copper wire diameter from 0.46 to 0.61 mm
- conductor diameter from 0.85 to 1.05 mm
- cable jacket up to 7.3 mm can be connected
- connection of crimp contacts and shield in one step using crimping tool
- variants with and without bend protection
- colored bend protection optionally available
- trumpet-shaped bending protection of the connection cable
- can be used as test plug on IP67 protected jacks of variants 1, 4, 5, 6 and 14
- not supplied in partial quantities
- variants: with bend protection / PU: 10 pcs, without bend protection / PU: 100 pcs

IP20 plug bend protection

- molded snagless anti-bend sleeve for E-DAT Industry IP20 RJ45 plug
- trumpet-shaped bending protection of the connection cable
- retrofitting possible
- effective grip contours
- variants: white, light gray, blue, yellow, green, black, orange
Cable connector class FA

- cable connector for field assembly Class FA for 8 wire cables
- to connect / extend / repair / relocate copper data cables up to Cat. 7A
- compliance to Class FA up to 1000 MHz according to ISO/IEC 11801 Ed.2.2:2011-06 in connection with Cat.7A copper cables
- GHMT certified to ISO/IEC 11801 Ed.2.2:2011-06 and IEC 61156-5 Ed.2.1:2012-12
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- compact design: diameter 16.8 mm x length 64 mm
- IP67 protected housing in combination with IP67 appropriate cables
- refined zinc die-cast housing
- easy and fast assembly without special tools
- shield connection and strain relief integrated
- easy connection of data cables AWG 26/1 to 22/1 (solid wire) and AWG 26/7 to 22/7 (stranded wire) to insulation displacement connectors (IDC)
- solid copper wire diameter 0.4 to 0.64 mm
- stranded copper wire diameter 0.48 to 0.76 mm
- conductor diameter up to 1.6 mm
- suitable for cables with an overall diameter of 5.0 to 9.7 mm
- fully shielded version according to DIN EN 50173-1

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Cat.7 cable connector

- for connecting/extending data cables up to Cat.7A
- class E to ISO/IEC 11801 Ed.2.2:2011-06 is complied with in combination with Cat.6, Cat.6A, Cat.7 and Cat.7A cables and Cat.6 connectors
- connection of data lines AWG 26/1 to 22/1 (solid wire)
- cable feed from one or two sides
- cable sharing, i.e. splitting one 8-wire cable into two 4-wire cables (one cable tie required each on input and output side)
- fully shielded metal housing
- strain relief and separate captive 360° shield connection
- 2 bore holes for wall mounting

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**P/N | Color | Feature 1 | Feature 2**
--- | --- | --- | ---
130863-02-E | metallike | shielded | metal

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**P/N | Color | Feature 1 | Feature 2**
--- | --- | --- | ---
130863-E | metallike | 4x2 | 
130863-01-E | metallike | 4x2 IP | IP67
Extension box APL Keystone

- for connection of the termination point line network (APL), equipped with C6, modul K 180°
- suitable for mounting on support rail in counter panel of general power supply below cover in room for additional applications to VDE-AR-N 4101:2011-08
- failsafe contact with integrated dust protector slide
- for connection of an MUC communication module
- certified to GHMT Cat.6, re-embedded PVP
- component testing for Cat.6, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified to GHMT
- compliance with class E_{90} up to 500 MHz to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- tested: components up to 600 MHz, link up to 800 MHz
- for 10 GBit Ethernet (IEEE 802.3an)
- suitable for Power over Ethernet (PoE, PoE plus and UPoE)
- connection of data lines AWG 26/1 to 22/1 (solid wire) and AWG 26/7 to 22/7 (stranded wire) to insulation displacement connectors (IDC)
- plug direction of module inclined at 90° to top hat rail
- strain relief snapped on to stuffer cap
- with label window for enclosed identification labels
- cover parts in pure white RAL 9010, glossy surface
- variants: APL, APL with red patch cord (0.5 m)

Modul wall outlet APFL 2 port pure white unequipped

- flat surface-mounted housing for two individual modules in Modul design (E-DAT modul, C6, modul)
- label window for identification labels (labels included in the delivery)
- mounting in underfloor false floors
- colored coding of the ports (red/blue)
- ideal for implementing consolidation points

### Dimensional drawing

**Modular wall outlets | TH35 rail & wall outlet**
Modular wall outlets

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1309460003-I</td>
<td>gray</td>
<td>AP 2 port unequipped</td>
<td>Module cut-out</td>
</tr>
<tr>
<td>1309460003KI</td>
<td>gray</td>
<td>AP 2 port unequipped</td>
<td>Keystone module cut-out</td>
</tr>
</tbody>
</table>

Dimensional drawing

- lockable flush-mounted IP44 outlet, keyed alike with two keys (identical locks and keys)
- cover closes completely, even when patch cables are plugged in
- for two individual modules in Modul design (not suitable for OpDAT modules)
- ball-impact resistant according to DIN 18032
- can be operated with standard patch cables
- clearly visible label window
- bottom section of housing can be turned 180°, with cable feed possible from top and bottom
- with space to install the required spare cable lengths
- gray

E-DAT modul IP44SG UP housing pure white unequipped

<table>
<thead>
<tr>
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<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1309461002-I</td>
<td>pure white</td>
<td>UP 2 Port unequipped</td>
<td>Module cut-out</td>
</tr>
<tr>
<td>1309461003-I</td>
<td>pure white</td>
<td>UP 2 Port unequipped</td>
<td>Module cut-out</td>
</tr>
</tbody>
</table>

Dimensional drawing

- lockable IP44 outlet, with two keys with lock with instantaneous locking action (identical locks and keys)
- cover closes completely, even when patch cables are plugged in
- UP housing for sill duct installation, or in conjunction with the flush-mounted UP installation outlet
- for two individual modules in Modul design
- ball-throw proof according to DIN 18032
- can be operated with standard patch cables
- clearly visible nomenclature panel
- variants: pure white, gray
Flush mount built-in outlet gray

- UP installation outlet for flush mounting of the IP44SG UP housing

<table>
<thead>
<tr>
<th>P/N</th>
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<th>Feature 1</th>
<th>Feature 2</th>
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<tbody>
<tr>
<td>1309441903-1</td>
<td>gray</td>
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<td></td>
</tr>
</tbody>
</table>
E-DAT modul IP20 AP Housing

- IP20 surface-mounted housing for two individual modules in Modul design
- Identical to E-DAT modul IP44 AP but, due to the opening in the housing cover, it remains closed when patch cables are plugged in
- Cable feed for one or two cables from the top
- Break-proof
- Gray color

IP44 surface mounting housing unequipped

- IP44 flat surface-mounted housing for two individual modules in Modul design
- IP44 protection only when closed (without plugged in patch cable)
- Cable feed for one or two cables from the top
- Break-proof
- Gray color

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>1309450003-E</td>
<td>gray</td>
<td>AP 2 Port unequipped</td>
<td>Module cut-out</td>
</tr>
<tr>
<td>1309430003-E</td>
<td>gray</td>
<td>AP 2 port unequipped</td>
<td>Module cut-out</td>
</tr>
<tr>
<td>1309430003KE</td>
<td>gray</td>
<td>AP 2 port unequipped</td>
<td>Keystone module cut-out</td>
</tr>
</tbody>
</table>

Dimensional drawing

- Dimensions: 87 [3.425], 57 [2.244], 75 [2.95], 58 [2.283]
REGplus IP20 C6_Amodul

- termination unit for mounting on TH35 rails to DIN EN 60715 in electrical distribution panels for home and industrial installations
- equipped with C6_Amodul 180° RJ45 individual module
- cable feed 45° from the top, plug direction 45° downwards
- certified to GHMT Cat.6, re-embedded PVP
- component testing for Cat.6, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified to GHMT
- compliance with class E_{90} up to 500 MHz to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- tested: component up to 600 MHz, link up to 800 MHz
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus, UPoE and 4PPoE) and HDBaseT
- easy to install connection of 2 to 4 pair data lines
- to insulation displacement connectors (IDC)
- conductor assignment to TS568A and TS568B is directly printed on the stuffer cap
- migration to 25G-systems without special tools
- width of 1HP allows mounting up to 12 REG plus in standard electrical distribution panels
- when mounted as a device of protection class I, the equipotential bonding is realized directly over the top hat rail by means of an integrated equipotential plate. This has to be connected to the equipotential bonding of the building by means of a bonding terminal.
- a cover protects the module against direct contact. If mounted in distributor panels with protective insulation, protection class II is guaranteed. In this case, it is necessary to remove the equipotential bonding spring.
- integrated dust protection cover (also colored)

E-DAT modul REG 1 Port IP20 light gray

- termination unit for mounting on TH35 rails to DIN EN 60715 in electrical distribution panels for home and industrial installations
- equipped with individual E-DAT modul RJ45 module
- cable feed 45° from the top, plug direction 45° downwards
- compliance with class EA to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- tested: Link up to 500 MHz
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- easy to install connection of 2 to 4 pair data lines
- AWG 26/1 - 22/1 and stranded wires with 7 copper conductors AWG 26/7 to BTR 8-fold insulation displacement connectors (IDC)
- marking of conductor assignment to TS568A or TS568B
- easy and fast insertion of wire pairs in E-DAT modul stuffer cap
- width of 1HP allows mounting up to 12 REG in standard electrical distribution panels
- when mounted as a device of protection class I, the equipotential bonding is realized directly over the top hat rail by means of an integrated equipotential plate. This has to be connected to the equipotential bonding of the building by means of a bonding terminal.
- a cover protects the module against direct contact.
- If mounted in distributor panels with protective insulation, protection class II is guaranteed. In this case, it is necessary to remove the equipotential bonding spring.
- integrated dust protection cover (also colored)
Dust protection covers for Modul patch panels / subway / REG

