# Efficient cable entry with system

Cable entry systems are in increasing demand as an efficient alternative to heavy-duty plug-in connectors and cable glands. They can be used to route assembled cables directly into the control cabinet, to devices, and onto DIN rails without an additional plug-in connection.

For the first time ever, using the unique sealing frame with locking latch you can replace and seal cables without the need for tools.

Phoenix Contact offers a well-designed system solution: from system and field cabling to the DIN rail.

**The new CES cable entry system from Phoenix Contact offers:**

- Space savings over conventional plug-in connections and cable glands
- Tool-free mounting using unique sealing frames
- Reliable locking, strain relief, and seal with IP54 protection
- Simplified installation and reliable seal up to IP65 using coned sleeves
- Direct and easy mounting on standard panel cutouts
- A wide product range for various different requirements

## Sealing frames

| With locking latch | Design | Description | Order No. |
|---|---|---|---|
| Material: polyamide, halogen-free, silicone-free<br>Color: black<br>Temperature range: -40 … +80°C<br>Degree of protection: IP54<br>Inflammability according to UL94: V0 | B10 | For accommodating up to 6 cable sleeves | 0801663 |
| | B16 | For accommodating up to 8 cable sleeves | 0801662 |
| | B24 | For accommodating up to 10 cable sleeves | 0801661 |

| With screw locking | Design | Description | Order No. |
|---|---|---|---|
| Material: polyamide, halogen-free, silicone-free<br>Color: black<br>Temperature range: -40 … +80°C<br>Degree of protection: IP54<br>Inflammability according to UL94: V0 | B10 | For accommodating up to 6 cable sleeves | 0801660 |
| | B16 | For accommodating up to 8 cable sleeves | 0801659 |
| | B24 | For accommodating up to 10 cable sleeves | 0801658 |

| Snap-on frames | Design | Description | Order No. |
|---|---|---|---|
| Material: polyamide, halogen-free, silicone-free<br>Color: black<br>Temperature range: -20 … +80°C<br>Degree of protection: IP54<br>Inflammability according to UL94: V0 | B10 | For accommodating B10 CES sealing frames, with integrated seal | 0801655 |
| | B16 | For accommodating B16 CES sealing frames, with integrated seal | 0801651 |
| | B24 | For accommodating B24 CES sealing frames, with integrated seal | 0801647 |

## Accessories for sealing frames

| Locking plates | Design | Description | Order No. |
|---|---|---|---|
| | B10 | | 0801645 |
| | B16 | | 0801642 |
| | B24 | | 0801641 |

| Flat gasket | Design | Description | Order No. |
|---|---|---|---|
| | B10 | Cutout: 35 mm x 65 mm | 0801725 |
| | B16 | Cutout: 35 mm x 86 mm | 0801726 |
| | B24 | Cutout: 35 mm x 113 mm | 0801727 |

| Replacement screw | Design | Description | Order No. |
|---|---|---|---|
| | | M4, 4 mm Allen screw, for sealing frames with screw locking | 0801728 |

| EMC cable catch rails | Design | Description | Order No. |
|---|---|---|---|
| | B16 | For mounting on the long side of the sealing frame | 3063507 |
| | B24 | For mounting on the long side of the sealing frame | 3063510 |
| | B10/B16/B24 | For mounting on the short side of the sealing frame | 3063523 |

## Accessories for cable sleeves

| Filler plugs | Design | Order No. | Design | Order No. |
|---|---|---|---|---|
| Material: polyamide, halogen-free, silicone-free<br>Temperature range: -20 … +80°C<br>Degree of protection: IP54<br>Inflammability according to UL94: V0 | 3 mm | 3063921 | 11 mm | 3064001 |
| | 4 mm | 3063934 | 12 mm | 3062016 |
| | 5 mm | 3063947 | 13 mm | 3062029 |
| | 6 mm | 3063950 | 14 mm | 3062032 |
| | 7 mm | 3063963 | 15 mm | 3062045 |
| | 8 mm | 3063976 | 16 mm | 3062058 |
| | 9 mm | 3063989 | 17 mm | 3062061 |
| | 10 mm | 3063992 | | |

