

# SUBCON-PLUS 9/F - D-SUB bus connector



2744241

<https://www.phoenixcontact.com/us/products/2744241>

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D-SUB connector, 9-pos. female connector, two 35° cable entries, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to one screw connection terminal block

## Product description

Two cable infeeds are often required on the D-SUB plugs used in order to build fieldbus systems with RS-485 interfaces. The SUBCON-PLUS plugs range fulfills this requirement and routes the connection to screw terminal blocks – however, duplicated – for two cables. This means clarity during wiring and it simplifies every startup. These plugs are of course also shielded against EMC influences with a metallized housing. In addition, by placing the connection block in either the upper or lower shell, it is possible to select the cable infeed on site from the right or left .

## Your advantages

- Assembly under field conditions
- Separate terminal blocks for each cable
- High transmission speed
- High level of EMC
- Flexibility in terms of cable entry selection
- Can be used universally
- Change to the D-SUB orientation through a reversible connection block



## Commercial data

|                        |         |
|------------------------|---------|
| Item number            | 2744241 |
| Packing unit           | 1 pc    |
| Minimum order quantity | 1 pc    |
| Sales key              | DN10    |
| Product key            | DNC521  |

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|                                      |               |
|--------------------------------------|---------------|
| GTIN                                 | 4017918415631 |
| Weight per piece (including packing) | 57.61 g       |
| Weight per piece (excluding packing) | 59.77 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Notes

#### Utilization restriction

|            |                                                               |
|------------|---------------------------------------------------------------|
| CCCex note | Use in potentially explosive areas is not permitted in China. |
|------------|---------------------------------------------------------------|

### Product properties

|                |                                                                          |
|----------------|--------------------------------------------------------------------------|
| Product type   | Data plug                                                                |
| MTTF           | 6706 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)    |
|                | 1817 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%) |
|                | 155 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)    |
| Pin assignment | All connections are 1:1 on the screw terminal block                      |

### Electrical properties

|                       |            |
|-----------------------|------------|
| Nominal voltage $U_N$ | 30 V AC/DC |
| Nominal current $I_N$ | 100 mA     |
| Transmission medium   | Copper     |

### Connection data

#### D-SUB connection

|                   |              |
|-------------------|--------------|
| Connection method | D-SUB socket |
|-------------------|--------------|

#### PCB connection

|                                            |                      |
|--------------------------------------------|----------------------|
| Connection method                          | Screw connection     |
| Stripping length                           | 5 mm                 |
| Conductor cross-section, rigid min.        | 0.14 mm <sup>2</sup> |
| Conductor cross-section, rigid max.        | 1.5 mm <sup>2</sup>  |
| Conductor cross-section flexible min.      | 0.14 mm <sup>2</sup> |
| Conductor cross-section flexible max.      | 1 mm <sup>2</sup>    |
| Single-wire/terminal point, rigid AWG min. | 26                   |
| Single-wire/terminal point, rigid AWG max. | 16                   |
| Min. AWG conductor cross-section, flexible | 26                   |
| Max. AWG conductor cross-section, flexible | 18                   |
| Tightening torque                          | 0.22 Nm ... 0.25 Nm  |

### Interfaces

|            |                                |
|------------|--------------------------------|
| Bus system | Universal type for all systems |
| Signal     | RS-485                         |
|            | RS-232                         |
|            | RS-422                         |

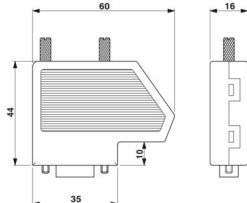
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## Dimensions

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 16 mm                                                                              |
| Height              | 44 mm                                                                              |
| Length              | 60 mm                                                                              |

## Material specifications

|                    |                            |
|--------------------|----------------------------|
| Color (Housing)    | white aluminium (RAL 9006) |
| Material (Housing) | ABS (metal-plated)         |

## Cable/line

|                         |                                    |
|-------------------------|------------------------------------|
| External cable diameter | 6 mm ... 10 mm (Incoming bus line) |
|-------------------------|------------------------------------|