- for color service coding of patch fields, subway underfloor units and E-DAT modul REG
- suitable for: C6 modul patch fields, E-DAT modul patch field 24x8, subway underfloor units, module wall outlet 2 port APFL as well as E-DAT modul REG and Modul REGplus
- variants: yellow, blue, green, red

REGplus IP20 E2000 DC H&S

- termination with an E2000 DC adapter for mounting on TH35 rail to DIN EN 60715
- slotted zirconium oxide ceramics sleeve (ZrO2)
- high material stability and surface quality and long service life
- service life: min. 1000 plug cycles
- cable feed 45° from the top, plug direction 45° downwards
- width of 1HP allows mounting up to 12 REG in standard electrical distribution panels
- to install the adapter, the existing dust protection cover must be removed
- variants: blue (SM), green (SM APC), beige (MM)

P/N  | Color | Feature 1 | Feature 2
--- | --- | --- | ---
816979-0105-I | yellow | 1 port |  |
816979-0106-I | blue | 1 port |  |
816979-0107-I | green | 1 port |  |
816979-0108-I | red | 1 port |  |

P/N  | Color | Feature 1 | Feature 2
--- | --- | --- | ---
130F5B7003-E | light gray | E2000 DC | SM
130F5C7003-E | light gray | E2000 DC | SM APC
130F5A7003-E | light gray | E2000 DC | MM
E-DAT Industry terminal rail TS35 field jack insert

- termination unit for mounting on TH35 rails to DIN EN 60715 in electrical distribution panels for home and industrial installations
- equipped with E-DAT Industry RJ45 field jack insert
- vertical plugging direction, 90° to rail
- compliance with class E, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- easy to install connection of 2 to 4 pair data lines AWG 24/1 - 22/1 and stranded wires with 7 copper conductors AWG 26/7 to BTR 8-fold insulation displacement connectors (IDC)
- width of 1HP allows mounting up to 12 units in a standard electrical distribution panel
- when mounted as a device of protection class I, the equipotential bonding is realized directly over the top hat rail by means of a switchable integrated equipotential spring. This has to be connected to the equipotential bonding of the building by means of a bonding terminal
- variants: pin assignment to T568A, T568B or PROFINET

E-DAT Industry terminal rail TS35 coupler insert

- termination unit for mounting on TH35 rails to DIN EN 60715 in electrical distribution panels for home and industrial installations
- equipped with E-DAT Industry RJ45 coupler insert
- vertical plugging direction, 90° to rail
- compliance with class E to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- increased resistance to vibrations and shocks due to 4 springs on the shield plates
- width of 1HP allows mounting up to 12 units in a standard electrical distribution panel
- when mounted as a device of protection class I, the equipotential bonding is realized directly over the top hat rail by means of a switchable integrated equipotential spring. This has to be connected to the equipotential bonding of the building by means of a bonding terminal

<table>
<thead>
<tr>
<th>P/N</th>
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<th>Feature 1</th>
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</thead>
<tbody>
<tr>
<td>1401106113KE</td>
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<td>T568A</td>
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<td>1401806113KE</td>
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<td>T568B</td>
<td></td>
</tr>
<tr>
<td>1401906113KE</td>
<td>light gray</td>
<td>Profinet</td>
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</tr>
</thead>
<tbody>
<tr>
<td>1401206113KE</td>
<td>light gray</td>
<td>coupler</td>
<td></td>
</tr>
</tbody>
</table>
OpDAT Industry terminal rail TS35 fiber optic

**LC-D**
- Termination unit with LC-D adapter on TH35 rail to DIN EN 60715
- Slotted zirconium oxide ceramics sleeve (ZrO2) for single mode applications
- Slotted metal sleeve (Ph-Br) for multi mode applications
- Width of 1HP allows mounting up to 12 units in a standard electrical distribution panel
- Vertical plugging direction, 90° to rail
- Variants: SM, MM

**SC-D**
- Termination unit with SC-D adapter on TH35 rail to DIN EN 60715
- Slotted zirconium oxide ceramics sleeve (ZrO2) for single mode applications
- Slotted metal sleeve (Ph-Br) for multi mode applications
- Width of 1HP allows mounting up to 12 units in a standard electrical distribution panel
- Vertical plugging direction, 90° to rail
- Variants: SM, MM

**Dimensional drawing**

<table>
<thead>
<tr>
<th>P/N</th>
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<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1402L06113KE</td>
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<td>LC-D (ceramic)</td>
<td>SM</td>
</tr>
<tr>
<td>1402P06113KE</td>
<td>light gray</td>
<td>LC-D (Ph-Br)</td>
<td>MM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1402Q06113KE</td>
<td>light gray</td>
<td>SC-D (ceramic)</td>
<td>SM</td>
</tr>
<tr>
<td>1402P06113KE</td>
<td>light gray</td>
<td>SC-D (Ph-Br)</td>
<td>MM</td>
</tr>
</tbody>
</table>
OpDAT Industry terminal rail TS35 fiber optic & USB

- termination unit with SC-RJ/2SC adapter on TH35 rail to DIN EN 60715
- slotted zirconium oxide ceramics sleeve (ZrO2) for single mode applications
- slotted metal sleeve (Ph-Br) for multi mode applications
- width of 1HP allows mounting up to 12 units in a standard electrical distribution panel
- vertical plugging direction, 90° to rail
- variants: SM, MM

E-DAT Industry terminal rail TS35 USB

- termination unit for mounting on TH35 rails to DIN EN 60715 in electrical distribution panels for home and industrial installations
- equipped with USB-A coupler
- USB 2.0
- vertical plugging direction, 90° to rail
- width of 1HP allows mounting up to 12 units in a standard electrical distribution panel
DIN rail adapter

- top hat rail adapter for mounting 6-fold 1RU distributor modules in different distributor systems with top hat rail (TH35)
- matching 6-fold modules: C6_modul 6 port, E-DAT C6, 6 port, E-DAT module 6 port, E-DAT C6 6 port, OpDAT 6M

C6_modul 6 port 180°M 1RU

- module frame with 6 individual C6_modul 180°
- certified to GHMT Cat.6, re-embedded PVP
- component testing for Cat.6, to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified to GHMT
- compliance with class E, up to 500 MHz to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- tested: component up to 600 MHz, link up to 800 MHz
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus, UPoE and 4PPoE) and HDBaseT
- connection of data lines AWG 26/1 to 22/1 (solid wire) and AWG 26/7 to 22/7 (stranded wire) to insulation displacement connectors (IDC)
- migration to 25G-systems without special tools
- strain relief directly snapped on to stuffer cap of C6_modul
- for mounting in surface-mounted housing, top hat rail adapter or 1RU module frame
- optional strain relief using cable ties
- grounding bolt M6 x 10 with nut and lock washer

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
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<tr>
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<td>for 6 port modules</td>
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<tr>
<td>1308990110-E</td>
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<td>6 port equipped</td>
<td>C6_modul</td>
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<tr>
<td>130922-03-E</td>
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<td>E-DAT modul</td>
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<td>130922-00-E</td>
<td>stainless steel</td>
<td>6 port unequipped</td>
<td>Module cut-out</td>
</tr>
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</table>
DIN rail adapter mini
- to fasten heavy devices on a top hat rail (TH35)
- fastening screws are not included in the delivery

DIN rail adapter mini FS
- to fasten light devices, such as wall outlets, on a top hat rail (TH35)
- packing unit: adapter and screw (M4x6)
- two top hat rail adapters mini FS are required for fastening one wall outlet

Dimensional drawing

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
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<tr>
<td>1308990112-I</td>
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<td>metal</td>
<td></td>
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</tbody>
</table>
OpDAT REGplus 2xSC-D MM (ceramic), 1xM20, with crimp splice holder

- splice distributor for TH35 rail
- equipped with SC-D (MM) adapters made of zinc die-casting
- slotted ceramic sleeve for multi mode applications
- with fiber reservoir
- custom-labeled identification strips
- various mounting versions on rail
- splice tray with crimp splice holder
- front plate can be completely removed
- cable feed from top or bottom, straight or inclined, with M20 cable gland (up to 2 possible)
- feed of preassembled cables is possible
- one cable gland M20 with strain relief included in the delivery
- housing cover fastening by means of just one captive screw
- unoccupied adapter recesses are closed with special blind plugs
- variants: equipped with 2, 3, 4 or 6 SC-D adapters

<table>
<thead>
<tr>
<th>P/N</th>
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<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>150240C20210E</td>
<td>metallike</td>
<td>2xSC-D (ceramic)</td>
<td>MM</td>
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<tr>
<td>150240C20310E</td>
<td>metallike</td>
<td>2xSC-D (ceramic)</td>
<td>MM</td>
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<tr>
<td>150240C20410E</td>
<td>metallike</td>
<td>2xSC-D (ceramic)</td>
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<td>150240C20610E</td>
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<td>MM</td>
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</table>

Dimensional drawing

OpDAT REGplus 2xSC/ST-D MM (ceramic), 1xM20, with crimp splice holder

- splice distributor for TH35 rail
- equipped with SC-D/ST-D (MM) adapters made of zinc die-casting
- slotted ceramic sleeve for multi mode applications
- with fiber reservoir
- custom-labeled identification strips
- various mounting versions on rail
- splice tray with crimp splice holder
- front plate can be completely removed
- cable feed from top or bottom, straight or inclined, with M20 cable gland (up to 2 possible)
- feed of preassembled cables is possible
- one cable gland M20 with strain relief included in the delivery
- housing cover fastening by means of just one captive screw
- unoccupied adapter recesses are closed with special blind plugs
- variants: equipped with 2, 3, 4 or 6 SC-D/ST-D adapters (SC-D interior, ST-D exterior)
- please note: if you use preassembled cables with ST plugs, use the unequipped version of the OpDAT REG plus. The ST-D adapters required in this case are available as accessory. Before mounting the adapters in the housing, plug the preassembled ST plugs in the adapters for reasons of space.