## Cable sleeves, rubber

| Coned sleeves, IP65 | Design | Order No. | Design | Order No. |
|---|---|---|---|---|
| Material: NBR<br>Color: black<br>Temperature range: -40 … +80°C | Small, 2 - 15 mm | 0801718 | Large, 15 - 34 mm | 0801719 |

| Without bore hole, IP65 | Design | Order No. | Design | Order No. |
|---|---|---|---|---|
| Material: NBR<br>Color: black<br>Temperature range: -40 … +80°C | Small | 0801670 | Large | 0801671 |

| Small, slotted, IP54 | Design | Order No. | Design | Order No. |
|---|---|---|---|---|
| Material: NBR<br>Color: black<br>Temperature range: -40 … +80°C | 1 - 2 mm | 0801635 | 8 - 9 mm | 0801622 |
| | 2 - 3 mm | 0801633 | 9 - 10 mm | 0801620 |
| | 3 - 4 mm | 0801632 | 10 - 11 mm | 0801618 |
| | 4 - 5 mm | 0801630 | 11 - 12 mm | 0801617 |
| | 5 - 6 mm | 0801628 | 12 - 13 mm | 0801616 |
| | 6 - 7 mm | 0801627 | 13 - 14 mm | 0801615 |
| | 7 - 8 mm | 0801625 | | |

| Large, slotted, IP54 | Design | Order No. | Design | Order No. |
|---|---|---|---|---|
| Material: NBR<br>Color: black<br>Temperature range: -40 … +80°C | 14 - 15 mm | 0801619 | 24 - 25 mm | 0801640 |
| | 15 - 16 mm | 0801621 | 25 - 26 mm | 0801643 |
| | 16 - 17 mm | 0801624 | 26 - 27 mm | 0801644 |
| | 17 - 18 mm | 0801626 | 27 - 28 mm | 0801646 |
| | 18 - 19 mm | 0801629 | 28 - 29 mm | 0801648 |
| | 19 - 20 mm | 0801631 | 29 - 30 mm | 0801650 |
| | 20 - 21 mm | 0801634 | 30 - 31 mm | 0801653 |
| | 21 - 22 mm | 0801637 | 31 - 32 mm | 0801654 |
| | 22 - 23 mm | 0801638 | 32 - 33 mm | 0801656 |
| | 23 - 24 mm | 0801639 | | |

## Cable sleeves, rubber, special formats, IP54

| Small, slotted, with 2 or 4 bore holes | Design | Description | Order No. |
|---|---|---|---|
| Material: NBR<br>Color: black<br>Temperature range: -40 … +80°C | 2 x 5 mm | With 2 bore holes | 0801675 |
| | 2 x 6 mm | With 2 bore holes | 0801654 |
| | 4 x 3 mm | With 4 bore holes | 0801665 |
| | 4 x 4 mm | With 4 bore holes | 0801666 |

| Small, slotted, for AS-Interface cables | Design | Description | Order No. |
|---|---|---|---|
| Material: NBR<br>Color: black<br>Temperature range: -40 … +80°C | | For one AS-Interface cable | 0801667 |
| | | For two AS-Interface cables, arrangement: LL | 0801669 |
| | | For two AS-Interface cables, arrangement: LR | 0801668 |

## Cable sleeves, thermoplastics

| Without bore hole, IP65 | Design | Order No. | Design | Order No. |
|---|---|---|---|---|
| Material: SEBS<br>Color: gray<br>Temperature range: -40 … +80°C<br>Inflammability according to UL94: V0 | Small | 0801715 | Large | 0801716 |

| Small, slotted, IP54 | Design | Order No. | Design | Order No. |
|---|---|---|---|---|
| Material: SEBS<br>Color: gray<br>Temperature range: -40 … +80°C<br>Inflammability according to UL94: V0 | 1 - 2 mm | 0801672 | 8 - 9 mm | 0801680 |
| | 2 - 3 mm | 0801673 | 9 - 10 mm | 0801682 |
| | 3 - 4 mm | 0801674 | 10 - 11 mm | 0801683 |
| | 4 - 5 mm | 0801675 | 11 - 12 mm | 0801684 |
| | 5 - 6 mm | 0801676 | 12 - 13 mm | 0801685 |
| | 6 - 7 mm | 0801677 | 13 - 14 mm | 0801686 |
| | 7 - 8 mm | 0801679 | | |

| Large, slotted, IP54 | | | | |
|---|---|---|---|---|
| Material: SEBS<br>Color: gray<br>Temperature range: -40 … +80°C<br>Inflammability according to UL94: V0 | 14 - 15 mm | 0801687 | 24 - 25 mm | 0801698 |
| | 15 - 16 mm | 0801688 | 25 - 26 mm | 0801699 |
| | 16 - 17 mm | 0801689 | 26 - 27 mm | 0801700 |
| | 17 - 18 mm | 0801690 | 27 - 28 mm | 0801701 |
| | 18 - 19 mm | 0801691 | 28 - 29 mm | 0801702 |
| | 19 - 20 mm | 0801692 | 29 - 30 mm | 0801703 |
| | 20 - 21 mm | 0801693 | 30 - 31 mm | 0801705 |
| | 21 - 22 mm | 0801695 | 31 - 32 mm | 0801706 |
| | 22 - 23 mm | 0801696 | 32 - 33 mm | 0801707 |
| | 23 - 24 mm | 0801697 | | |