## Mechanical properties

|                             |          |
|-----------------------------|----------|
| Mechanical data             |          |
| Insertion/withdrawal cycles | > 200    |
| Fixing screws               | 4-40 UNC |
| Tightening torque           | 0.4 Nm   |

## Mechanical tests

|                                                                    |                                                     |
|--------------------------------------------------------------------|-----------------------------------------------------|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | Operation: 5g, 10...150 Hz, 2.5 h, in XYZ direction |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27              | Operation: 15g, 11 ms period, half-sine shock pulse |

## Environmental and real-life conditions

|                                          |                                                                                        |
|------------------------------------------|----------------------------------------------------------------------------------------|
| Ambient conditions                       |                                                                                        |
| Degree of protection                     | IP20                                                                                   |
| Ambient temperature (operation)          | -20 °C ... 75 °C                                                                       |
| Ambient temperature (storage/transport)  | -25 °C ... 80 °C                                                                       |
| Altitude                                 | ≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) |
| Permissible humidity (operation)         | 10 % ... 95 % (non-condensing)                                                         |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing)                                                          |

## Approvals

|      |
|------|
| ATEX |
|------|

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|                |                                                                           |
|----------------|---------------------------------------------------------------------------|
| Identification | Ⓜ II 3 G Ex ec IIC T4 Gc                                                  |
| Certificate    | PxCIF15ATEX2744241X                                                       |
| Note           | Please follow the special installation instructions in the documentation! |

## Corrosive gas test

|                |                                  |
|----------------|----------------------------------|
| Identification | ISA-S71.04-1985 G3 Harsh Group A |
|----------------|----------------------------------|

## Standards and regulations

|                                                                   |                    |
|-------------------------------------------------------------------|--------------------|
| Free from substances that could impair the application of coating | VDMA 24364:2018-05 |
|-------------------------------------------------------------------|--------------------|

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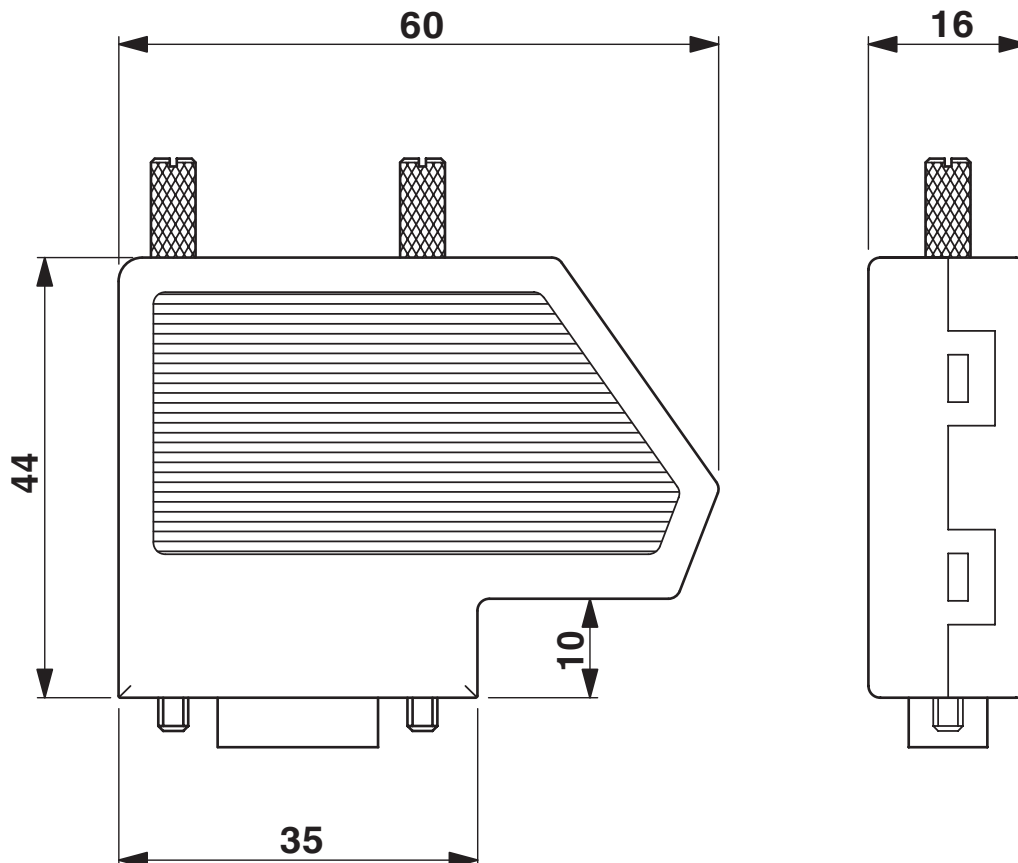
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## Drawings