<table>
<thead>
<tr>
<th>P/N</th>
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<th>Feature 1</th>
<th>Feature 2</th>
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</thead>
<tbody>
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<td>2xSC/ST-D (Ph-Br)</td>
<td>MM</td>
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<td>150240C30310E</td>
<td>metallike</td>
<td>2xSC/ST-D (Ph-Br)</td>
<td>MM</td>
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<tr>
<td>150240C30410E</td>
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<td>2xSC/ST-D (Ph-Br)</td>
<td>MM</td>
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<tr>
<td>150240C30610E</td>
<td>metallike</td>
<td>2xSC/ST-D (Ph-Br)</td>
<td>MM</td>
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</tbody>
</table>
OpDAT REGpro24 splice distributor
- splice distributor for TH35 rail without front cover
- to mount pigtailed or pre-assembled installation cables
- gray housing
- with crimp splice holder for up to 24 splices
- installation of two shrink splice holders on splice tray is possible
- with fiber reservoir
- custom-labeled identification strips
- fastening on top hat rail by means of very sturdy top hat rail holder
- various mounting versions on rail
- for different front plates 3RU/7HP
- cable feed from top or bottom, straight or inclined, with M20 cable gland (up to 2 possible)
- width: 61 mm, height: 128 mm, depth: 132.5 mm (from rail, without adapter)
- one cable gland M20 with strain relief included in the delivery
- housing cover fastening by just one screw

OpDAT REGpro splice distributor
- splice distributor for TH35 rail without front cover
- gray housing
- with or without splice tray with crimp splice holder for up to 12 splices
- installation of two shrink splice holders on splice tray is possible
- with fiber reservoir
- custom-labeled identification strips
- fastening on top hat rail by means of very sturdy top hat rail holder
- various mounting versions on rail
- for different front plates 3RU/7HP
- cable feed from top or bottom, straight or inclined, with PG11 cable gland (up to 2 possible)
- width: 50 mm, height: 128 mm, depth: 132.5 mm (from rail, without adapter)
- feed of preassembled cables is possible
- one cable gland PG11 with strain relief included in the delivery
- housing cover fastening by means of just one screw
- variants: with and without splice tray
- Please note: not all front plates 3RU/7HP available on the market can be used for OpDAT REGpro. If preassembled cables are used, we recommend the version without splice tray.

<table>
<thead>
<tr>
<th>P/N</th>
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<th>Feature 1</th>
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<tbody>
<tr>
<td>15024A10-24-E</td>
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<td>unequipped</td>
<td>w/o splice tray</td>
</tr>
<tr>
<td>15024A10S-E</td>
<td>gray</td>
<td>unequipped</td>
<td>w/o splice tray</td>
</tr>
<tr>
<td>15024A105-E</td>
<td>gray</td>
<td>unequipped</td>
<td>with splice tray</td>
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</table>
OpDAT REGpro splice tray with shrink splice holder
- splice tray for OpDAT REGpro
- with shrink splice holder for up to 12 splices

OpDAT REG strain relief M20
- additional tension relief for OpDAT REGplus and/or OpDAT REGpro splice distributor
- M20 screw connection
- with tension relief for Kevlar
- additional strain relief for each splice distributor possible

<table>
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<tbody>
<tr>
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<td>Splice tray</td>
<td>for shrink splice</td>
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</tbody>
</table>

<table>
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<th>P/N</th>
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<tbody>
<tr>
<td>150240M20Z-E</td>
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</table>
Standard rail | Fiber optic front cover

Front cover OpDAT REGpro LC-Q
- front plate 3RU/7HP LC-Q adapter
- slotted zirconium oxide ceramics sleeve (ZrO2) for single mode applications
- slotted metal sleeve (Ph-Br) for multi mode applications
- suitable for mounting in OpDAT REGpro and OpDAT REGpro24
- gray, powder-coated steel sheet
- variants: 6xLC-Q (blue), 3xLC-Q (violet), 6xLC-Q (violet), 6xLC-Q (aqua), 3xLC-Q (beige), 6xLC-Q (beige)

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<th>Feature 1</th>
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<tbody>
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<td>6xLC-Q (ceramic)</td>
<td>9/125 (OS2)</td>
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<tr>
<td>15024A7903-E</td>
<td>violet</td>
<td>3xLC-Q (ceramic)</td>
<td>50/125 (OM4)</td>
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<tr>
<td>15024A7906-E</td>
<td>violet</td>
<td>6xLC-Q (ceramic)</td>
<td>50/125 (OM4)</td>
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<tr>
<td>15024A8706-E</td>
<td>aqua</td>
<td>6xLC-Q (ceramic)</td>
<td>50/125 (OM3)</td>
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<tr>
<td>15024A7203-E</td>
<td>beige</td>
<td>3xLC-Q (Ph-Br)</td>
<td>9/125 (OS2) APC</td>
</tr>
<tr>
<td>15024A7206-E</td>
<td>beige</td>
<td>6xLC-Q (Ph-Br)</td>
<td>9/125 (OS2) APC</td>
</tr>
</tbody>
</table>

Front cover OpDAT REGpro 6xSC-D
- front plate 3RU/7HP with 6 SC-D adapter
- slotted zirconium oxide ceramics sleeve (ZrO2) for single mode applications
- slotted metal sleeve (Ph-Br) for multi mode applications
- suitable for mounting in OpDAT REGpro and OpDAT REGpro24
- gray, powder-coated steel sheet

Dimensional drawing
**Front cover OpDAT REGpro 12xST**

- front plate 3RU/7HP with 12 ST adapter
- slotted zirconium oxide ceramics sleeve (ZrO2) for single mode applications
- slotted metal sleeve (Ph-Br) for multi mode applications
- suitable for mounting in OpDAT REGpro and OpDAT REGpro24
- gray, powder-coated steel sheet
- variants: SM, MM

**Front cover OpDAT REGpro 12xE2000**

- front plate 3RU/7HP with 12 E2000 adapters
- slotted ceramics sleeve for single mode applications
- suitable for mounting in OpDAT REG pro and OpDAT REG S
- gray, powder-coated steel sheet
- variants: equipped with 12 E2000 adapters, each in blue (OS2) or E2000 APC adapters, each in green (OS2)
OpDAT REG Splice Distributor for pre-terminated cables

- Very compact splice distributor for TH35 rail
- Flat design with an inclined outlet (connections facing downward) and a large cabling space
- Great ease of use even with high cable channels in the immediate surroundings
- To mount pigtails or pre-terminated installation cables (VIKs)
- Modular design: housing, equipped front plate and splice tray are to be ordered separately
- Visible area with label strip
- The rail bracket can be mounted in different positions to the housing to allow for several mounting variants.
- Cable feed from top or bottom with a strain relief M20 (available as an option).
- Front plate (3RU/7HP) with LC-Quad, SC-Duplex, ST or E2000 adapters. Other types available on demand.
- 3 variants available:
  - OpDAT REG S V = for pre-terminated cables
  - OpDAT REG S Splice C = for 12 splices with crimp splice holders
  - OpDAT REG S Splice S = for 12 splices with shrink splice holders
- Particularly solid rail bracket
- With one captive screw of the cover
- Suitable for mixed equipment with fiber optic and copper based technology
- With a mounted blind plate it can be used on the rail as splice box only or also as a transit splice box with up to 12 (24) fibers

Modul module frame 3RU, 7HP 6 port stainless steel unequipped

- Stainless steel module frame for 6 individual modules in Modul design
- Strain relief at the module
- 3RU 7HP module frame with very short dimensions
- Mounts in OpDAT REGpro, OpDAT REGpro24, OpDAT CM, OpDAT REG S or 3HP module frame
- Additional strain relief possible by cable tie
- Grounding possible by flat plug