## Cable sleeves, thermoplastics, special formats, IP54

| Small, slotted, with 2 or 4 bore holes | Design | Description | Order No. |
|---|---|---|---|
| Material: SEBS<br>Color: gray<br>Temperature range: -40 … +80°C<br>Inflammability according to UL94: V0 | 2 x 5 mm | With 2 bore holes | 0801708 |
| | 2 x 6 mm | With 2 bore holes | 0801709 |
| | 4 x 3 mm | With 4 bore holes | 0801710 |
| | 4 x 4 mm | With 4 bore holes | 0801711 |

| Small, slotted, for AS-Interface cables | Design | Description | Order No. |
|---|---|---|---|
| Material: SEBS<br>Color: gray<br>Temperature range: -40 … +80°C<br>Inflammability according to UL94: V0 | | For one AS-Interface cable | 0801712 |
| | | For two AS-Interface cables, arrangement: LL | 0801714 |
| | | For two AS-Interface cables, arrangement: LR | 0801713 |

# PLUSCON cabinet

## CES cable entry system

PHOENIX CONTACT
INSPIRING INNOVATIONS

### Saves space and costs

The CES cable entry system allows water and dust-proof insertion of a variety of cables into areas with limited space in control cabinets, distributor boxes or devices.

### Split sealing frames with metal reinforcement

The sealing frames, which can be split, provide a reliable seal and strain relief for pre-assembled cables according to DIN EN 50262. The plug-in connectors are simply led through the panel cutouts. Thanks to the integrated metal reinforcement of the plastic frames, only two locking elements (screws or latches) are required on the front.

### Variable mounting options

The CES sealing frames can be mounted directly on standard panel cutouts (e.g., Rittal) for industrial plug-in connectors. Snap-on frames are available to simplify on-site installation.

### Sleeve assembly

*1. Select and arrange sleeves*

*2. Snap sleeves into sealing frame and position sealing frame*

*3. Push sealing frame together and lock*

### Optional locking

Sealing frames with screw locking and locking latches are available. The locking latch does not require any tools, which makes it really quick and easy to use, even in places that are difficult to access.

### Ideal for industrial plug-in connectors

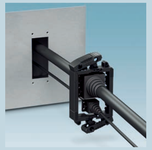
By widening the standard Rittal cutouts from 35 mm to 51 mm, even wide rectangular HEAVYCON industrial plug-in connectors can be swiveled through mounting panels and sealed and provided with strain relief using the CES cable entry system.

### Cable sleeves for every application

The gray thermoplastic sleeves exhibit a low level of flammability according to UL 94 V0 and are resistant to acids and lyes. The black rubber sleeves (NBR) perform significantly better in the long term, particularly in the event of temperature fluctuations. The material used is halogen-free and resistant to oils, fuels, and grease.

### Fast installation and a reliable seal

It only takes two coned sleeves to seal any cable diameter ranging from 2 to 24 mm. The coned sleeves are cut to the relevant length and pushed onto the cables before the plug-in connectors are assembled. There is no longer any need to select corresponding slotted rubber seals on site, which can be a time-consuming process, and the reliability of the seal has been significantly improved for ratings up to IP65. Cable binders can be used to further enhance the long-term strain relief and tightness of the coned sleeves.







Further information on the products presented here and on the world of solutions from Phoenix Contact can be found at
**www.phoenixcontact.net/catalog**

**Or contact us directly.**

PHOENIX CONTACT GmbH & Co. KG
32823 Blomberg, Germany
Phone: +49 (0) 52 35 3-00
Fax: +49 (0) 52 35 3-4 12 00
www.phoenixcontact.com

**Modular Terminal Blocks**
CLIPLINE 1

**Marking Systems, Tools, and Mounting Material**
CLIPLINE 2

**Connection Technology for Field Devices and Field Cabling**
PLUSCON

**Device Connection Technology and Electronic Housings**
COMBICON

**Power and Signal Quality**
TRABTECH

**Signal converters, switching devices, power supply units**
INTERFACE

**Automation Components and Systems**
AUTOMATION

© PHOENIX CONTACT 2012

Printed in Germany
MNR 5200140726.03.2012-00

PHOENIX CONTACT
INSPIRING INNOVATIONS