Dimensional drawing



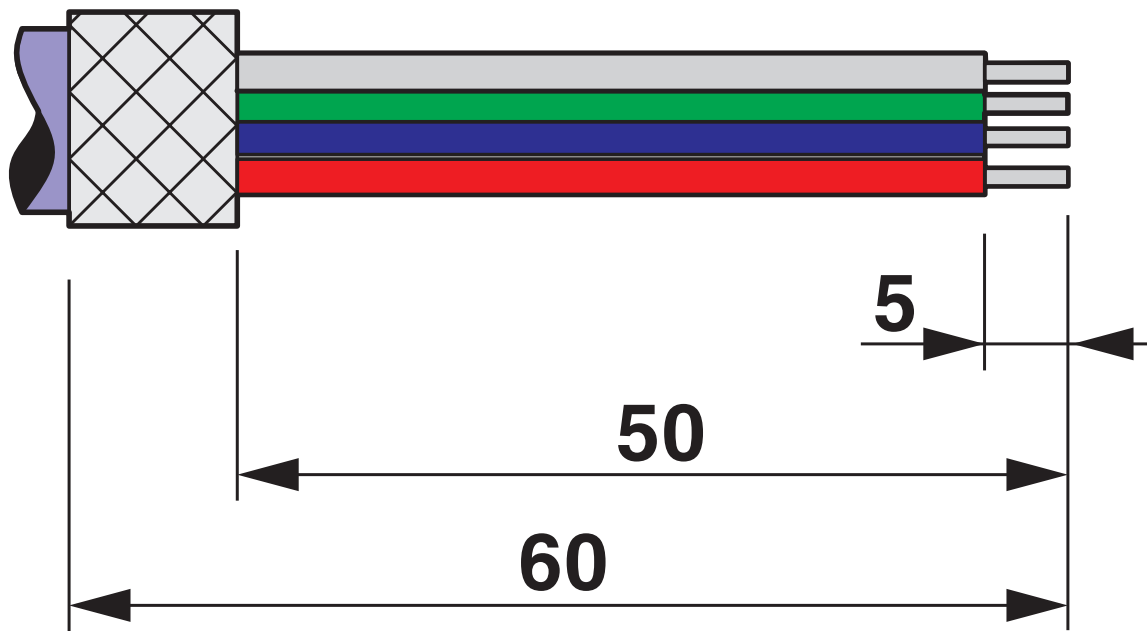
Dimensional drawing SUBCON-PLUS...