<table>
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<tr>
<th>P/N</th>
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<th>Feature 1</th>
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<tbody>
<tr>
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<td>VIK</td>
</tr>
<tr>
<td>15024B10S-S</td>
<td>gray</td>
<td>unequipped</td>
<td>For shrink splice holder</td>
</tr>
<tr>
<td>15024B10S-E</td>
<td>gray</td>
<td>unequipped</td>
<td>For crimp splice holder</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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</thead>
<tbody>
<tr>
<td>130B10E2E-E</td>
<td>stainless steel</td>
<td>6 port unequipped</td>
<td>Module cut-out</td>
</tr>
<tr>
<td>130B20E2E-E</td>
<td>stainless steel</td>
<td>6 port unequipped</td>
<td>Keystone module cut-out</td>
</tr>
</tbody>
</table>
PCB Jacks

4-pole, D-coded

Jack M12
angled 90°, solderable, rear wall mount
P/N: MMT471A115
1.5-2.5 mm wall thickness
P/N: MMT471A115-0001
2.5-4.0 mm wall thickness
P/N: MMT471A115-0002
4.0-5.0 mm wall thickness

Jack M12
solderable, rear wall mount
P/N: MMW370A1A1

Jack M12
solderable, front mount
P/N: MMW360A1A1

8-pole, X-coded

Jack M12 in a set
solderable, rear wall mount
P/N: MMT371A3B5-0001

Jack M12
solderable, front mount
P/N: MMT361A315

Jack M12 in a set
solderable, front mount
P/N: MMT361A315-0001

Jack insert for PC boards M12
solderable
P/N: MMT060A315 (green)
P/N: MMT060A315-0001 (black)

IP67
8-pole, X-coded

Jack M12
solderable, front mount, potted
P/N: MMT361A315-0009
IP67 in unmated form

Jack M12
solderable, rear wall mount, potted
P/N: MMT371A3B5-0009
IP67 in unmated form

Jacks & plugs for field assembly / Feed-through adapters M12 X-coded

M12 jack
8-pole, X-coded, IP67
for field assembly
P/N: MMF881A315

M12 jack
8-pole, X-coded, IP67
for field assembly, with flange
P/N: MMF881A315-0001

M12 plug
8-pole, X-coded, IP67
for field assembly, straight
P/N: MNF881A315-0001

M12 plug
4-pole, D-coded, IP67, for field assembly
P/N: MNF881A115

Feed-through adapter M12
8-pole, X-coded to RJ45 straight
P/N: MWN811A415

Feed-through adapter M12
8-pole, X-coded to RJ45 angled
P/N: MWN911A415

Complementary products

C6a RJ45 field plug pro
P/N: 130E405032-E

C6a RJ45 field plug pro 360
P/N: 130E405042-E

CS RJ45 field plug pro 2P
P/N: 130E405032PE

CS RJ45 field plug pro 2P 360
P/N: 130E405042PE

Cable connector Classe F4a
P/N: 130863-02-E
Cables

4-pole, D-coded

- Connection cable M12
  P/N: 142M1D10xxx

- Connection line M12
  P/N: 142M1D11xxx

- Connection line M12/RJ45
  P/N: 142M4D15xxx

- Connection cable M12 angled
  P/N: 142M1D90xxx

- Connection line M12 angled-M12 straight
  P/N: 142M1D19xxx

- Connection line M12/RJ45
  P/N: 142M4D25xxx

8-pole, X-coded

- Connection cable M12
  P/N: 142M2X10xxx

- Connection line M12
  P/N: 142M2X11xxx

- Connection line M12/RJ45
  P/N: 142M2X15xxx

- Connection cable M12 angled
  P/N: 142M2X90xxx

- Connection line M12 angled/M12 straight
  P/N: 142M2X1Axxx

- Connection line for drag chain connector
  M12 jack
  P/N: 142M6X10xxx

- Connection line for torsion connector
  M12 plug/plug
  P/N: 142M7X10xxx

- Connection line for torsion connector
  M12 jack/plug
  P/N: 142M7X21xxx

- Connection line for drag chain connector
  M12 jack
  P/N: 142M6X11xxx

- Connection line for drag chain connector
  M12 jack/plug
  P/N: 142M6X21xxx

- Connection line for torsion connector
  M12 plug/plug
  P/N: 142M7X11xxx

LEGEND

Standard cable length

- xxx = 010 (1.0 m)
- xxx = 050 (5.0 m)
- xxx = 100 (10.0 m)

Other cable lengths on request.

Position of coding at X-coded

P/N with:

- 9 = 315°
- A = 45°
- B = 135°
- C = 225°
Ethernet M12 | D- & X-coded jacks

Jack M12 solderable 90° 4-pole D-coded IP67 <2.5 mm wall thickness
- Ethernet M12 jack for PC boards
- 4-pole, D-coded as per IEC 61076-02-101
- angled 90°
- solderable THR
- side entry
- protection degree IP67 in mated condition
- suitable for applications in the railway industry
- Variants: suitable for a wall thickness up to 2.5 mm, up to 4 mm, up to 5 mm

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
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<td>D-coded 90°</td>
<td>&lt;2.5 mm</td>
</tr>
<tr>
<td>MMT471A115-0001</td>
<td>metallike</td>
<td>D-coded 90°</td>
<td>&lt;4 mm</td>
</tr>
<tr>
<td>MMT471A115-0002</td>
<td>metallike</td>
<td>D-coded 90°</td>
<td>&lt;5 mm</td>
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</table>

Jack M12 solderable through hole mounting 4-pole D-coded
- Ethernet M12 female connector for PC boards
- 4-pole, D-coded as per IEC 61076-02-101
- solderable
- through hole mounting
- green PC board insert for THR
- suitable for applications in the railway industry

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MMW370A1A1</td>
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<td>D-coded</td>
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</tbody>
</table>

Dimensional drawing
Jack M12 solderable front mounting 4-pole D-coded

- Ethernet M12 female connector for PC boards
- 4-pole, D-coded as per IEC 61076-02-101
- solderable
- front mounting
- green PC board insert for THR
- suitable for applications in the railway industry

P/N | Color | Feature 1 | Feature 2
--- | --- | --- | ---
MMW360A1A1 | metallike | D-coded |  

Jack M12 solderable 8-pole X-coded IP67, potted

- Ethernet M12 jack Cat.6, for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- for 10 GBit Ethernet (IEEE 802.3an)
- wave solderable
- top entry
- green PC board insert
- protection degree IP67 in unmated condition
- suitable for applications in the railway industry

P/N | Color | Feature 1 | Feature 2
--- | --- | --- | ---
MMT361A315-0009 | metallike | X-coded | potted
Jack M12 solderable 8-pole X-coded IP67, rear wall mounting, potted
- Ethernet M12 jack Cat.6, for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- rear wall mounting
- for 10 GBit Ethernet (IEEE 802.3an)
- wave solderable
- top entry
- protection degree IP67 in unmated condition

Jack M12 solderable 8-pole X-coded IP67, rear wall mounting, in individual parts
- Ethernet M12 jack Cat.6, for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- rear wall mounting
- for 10 GBit Ethernet (IEEE 802.3an)
- solderable, THR
- top entry
- protection degree IP67 in mated condition
- in individual parts

<table>
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<tr>
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<td>X-coded</td>
<td>in individual parts</td>
</tr>
</tbody>
</table>
Jack M12 solderable 8-pole X-coded IP67
- Ethernet M12 jack Cat.6, for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- for 10 GBit Ethernet (IEEE 802.3an)
- solderable, THR
- top entry
- green PC board insert
- suitable for applications in the railway industry

Jack M12 solderable 8-pole X-coded IP67, in individual parts
- Ethernet M12 jack Cat.6, for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- for 10 GBit Ethernet (IEEE 802.3an)
- solderable, THR
- top entry
- green PC board insert
- in individual parts
- suitable for applications in the railway industry

<table>
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<th>Feature 2</th>
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<tr>
<td>MMT361A315</td>
<td>metallike</td>
<td>X-coded</td>
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</tr>
</tbody>
</table>

Dimensional drawing
Ethernet M12 | D- & X-coded jacks

PC board insert M12 solderable 8-pole X-coded, green
- Ethernet M12 jack insert for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- for 10 GBit Ethernet (IEEE 802.3an)
- solderable (THR)
- plug-in direction vertical
- variants: green or black contact carrier

Jack M12 solderable 8-pole X-coded IP67, rear wall mounting
- Ethernet M12 jack Cat.6, for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- rear wall mounting
- for 10 GBit Ethernet (IEEE 802.3an)
- solderable, THR
- top entry
- protection degree IP67 in mated condition

Dimensional drawing

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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Dimensional drawing

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|   |   |   |   |
Jack M12 solderable 90° 8-pole X-coded IP67 < 2.5 mm wall thickness

- Ethernet M12 jack Cat.6, for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- angled 90°
- for 10 GBit Ethernet (IEEE 802.3an)
- solderable THR
- side entry
- protection degree IP67 in mated condition
- suitable for applications in the railway industry

- variants: suitable for a wall thickness up to 2.5 mm, up to 4 mm, up to 5 mm

PC board insert M12 solderable 90° 8-pole X-coded, green

- Ethernet M12 jack insert for PC boards 90°
- 8-pole, X-coded as per IEC 61076-02-109
- for 10 GBit Ethernet (IEEE 802.3an)
- solderable (THR)
- side entry
- green PC board insert

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<th>Feature 2</th>
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<td>MMT060A315-0002</td>
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Dimensional drawing
Jack M12 solderable 90° 8-pole X-coded IP67 wall thickness, in individual parts

- Ethernet M12 jack Cat.6, for PC boards
- 8-pole, X-coded as per IEC 61076-02-109
- angled 90°
- for 10 GBit Ethernet (IEEE 802.3an)
- solderable THR
- side entry
- protection degree IP67 in mated condition
- in individual parts
- suitable for applications in the railway industry

- variants: suitable for a wall thickness up to 2.5 mm, up to 4 mm, up to 5 mm

M12 Jack X-coded IP67, field assembly

- 8-pole M12 jack for field assembly Cat.6, per IEC/PAS 61076-2-109
- suitable for 10 GBit as per IEEE 802.3an
- AWG 26/1-22/1, AWG 26/7-22/7 can be connected
- solid copper wire diameter 0.4 to 0.64 mm
- stranded copper wire diameter 0.48 to 0.76 mm
- wire diameter with isolation up to 1.6 mm
- overall cable diameter from 5.0 to 9.7 mm
- jack consists of only two parts
- easy assembly without special tools
- industry-compatible zinc die-cast housing
- suitable for applications in the railway industry

<table>
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<th>Feature 2</th>
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<tr>
<th>P/N</th>
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<tbody>
<tr>
<td>MMF881A315</td>
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</table>
Ethernet M12 | M12 connectors for field assembly

M12 Jack X-coded IP67, field assembly with flange
- 8-pole M12 jack for field assembly Cat.6a
- per IEC/PAS 61076-2-109 with flange
- suitable for 10 GBit as per IEEE 802.3an
- AWG 26/1 to 22/1, AWG 26/7 to 22/7 can be connected
- solid copper wire diameter 0.4 to 0.64 mm
- stranded copper wire diameter 0.48 to 0.76 mm
- wire diameter with isolation up to 1.6 mm
- overall cable diameter from 5.0 to 9.7 mm
- jack consists of only two parts
- easy assembly without special tools
- industry-compatible zinc die-cast housing
- suitable for applications in the railway industry

M12 field plug X-coded, straight
- M12 Cat.6a, X-coded plug based on IEC PAS 61076-2-109 and suitable for field assembly
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- for a 8-wire M12 plug for AWG 22
- connection of AWG 26/1 - 22/1, AWG 26/7 - 22/7 possible
- solid copper wire diameter from 0.4 to 0.64 mm
- stranded copper wire diameter from 0.48 to 0.76 mm
- core diameter up to 1.6 mm
- cable jacket from 5.0 to 9.7 mm
- consists of only 2 parts
- easy assembly - connection without special tools
- zinc die-cast housing for industrial use
- suitable for applications in the railway industry

Dimensional drawing

<table>
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<th>Feature 1</th>
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Dimensional drawing

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<tr>
<td>MNF881A315-0001</td>
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</table>
M12 field plug D-coded, straight

- M12 Cat.5 D-coded plug based on IEC PAS 61076-2-101 and suitable for field packaging
- M12 field plug for AWG 22
- for a 4 wire cable connection
- 4-wire M12 plug for AWG 22 to be assembled in the field
- connection of AWG 26/7 - 22/7, AWG 24/1 - 22/1 possible
- solid copper wire diameter from 0.4 to 0.64 mm
- stranded copper wire diameter from 0.48 to 0.76 mm
- conductor diameter up to 1.6 mm
- cable jacket from 5.0 to 9.7 mm
- consists of only 2 parts
- easy assembly - connection without special tools
- zinc die-cast housing for industrial use
- suitable for applications in the railway industry

Dimensional drawing

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<tr>
<td>MNF881A115</td>
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## Panel feed through adapters M12 X-coded to RJ45 for electrical cabinets - straight
- Panel feed-through adapter M12 to RJ45 for control cabinets
- M12 jack x-coded, IP67, per IEC/PSE 61076-2-109
- RJ45 jack, IP20, per IEC 60603-7-51
- Suitable for 10 GBit per IEEE802.3an
- Cat.6a
- Plug-in direction: straight
- Solid refined zinc die-cast housing
- Suitable for applications in the railway industry

## Panel feed through adapters M12 X-coded to RJ45 for electrical cabinets - angled
- Panel feed-through adapter M12 to RJ45 for control cabinets
- M12 connector x-coded, IP67, per IEC/PSE 61076-2-109
- RJ45 jack, IP20, per IEC 60603-7-51
- Suitable for 10 GBit per IEEE802.3an
- Cat.6a
- Angled
- Solid housing refined with zinc die-casting
- Suitable for applications in the railway industry

### Dimensional drawing

#### Panel feed through adapters M12 X-coded to RJ45 for electrical cabinets - straight

<table>
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<th>Feature 2</th>
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#### Panel feed through adapters M12 X-coded to RJ45 for electrical cabinets - angled

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<tbody>
<tr>
<td>MWN911A415</td>
<td>metallike</td>
<td>X-coded</td>
<td>90°</td>
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</tbody>
</table>
**Connection line M12 plug straight - M12 plug straight 4-pole, D-coded**

- shielded M12 Ethernet connection line
- Cat.5e, 4-pole, D-coded to IEC 61076-2-101
- side 1: M12-plug, straight
- side 2: M12-plug, straight
- extrusion-coated cable on M12 connectors
- 2x2xAWG22/7, tinned with plastic foil
- inner sheath FRNC, aluminum-coated plastic foil
- overall shield: tinned copper braid, approx. 85% covered
- Profinet (WS-GE-BL-OR) wiring
- green cable, PUR
- standard variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

**Connection line M12 plug straight - RJ45 plug straight AWG 26 4-pole, D-coded**

- shielded M12 to RJ45 Ethernet connection line
- Cat.5e, 4-pole, D-coded (IEC 61076-2-101)
- side 1: M12 plug, straight
- side 2: RJ45 plug, straight
- extrusion-coated cable on M12 and RJ45 connector
- stranded wires 4x1xAWG26/19
- overall shield tinned copper braid
- pin assignment per Profinet
- green cable, PUR
- standard variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

---

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
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<td>142M1D11050</td>
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<td>142M1D11100</td>
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<td>142M4D15020</td>
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<td>142M4D15050</td>
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<tr>
<td>142M4D15100</td>
<td>green</td>
<td>10 m</td>
<td></td>
</tr>
</tbody>
</table>
Ethernet M12 | Cable and connection line

Connection cable M12 plug angled - free line end 4-pole, D-coded
• shielded M12 Ethernet connection cable
• Cat.5e, 4-pole, D-coded (IEC 61076-2-101)
• side 1: M12-plug, angled
• side 2: free line end
• extrusion-coated cable on M12 connector
• 2x2xAWG22/7, tinned with plastic foil
• inner sheath FRNC, aluminum-coated plastic foil
• overall shield: tinned copper braid, approx. 85% covered
• Profinet (WS-GE-BL-OR) wiring
• green cable, PUR
• variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
• other cable lengths on request

Connection line M12 plug straight - M12 plug angled 4-pole, D-coded
• shielded M12 Ethernet connection line
• Cat.5e, 4-pole, D-coded (IEC 61076-2-101)
• side 1: M12-plug, straight
• side 2: M12-plug, angled
• extrusion-coated cable on M12 connectors
• 2x2xAWG22/7, tinned with plastic foil
• inner sheath FRNC, aluminum-coated plastic foil
• overall shield: tinned copper braid, approx. 85% covered
• Profinet (WS-GE-BL-OR) wiring
• green cable, PUR
• standard variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
• other cable lengths on request

P/N | Color | Feature 1 | Feature 2
--- | --- | --- | ---
142M1D90010 | green | 1 m
142M1D90020 | green | 2 m
142M1D90050 | green | 5 m
142M1D90100 | green | 10 m

P/N | Color | Feature 1 | Feature 2
--- | --- | --- | ---
142M1D190010 | green | 1 m
142M1D190020 | green | 2 m
142M1D190050 | green | 5 m
142M1D190100 | green | 10 m
Connection line M12 jack straight - RJ45 plug straight 4-pole, D-coded
- shielded M12-jack to RJ45-plug Ethernet connection line
- Cat.5e, 4-pole, D-coded (IEC 61076-2-101)
- side 1: M12 jack, straight
- side 2: RJ45 plug, straight
- extrusion-coated cable on connectors
- stranded wires 1x4xAWG26/19
- overall shield: tinned copper braid
- pin assignment per Profinet
- green cable, PUR
- standard variants: 1.0 m, 2.0 m, 3.0 m, 5.0 m, 10.0 m
- other cable lengths on request

Connection line M12 plug angled - RJ45 plug straight 4-pole, D-coded
- shielded M12 to RJ45 Ethernet connection line
- Cat.5e, 4-pole, D-coded (IEC 61076-2-101)
- side 1: M12 plug, angled
- side 2: RJ45 plug, straight
- extrusion-coated cable on connectors
- stranded wires 4x1xAWG26/19
- overall shield: tinned copper braid
- pin assignment per Profinet
- green cable, PUR
- variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

P/N | Color | Feature 1 | Feature 2
---|---|---|---
142M4D25010 | green | 1 m | 
142M4D25020 | green | 2 m | 
142M4D25050 | green | 5 m | 
142M4D25100 | green | 10 m | 