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Schematic diagram



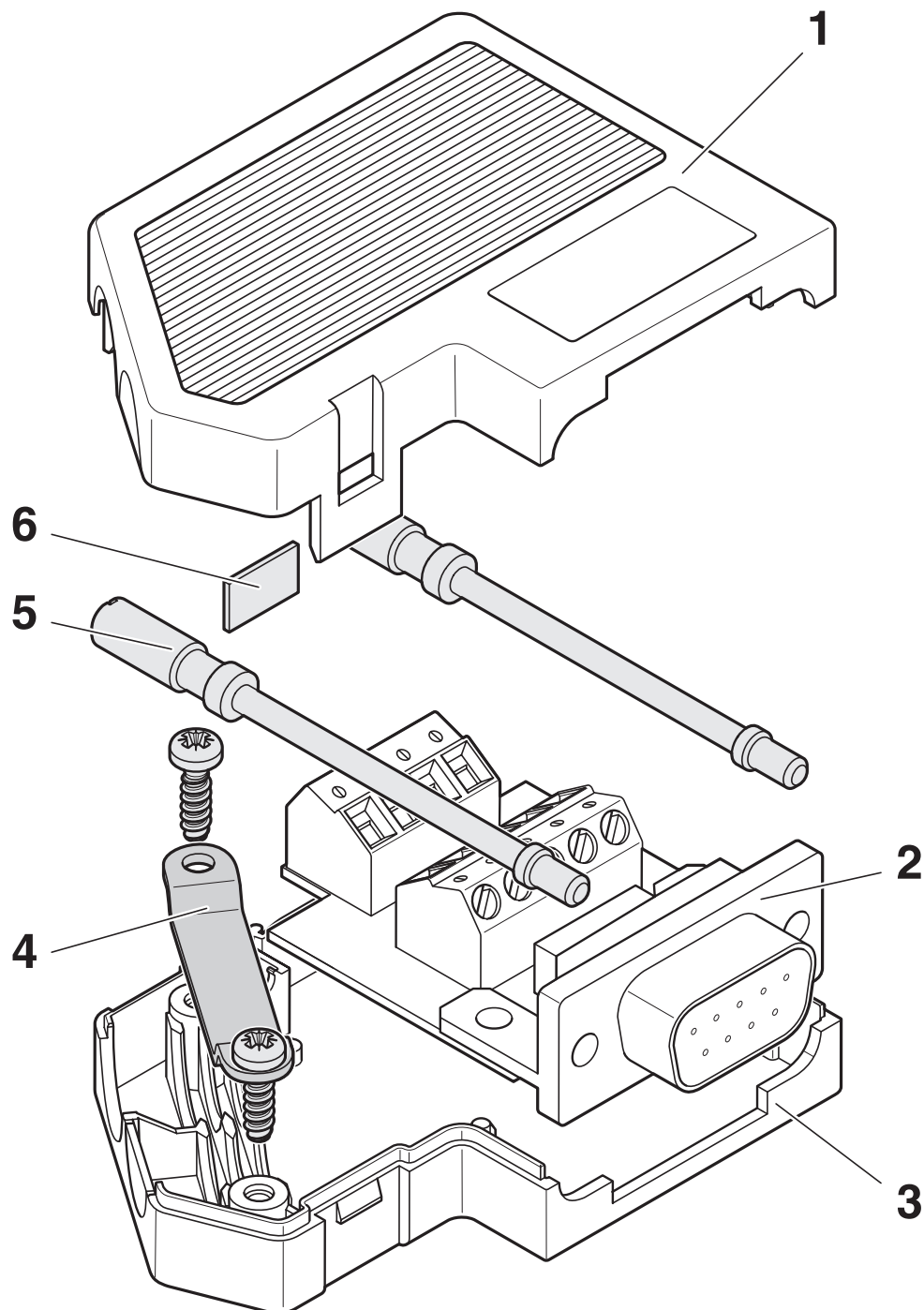
Stripping specifications

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