P/N | Color | Feature 1 | Feature 2
---|---|---|---
142M4D95010 | green | 1 m | 
142M4D95020 | green | 2 m | 
142M4D95050 | green | 5 m | 
142M4D95100 | green | 10 m | 

Dimensional drawing
**Ethernet M12 | Cable and connection line**

**Connection cable M12 plug straight - free line end 4-pole, D-coded**
- shielded M12 Ethernet connection cable
- Cat.5e, 4-pole, D-coded (IEC 61076-2-101)
- side 1: M12-plug, straight
- side 2: free line end
- extrusion-coated cable on M12 connector
- 2x2xAWG22/7, tinned with plastic foil
- inner sheath FRNC, aluminum-coated plastic foil
- overall shield: tinned copper braid, approx. 85% covered
- Profinet (WS-GE-BL-OR) wiring
- green cable, PUR
- variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

**Connection cable M12 plug straight - free line end 8-pole, X-coded**
- shielded M12 Ethernet connection cable
- Cat.6a, x-coded, 8-pole
- side 1: M12 connector, straight
- side 2: free line end
- M12 connector over molded
- stranded wires 4x2xAWG26/7
- overall shield tinned copper braid
- green cable, PUR
- standard variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

<table>
<thead>
<tr>
<th>P/N</th>
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<th>Feature 1</th>
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<td>142M1D10020</td>
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<tr>
<td>142M1D10050</td>
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<td>142M1D10100</td>
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<td>142M2X10020</td>
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<td>142M2X10050</td>
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<tr>
<td>142M2X10100</td>
<td>green</td>
<td>10 m</td>
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</tr>
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</table>


Connection line M12 plug straight - RJ45 plug straight AWG 26 4-pole, D-coded
- shielded M12-plug to RJ45-plug connection line
- Cat.6a, 8-pole, X-coded
- side 1: M12-plug, straight
- side 2: RJ45-plug, straight
- connectors over molded
- stranded wires 4x2xAWG26/7 PiMF
- pin assignment per T568B
- overall shield tinned copper braid
- green cable, PUR
- standard variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

Connection cable M12 X-coded, M12 plug angled - free line end 8-pole
- shielded M12 to RJ45 Ethernet connection line
- Cat.5e, 4-pole, D-coded (IEC 61076-2-101)
- side 1: M12 plug, angled
- side 2: RJ45 plug, straight
- extrusion-coated cable on connectors
- stranded wires 4x1xAWG26/19
- overall shield: tinned copper braid
- pin assignment per Profinet
- green cable, PUR
- variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

P/N | Color  | Feature 1 | Feature 2
---|--------|-----------|-----------
142M2X15010 | green  | 1 m       |           |
142M2X15020 | green  | 2 m       |           |
142M2X15050 | green  | 5 m       |           |
142M2X15100 | green  | 10 m      |           |

P/N | Color  | Feature 1 | Feature 2
---|--------|-----------|-----------
142M2X90010 | green  | 1 m       | Position of coding 315° |
142M2X90020 | green  | 2 m       | Position of coding 315° |
142M2X90050 | green  | 5 m       | Position of coding 315° |
142M2X90100 | green  | 10 m      | Position of coding 315° |
142M2XA0010 | green  | 1 m       | Position of coding 45° |
142M2XA0020 | green  | 2 m       | Position of coding 45° |
142M2XA0050 | green  | 5 m       | Position of coding 45° |
142M2XA0100 | green  | 10 m      | Position of coding 45° |
142M2XB0010 | green  | 1 m       | Position of coding 135° |
142M2XB0020 | green  | 2 m       | Position of coding 135° |
142M2XB0050 | green  | 5 m       | Position of coding 135° |
142M2XB0100 | green  | 10 m      | Position of coding 135° |
142M2XC0010 | green  | 1 m       | Position of coding 225° |
142M2XC0020 | green  | 2 m       | Position of coding 225° |
142M2XC0050 | green  | 5 m       | Position of coding 225° |
142M2XC0100 | green  | 10 m      | Position of coding 225° |
Connection line M12 plug angled - RJ45 plug straight 8-pole, X-coded

- shielded M12X to RJ45 Ethernet connection line
- Cat.6a, 8-pole
- side 1: M12 connector, angled, position of coding 315°
- side 2: RJ45 plug, straight
- connectors over molded
- stranded wires 4x2xAWG26/7 PiMF
- overall shield tinned copper braid
- pin assignment per T568B
- green cable, PUR

- standard variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

P/N Color Feature 1 Feature 2
142M2X9S010 green 1 m Position of coding 315°
142M2X9S020 green 2 m Position of coding 315°
142M2X9S050 green 5 m Position of coding 315°
142M2X9S100 green 10 m Position of coding 315°
142M2XAS010 green 1 m Position of coding 45°
142M2XAS020 green 2 m Position of coding 45°
142M2XAS050 green 5 m Position of coding 45°
142M2XAS100 green 10 m Position of coding 45°
142M2XS010 green 1 m Position of coding 135°
142M2XS020 green 2 m Position of coding 135°
142M2XS050 green 5 m Position of coding 135°
142M2XS100 green 10 m Position of coding 135°
142M2XC010 green 1 m Position of coding 225°
142M2XC020 green 2 m Position of coding 225°
142M2XC050 green 5 m Position of coding 225°
142M2XC100 green 10 m Position of coding 225°

Connection cable M12 jack straight - free line end 8-pole, X-coded

- shielded M12 Ethernet connection cable
- Cat.6a, X-coded, 8-pole
- side 1: M12-jack, straight
- side 2: free line end
- M12-jack over molded
- stranded wires 4x2xAWG26/7
- overall shield tinned copper braid
- green cable, PUR
- protective cap included in the delivery

- standard variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

P/N Color Feature 1 Feature 2
142M2X20010 green 1 m
142M2X20020 green 2 m
142M2X20050 green 5 m
142M2X20100 green 10 m
Connection line M12 jack straight - RJ45 plug straight 4-pole, D-coded
- shielded M12-jack to RJ45-plug connection line
- Cat.6a, 8-pole, x-coded
- side 1: M12-jack, straight
- side 2: RJ45-plug, straight
- connectors over molded
- stranded wires 4x2xAWG26/7 PiMF
- overall shield tinned copper braid
- pin assignment per T568B
- green cable, PUR
- standard variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

P/N     Color Feature 1 Feature 2
142M2X25010 green 1 m
142M2X25020 green 2 m
142M2X25050 green 5 m
142M2X25100 green 10 m

Connection line M12 plug straight - M12 jack straight 8-pole, X-coded
- shielded M12 Ethernet connection line
- Cat.6a, 8-pole, X-coded
- side 1: M12-plug, straight
- side 2: M12-jack, straight
- extrusion-coated cable on M12 connectors
- stranded wires 4x2xAWG26/7 PiMF
- overall shield tinned copper braid
- 1:1 pin assignment
- green cable, PUR
- a protective cap is included in scope of delivery
- variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

P/N     Color Feature 1 Feature 2
142M2X12010 green 1 m
142M2X12020 green 2 m
142M2X12050 green 5 m
142M2X12100 green 10 m
Connection cable M12 plug straight - free line end drag chain suitable, 8-pole, X-coded

- shielded M12 Ethernet connection cable
- drag chain suitable
- Cat.6a, 8 pole, X-coded
- side 1: M12-plug, straight
- side 2: free line end
- extrusion-coated cable on M12 connector
- stranded wires 4x2xAWG26/19
- overall shield tinned copper braid
- 1:1 pin assignment
- green cable, PUR

- variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
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<th>Feature 2</th>
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<tr>
<td>142M6X10010</td>
<td>green</td>
<td>1 m</td>
<td>drag chain</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>suitable</td>
</tr>
<tr>
<td>142M6X10020</td>
<td>green</td>
<td>2 m</td>
<td>drag chain</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>suitable</td>
</tr>
<tr>
<td>142M6X10050</td>
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<td>5 m</td>
<td>drag chain</td>
</tr>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>suitable</td>
</tr>
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</table>

Connection line M12 plug straight - M12 plug straight 4-pole, D-coded

- shielded M12 Ethernet connection cable
- drag chain suitable
- Cat.6a, 8 pole, X-coded
- side 1: M12-plug, straight
- side 2: M12-plug, straight
- extrusion-coated cable on M12 connectors
- stranded wires 4x2xAWG26/19
- overall shield tinned copper braid
- 1:1 pin assignment
- green cable, PUR

- variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

<table>
<thead>
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</tr>
<tr>
<td>142M6X11020</td>
<td>green</td>
<td>2 m</td>
<td>drag chain</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>suitable</td>
</tr>
<tr>
<td>142M6X11050</td>
<td>green</td>
<td>5 m</td>
<td>drag chain</td>
</tr>
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<td>drag chain</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>suitable</td>
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</table>
Connection cable M12 jack straight - free line end drag chain suitable, 8-pole, X-coded

- shielded M12 Ethernet connection cable
- drag chain suitable
- Cat.6a, 8 pole, X-coded
- side 1: M12-jack, straight
- side 2: free line end
- extrusion-coated cable on M12 connector
- stranded wires 4x2xAWG26/19
- overall shield tinned copper braid
- 1:1 pin assignment
- green cable, PUR

- variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

<table>
<thead>
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<td>drag chain suitable</td>
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<tr>
<td>142M6X20020</td>
<td>green</td>
<td>2 m</td>
<td>drag chain suitable</td>
</tr>
<tr>
<td>142M6X20050</td>
<td>green</td>
<td>5 m</td>
<td>drag chain suitable</td>
</tr>
<tr>
<td>142M6X20100</td>
<td>green</td>
<td>10 m</td>
<td>drag chain suitable</td>
</tr>
</tbody>
</table>

Connection line M12 plug straight - M12 jack straight drag chain suitable, 8-pole, X-coded

- shielded M12 Ethernet connection cable
- drag chain suitable
- Cat.6a, 8 pole, X-coded
- side 1: M12-plug, straight
- side 2: M12-jack, straight
- extrusion-coated cable on M12 connectors
- stranded wires 4x2xAWG26/19
- overall shield tinned copper braid
- 1:1 pin assignment
- green cable, PUR

- variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

<table>
<thead>
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<td>142M6X21050</td>
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<tr>
<td>142M6X21100</td>
<td>green</td>
<td>10 m</td>
<td>drag chain suitable</td>
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Ethernet M12 | Cable and connection line

Connection cable M12 plug straight - free line end 8-pole, X-coded
- shielded M12 Ethernet connection cable
- torsion resistant
- Cat.6a, 8 pole, X-coded
- side 1: M12 plug, straight
- side 2: free line end
- extrusion-coated cable on M12 connector
- stranded wires 4x2xAWG24/7
- overall shield tinned copper braid
- 1:1 pin assignment
- green cable, PUR
- variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

<table>
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<td>142M7X10010</td>
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<td></td>
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<tr>
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<td>green</td>
<td>2 m</td>
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</tr>
<tr>
<td>142M7X10050</td>
<td>green</td>
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<td></td>
</tr>
<tr>
<td>142M7X100100</td>
<td>green</td>
<td>10 m</td>
<td></td>
</tr>
</tbody>
</table>

Connection line M12 plug straight - M12 plug straight 4-pole, D-coded
- shielded M12 Ethernet connection line
- torsion resistant
- Cat.6a, 8 pole, X-coded
- side 1: M12 jack, straight
- side 2: M12 jack, straight
- extrusion-coated cable on M12 connectors
- jacks with vibration-resistance
- stranded wires 4x2xAWG26/7
- overall shield tinned copper braid
- 1:1 pin assignment
- green cable, PUR
- variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
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<tr>
<td>142M7X11005</td>
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<tr>
<td>142M7X11010</td>
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<tr>
<td>142M7X11020</td>
<td>green</td>
<td>2 m</td>
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</tr>
<tr>
<td>142M7X11050</td>
<td>green</td>
<td>5 m</td>
<td></td>
</tr>
<tr>
<td>142M7X11100</td>
<td>green</td>
<td>10 m</td>
<td></td>
</tr>
</tbody>
</table>
Connection cable M12 jack straight - free line end 8-pole, X-coded

- shielded M12 Ethernet connection cable
- torsion resistant
- Cat.7, 8 pole, X-coded
- side 1: M12-jack, straight
- side 2: free line end
- extrusion-coated cable on M12 connector
- stranded wires 4x2xAWG24/7
- overall shield tinned copper braid
- 1:1 pin assignment
- green cable, PUR

- variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

Connection line M12 plug straight - M12 jack straight drag chain suitable, 8-pole, X-coded

- shielded M12 Ethernet connection line
- torsion resistant
- Cat.6a, 8 pole, X-coded
- side 1: M12-plug, straight
- side 1: M12-jack, straight
- extrusion-coated cable on M12 connectors
- connectors with vibration-resistance
- stranded wires 4x2xAWG26/7
- overall shield tinned copper braid
- 1:1 pin assignment
- green cable, PUR

- variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request
**MOXA EtherDevice Switch 5 port**
The industrial Ethernet switch EDS205 is an entry-level switch supporting IEEE 802.3/802.3u/802.3x with 10/100M, full/half duplex, MDI/MDIX auto-sensing. Switches of the EDS205 series can be easily and conveniently mounted on and dismounted from a standard top hat rail.
- 5 ports with 10/100BaseT(X) RJ45
- Supports IEEE 802.3/802.3u/802.3x
- Power supply: DC 12 to 48 V, AC 18 to 30 V
- Mounting on standard top hat rail
- Powerful network switch technology
- Protected against broadcast storm
- Store and forward switching mode

Dimensions W x H x D 25 x 109 x 88 mm
Operating temperature range -10 °C to +60 °C
Storage temperature range -40 °C to +70 °C
Ingress protection IP30

**MOXA EtherDevice Switch 8 port**
The industrial Ethernet switch EDS208 is an entry-level switch supporting IEEE 802.3/802.3u/802.3x with 10/100M, full/half duplex, MDI/MDIX auto-sensing. Switches of the EDS208 series can be easily and conveniently mounted on and dismounted from a standard top hat rail.

Variants:
- EDS208: 8 x 10/100BaseT(X) RJ45
- EDS208-M-SC: 7 x 10/100BaseT(X) RJ45, 1 x 100BaseFX Multi-mode SC-connector

- 8 ports with 10/100BaseT(X) RJ45 or 7 ports with 10/100BaseT(X) RJ45 and 1 port 100BaseFX multi-mode SC connector
- Supports IEEE 802.3/802.3u/802.3x
- Powerful network switch technology
- Protected against broadcast storm
- Store and forward switching mode

Operating voltage DC 12 to 48 V (P/N 110196, 11019601)
Operating voltage AC 18 to 30 V (P/N 11019601)

Dimensions W x H x D 40 x 109 x 95 mm
Operating temperature range -10 °C to +60 °C
Storage temperature range -40 °C to +70 °C
Ingress protection IP30

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>110195</td>
<td>gray</td>
<td>5 port RJ45</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>P/N</th>
<th>Color</th>
<th>Feature 1</th>
<th>Feature 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>110196</td>
<td>gray</td>
<td>8 port RJ45</td>
<td></td>
</tr>
<tr>
<td>11019601</td>
<td>gray</td>
<td>7 port RJ45, 1 port SC MM</td>
<td></td>
</tr>
</tbody>
</table>
Table of contents

1. Fiber optic | Configurators
2. Product information | OpDAT VIK with universal cable
3. Product information | OpDAT VIK with breakout cable
4. Product information | OpDAT VIK with mini breakout cable
5. Product information | OpDAT VIK with mini breakout cable compact
**DCCS2 fiber optic link**

- Pre-assembled fiber optic link consisting of 1 or 2 subassemblies terminated to a 12-fiber mini-breakout cable
- Port numbering remains in place when DCCS2 fiber optic subassemblies are mounted
- For up to 10 GBit Ethernet (IEEE 802.3an)
- All locking levers of patch cords connected to DCCS2 subassemblies show upwards and are easy to handle at any time
- Solid, refined subassembly housing
- Cable diameter less than 6.5 mm

**Example**

**1 3 0 D 2 F 7 5 A 0 8 5 5 E**

DCCS2 fiber optic link 50/125 OM4 with 6 x E2000 DC adapter on each side at DCCS2 subassembly housing, length 85.5 m

**Part number key for further versions**

<table>
<thead>
<tr>
<th>Fiber type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>0050 = 5.0 m</td>
</tr>
<tr>
<td>8</td>
<td>0100 = 10.0 m</td>
</tr>
<tr>
<td>7</td>
<td>0150 = 15.0 m</td>
</tr>
<tr>
<td>5</td>
<td>0200 = 20.0 m</td>
</tr>
<tr>
<td>5A</td>
<td>0995 = 99.9 m</td>
</tr>
<tr>
<td>5B</td>
<td>1000 = 100.0 m</td>
</tr>
<tr>
<td>5C</td>
<td>5000 = 500.0 m</td>
</tr>
</tbody>
</table>

**Please note:**

These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned.
DCCS2 fiber optic MPO link
- Pre-assembled fiber optic link consisting of one MPO plug on each side and a 12-fiber connection cable (ribbon style)
- Polarity A or C particularly suitable for DCCS2 modules 6LC-D/MPO
- For up to 10 GBit Ethernet (IEEE 802.3an) when combined with DCCS2 subassemblies MPO 6xLC-D
- Delivery with serial number and attenuation measuring reports
- Maximum length 500 m

Example
130D2F 5 MP A 0200 E
MPO Link at a 12-fiber OM3 cable, length 20 m

Part number key for further versions

<table>
<thead>
<tr>
<th>Fiber type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 = 12 fibers E9/125 OS2</td>
<td>0010 = 1.0 m</td>
</tr>
<tr>
<td>5 = 12 fibers 50/125 OM3</td>
<td>0015 = 1.5 m</td>
</tr>
<tr>
<td>7 = 12 fibers 50/125 OM4</td>
<td>0050 = 5.0 m</td>
</tr>
</tbody>
</table>

Polarity method A

Please note:
These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned.
Please note:
These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned.
# Specifications