Schematic diagram



Function elements

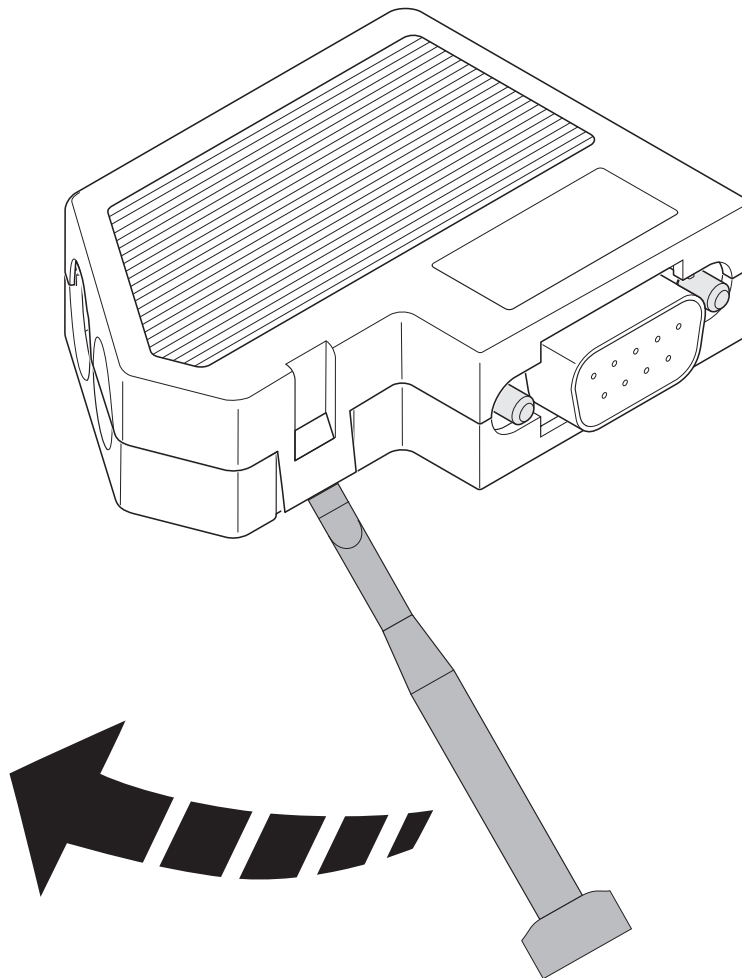
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Schematic diagram



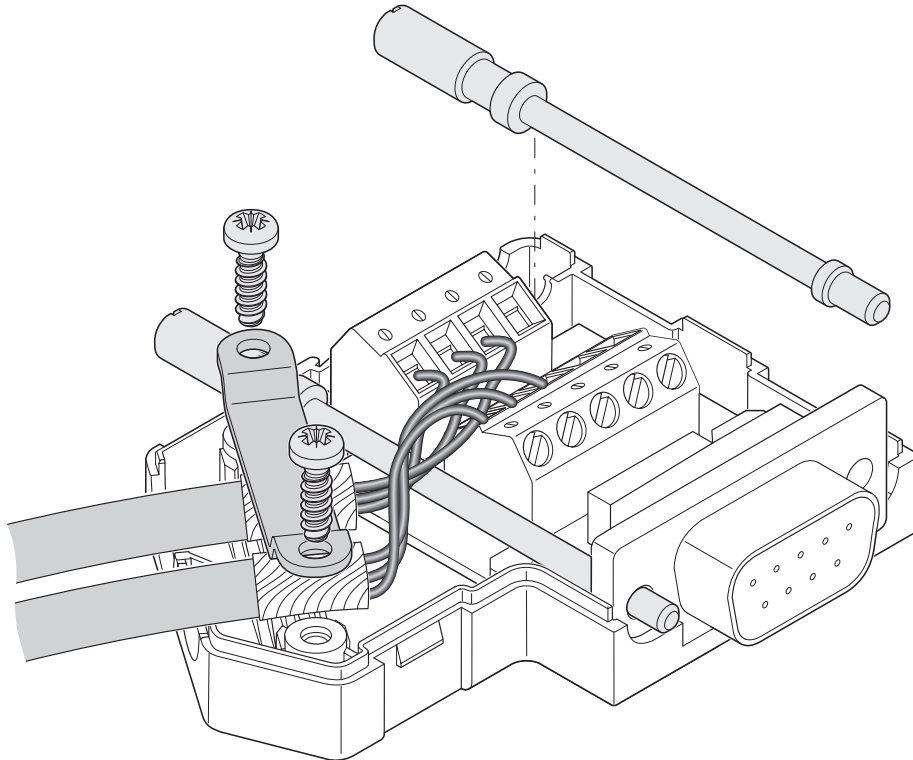
Opening the housing

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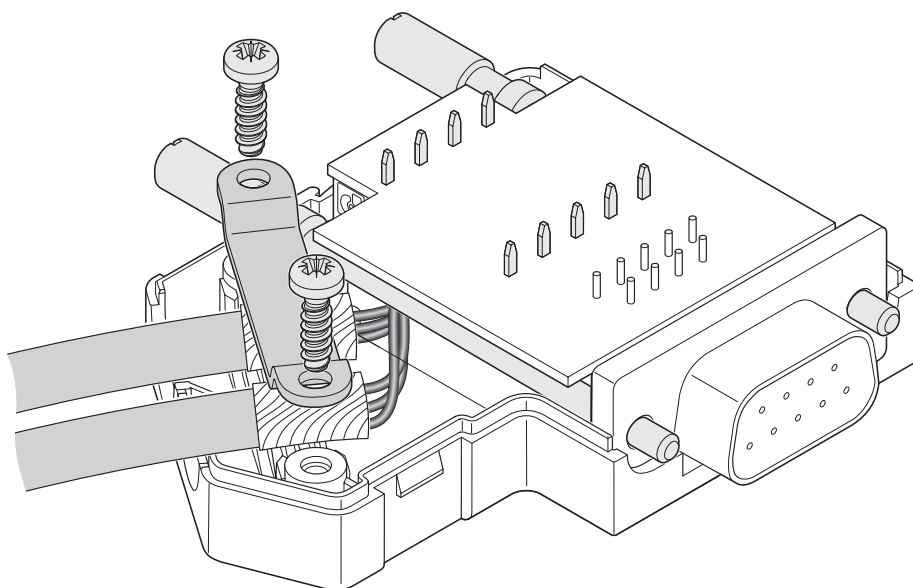
<https://www.phoenixcontact.com/us/products/2744241>

Schematic diagram



Left-hand side cable entry

Schematic diagram



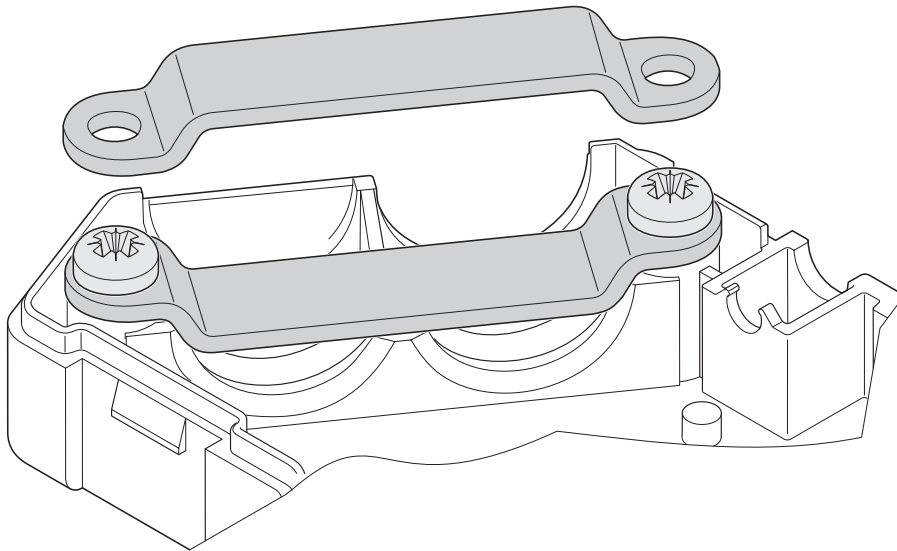
Right-hand side cable entry

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Schematic diagram



Clip bracket

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## Approvals

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**cULus Recognized**  
Approval ID: E238705

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440302 |
| ECLASS-15.0 | 27440322 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001132 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.359 kg CO2e |
|---------|---------------|

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