## OpDAT VIK with universal cable

<table>
<thead>
<tr>
<th>Cable divider</th>
<th>Size</th>
<th>S</th>
<th>M</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>65 mm</td>
<td>65 mm</td>
<td>80 mm</td>
<td></td>
</tr>
<tr>
<td>Max. outer diameter</td>
<td>23 mm</td>
<td>29 mm</td>
<td>36 mm</td>
<td></td>
</tr>
<tr>
<td>Type of fixation</td>
<td>slot or PG11</td>
<td>slot or PG21</td>
<td>slot or PG21</td>
<td></td>
</tr>
<tr>
<td>Drilling for fixation</td>
<td>19 ± 0.2 mm</td>
<td>28.8 ± 0.2 mm</td>
<td>28.8 ± 0.2 mm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cable</th>
<th>Cable type</th>
<th>U-DQ(ZN)BH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable structure (loose tube x number of fibers)</td>
<td>1x4, 1x8, 1x12</td>
<td>1x24, 4x12</td>
</tr>
<tr>
<td>Outer diameter</td>
<td>7.5 mm</td>
<td>8.0 mm</td>
</tr>
<tr>
<td>Cable weight</td>
<td>55 kg/km</td>
<td>60 kg/km</td>
</tr>
<tr>
<td>Min. bending radius</td>
<td>60 mm</td>
<td>60 mm</td>
</tr>
</tbody>
</table>

- **Fire behavior**
  - Flame retardant according to IEC 60332-1-2
  - Halogene-free according to IEC 60754-1
  - Smoke density according to IEC 61034-2

<table>
<thead>
<tr>
<th>Fanout</th>
<th>Individual cables</th>
<th>2.1 mm, loose tube</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length if graded (with pull-in aid)</td>
<td>( L_{\text{max}} ) [\text{mm}]</td>
<td>4F: 680</td>
</tr>
<tr>
<td></td>
<td>( L_{\text{min}} ) [\text{mm}]</td>
<td>500 mm</td>
</tr>
<tr>
<td>Length if not graded (with bubble wrap or protection net)</td>
<td></td>
<td>1000 mm</td>
</tr>
</tbody>
</table>

- **Marking**
  - Numbered, \( 1 = L_{\text{max}} \)
- **Material and color of the loose tube**
  - I-V(ZN)H, FRNC
  - OS2 = yellow, OM4= violet, OM3= aqua, OM5= lime green

<table>
<thead>
<tr>
<th>Pull-in aid</th>
<th>Max. outer diameter</th>
<th>IP50</th>
<th>IP67</th>
<th>29.5 mm</th>
<th>31.5 mm</th>
<th>37 mm</th>
<th>39 mm</th>
<th>44 mm</th>
<th>46 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. tensile strength</td>
<td>IP50</td>
<td>IP67</td>
<td>500 N</td>
<td>700 N</td>
<td>500 N</td>
<td>650 N</td>
<td>500 N</td>
<td>700 N</td>
<td></td>
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<table>
<thead>
<tr>
<th>Delivery</th>
<th>Length ( L_G )</th>
<th>2 to 100 m</th>
<th>101 to 1000 m</th>
<th>Cable coil</th>
<th>Drum dia. 600 mm</th>
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</thead>
<tbody>
<tr>
<td>Length ( L_G )</td>
<td>2 to 50 m</td>
<td>51 to 150 m</td>
<td>151 to 500 m</td>
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<td>-</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Cable coil</td>
<td>Drum dia. 600 mm</td>
</tr>
</tbody>
</table>
Order information
OpDAT VIK with universal cable

Product description
Pre-terminated installation cables (VIK) are fiber optic cables with connectors on one or both ends that are made in manual single item production at METZ CONNECT in Blumberg by respecting highest quality demands. Combined with universal cables they are suitable for mechanically demanding indoor or outdoor use.

VIKs are often used together with OpDAT patch panels. They allow a rapid and easy to install point-to-point connection of passive and active network components. Thus, installation time and cost are considerably reduced compared to an installation requiring splicing and pigtails or a cabling with different patch cords.

### Table: Pre-Terminated Assemblies

<table>
<thead>
<tr>
<th>Fiber type</th>
<th>Fanout protection</th>
<th>Number of fibers</th>
<th>Cable end A and B</th>
<th>Length L_G</th>
</tr>
</thead>
<tbody>
<tr>
<td>U = universal cable/ U-DQ(ZN)BH</td>
<td>2 = bubble wrap both ends</td>
<td>02 = 2 fibers</td>
<td>J = LC</td>
<td>002 = 2 m</td>
</tr>
<tr>
<td>9 = E9/125 OS2</td>
<td>3 = protection net one end</td>
<td>04 = 4 fibers</td>
<td>K = LC APC</td>
<td>010 = 10 m</td>
</tr>
<tr>
<td>8 = 50/125 OM5</td>
<td>4 = protection net both ends</td>
<td>06 = 6 fibers</td>
<td>E = SC</td>
<td>999 = 999 m</td>
</tr>
<tr>
<td>7 = 50/125 OM4</td>
<td>5 = pull-in aid IP50 one end</td>
<td>08 = 8 fibers</td>
<td>F = SC APC</td>
<td>A00 = 1.000 m</td>
</tr>
<tr>
<td>5 = 50/125 OM3</td>
<td>6 = pull-in aid IP50 both ends</td>
<td>12 = 12 fibers</td>
<td>A = ST</td>
<td>000 = 0 m</td>
</tr>
<tr>
<td>152 = 12 fibers</td>
<td>7 = pull-in aid IP67 one end</td>
<td>16 = 16 fibers</td>
<td>P = E2000</td>
<td>010 = 10 m</td>
</tr>
<tr>
<td>24 = 24 fibers</td>
<td>8 = pull-in aid IP67 both ends</td>
<td>48 = 48 fibers</td>
<td>Q = E2000 APC</td>
<td>050 = 50 m</td>
</tr>
</tbody>
</table>

**Please note:**
These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned. Technically, it is not possible to produce all possible combinations. Just use our cable configurator available on our web site at www.metz-connect.com/en/cable-configurator. There you can find all variants available.
**Product description**

Pre-terminated installation cables (VIK) are fiber optic cables with connectors on one or both ends that are made in manual single item production at METZ CONNECT in Blumberg by respecting highest quality demands. Combined with breakout cables (BO) they are suitable for indoor and outdoor use.

VIKs are often used together with OpDAT patch panels (types PF, PA, fix, slide). They allow a rapid and easy to install point-to-point connection. Thus, installation time and cost are considerably reduced compared to an installation requiring splicing and pigtales or a cabling with different patch cords.

---

**Order information**

**OpDAT VIK with breakout cable**

<table>
<thead>
<tr>
<th>Breakout</th>
<th>Fiber type</th>
<th>Fanout protection</th>
<th>PG fixation kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>X</td>
<td>X</td>
<td>G</td>
</tr>
</tbody>
</table>

### Product Code Explanation

<table>
<thead>
<tr>
<th>Number of fibers</th>
<th>Cable end A and B</th>
<th>Length L_G</th>
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<tbody>
<tr>
<td>02 = 2 fibers</td>
<td>J = LC</td>
<td>001 = 1 m</td>
</tr>
<tr>
<td>04 = 4 fibers</td>
<td>K = LC APC</td>
<td>...</td>
</tr>
<tr>
<td>06 = 6 fibers</td>
<td>E = SC</td>
<td>650 = 650 m</td>
</tr>
<tr>
<td>08 = 8 fibers</td>
<td>F = SC APC</td>
<td></td>
</tr>
</tbody>
</table>

- **B** = Breakout
- **X** = Fanout protection
- **G** = PG fixation kit

**Please note:**

These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned. Technically, it is not possible to produce all possible combinations. Just use our cable configurator available on our web site at www.metz-connect.com/en/cable-configurator. There you can find all variants available.
Order information
OpDAT VIK with mini breakout cable

Product description
Pre-terminated installation cables (VIK) are fiber optic cables with connectors on one or both ends that are made in manual singleitem production at METZ CONNECT in Blumberg by respecting highest quality demands. Combined with mini breakout cables (MBO) they are suitable for indoor and outdoor use. VIKs are often used together with OpDAT patch panels (types PF, PA, fix, slide). They allow a rapid and easy to install point-to-point connection of passive and active network components. Thus, installation time and cost are considerably reduced compared to an installation requiring splicing and pigtails or a cabling with different patch cords.

Please note:
These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned. Technically, it is not possible to produce all possible combinations.
Just use our cable configurator available on our web site at www.metz-connect.com/en/cable-configurator. There you can find all variants available.
Order information
OpDAT VIK with mini breakout cable compact

Product description
Pre-terminated installation cables (VIK) are fiber optic cables with connectors on one or both ends that are made in manual singleitem production by respecting highest quality demands. Combined with Mini Breakout Cables Compact (MBO C) they are suitable for indoor use, especially for Fiber-in-the-Home applications. VIKs are often used together with OpDAT wall outlets. They allow a rapid and easy to install point-to-point connection for example from the apartment to the equipment room.

Please note:
These cables will be manufactured according to your specifications. They can therefore neither be exchanged nor returned. Technically, it is not possible to produce all possible combinations. Just use our cable configurator available on our web site at www.metz-connect.com/en/cable-configurator. There you can find all variants available.
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