

**1** Mobile Power Distribution Boxes of Solid Rubber  
– Floor-Mounted –



**2** Stationary Power Distribution Boxes Solid Rubber  
– Wall-Mounted –



**3** Mobile and Stationary Safety and Isolation Transformers  
in Solid Rubber Housing



**4** Solid Rubber Cable Reels  
Spring Cable Reels  
Cable Trolleys



**5** Distributors – Special Models



**6** Aluminum Energy Columns



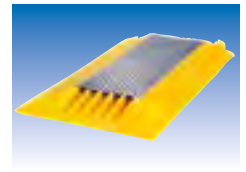
**7** Plugs with Earthing Contact and CEE Plug Connectors  
– Industrial Models –



**8** Special Cable Solutions



**9** Cable and Hose Bridge Systems  
Lightening Protection Bridges



**10** Electrical Welding Products  
– Plugs, Connectors, Pliers, Cables, Accessories –



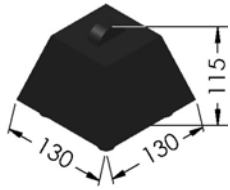
# Mobile Power Distribution Boxes of Solid Rubber

## – Floor-Mounted –

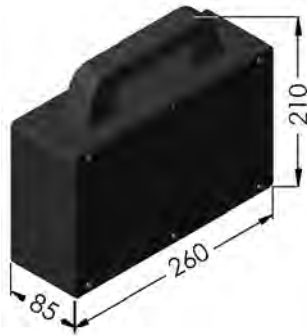
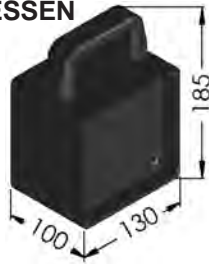


# ELSPRO Solid Rubber Safety Distribution Boxes

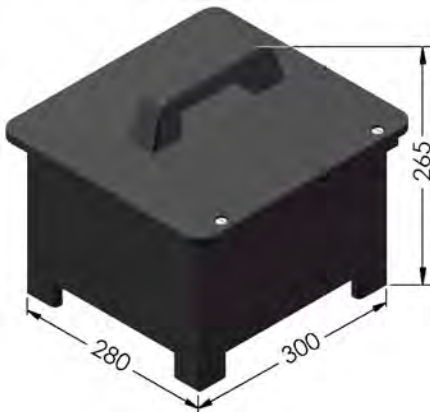
CELLE



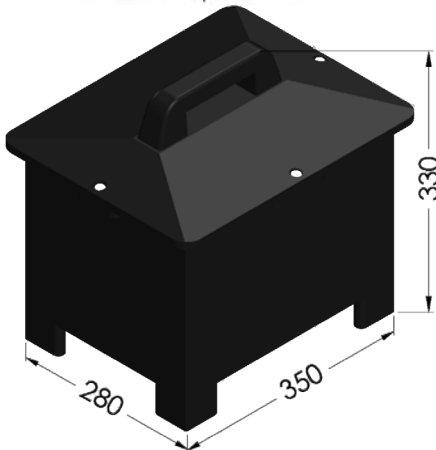
ESSEN



HILDEN



FREIBURG



AACHEN



NÜRNBERG

The solid rubber housing is produced using a press and vulcanization process. In combination with the special material employed, this allows us to achieve those qualities that set this distribution box apart.

## Housing made of top-quality solid rubber (butyl rubber)

- high mechanical resistance, unbreakable
- hardness of at least 96° Shore in accordance with DIN 53505
- resistant to aging and corrosion
- resistant to acid, lye, grease, and oil
- weatherproof and cold-resistant
- self-extinguishing and fire-resistant according to VDE 0471/DIN EN 60695

## Component Features

- VDE-tested connector system
- CEE plug connectors in accordance with VDE 0623/DIN EN 60309 - nickel-plated contact points
- fitted sockets, switches, and all other components are individually exchangeable and fastened using ISO screws
- lid screws made of V2A steel
- rustproof external metal parts

## Features of the Assembled Distribution Box

- splashproof
- dustproof
- highly insulated
- maximum protection (IP 65)
- the externally accessible fuse elements are splashproof thanks to a special transparent, shockproof, and self-locking cover
- in compliance with all technical regulations and with all up-to-date electrotechnical safety standards (VDE)

ELSPRO safety distribution boxes are used in a broad range of industrial sectors, wherever high mechanical demands, extreme operating conditions, and heightened safety requirements call for a custom-tailored solution. We will work with you to plan and assemble the product according to your specific requirements and needs. Feel free to contact us – we're happy to help!

**The Black Outlet**



- to address high demands and safety issues

**Range of Application:**

Workshop, warehouse, commercial kitchen, laboratory, stage, office, among many other application areas



**Models:**

| Input Plug with Cable     | Profile                 | Length      | Output Sockets  | Order Number                     |
|---------------------------|-------------------------|-------------|---|----------------------------------|
| earthing contact<br>230 V | 3 G 1.5 mm <sup>2</sup> | 5 m<br>10 m | 3 sockets with earthing contact<br> | <b>1200030</b><br><b>1200031</b> |
| earthing contact<br>230 V | 3 G 1.5 mm <sup>2</sup> | 5 m<br>10 m | 4 sockets with earthing contact<br> | <b>1200040</b><br><b>1200041</b> |

– Cables in INDUSTRIEFLEX® 07 –

**Special Features:**

- IP 44, highly insulated and splashproof
  - Housing made of polyamide, nylon-reinforced, K2 model
  - Built-in sockets with self-closing hinged lid, 4-point fastening, individually exchangeable
  - for stationary use, the base of the housing features 4 holes to accommodate screws for external mounting
  - dimensions designed for 3 and 4 socket outlets
- SAFE even when used outdoors
  - tread-resistant, shockproof, and impact-resistant, high DURABILITY even under harsh conditions
  - repairs can be made at minimum effort, making it unnecessary to dispose of the entire outlet – COST SAVINGS –
  - simple, stable installation on workbench, office furniture, etc., which heightens the variety of implementation possibilities
  - L 300 mm x W 80 mm x H 68 mm

– other cable lengths and further models on request / subject to modification and errors –

**You demand superior quality!**

Our all-purpose safety distribution box DUISBURG meets your demands – and not only in rough industrial environments. In today’s world, durable and robust safety distribution boxes are needed everywhere – from cafeterias to offices to production settings. And the DUISBURG series caters to both outdoor and indoor working environs.

**Guaranteed to ensure health and safety!**




S. 5.3

**Special Features:**

- large carrying handle
  - stable base
  - housing, handle, and base form a compact unit made of solid rubber
  - highly insulated and splashproof
  - extremely robust, shock-resistant, K2 model
- easy and comfortable to carry, handle prevents improper cable transport
  - sockets have better ground clearance when used in wet areas
  - no need for additional fastening measures, for individual parts will absolutely not come loose **MAINTENANCE-FREE**
  - high level of **SAFETY** outdoors and in moist indoor environments
  - long service life, even under rough operating conditions, which equates to **COST SAVINGS!**

**Models:**

| Input Plug with Cable |     | Output Sockets  | Order Number   |
|-----------------------|-----|---|----------------|
| earthing contact      | 5 m | 4 sockets with earthing contact<br> | <b>1400001</b> |
| CEE 230V 16A 3-pol.   | 5 m |   | <b>1400002</b> |
| CEE 400V 16A 5-pol.   | 3 m |   | <b>1401001</b> |

– other cable lengths and further models on request / subject to modification and errors –

**Solid Rubber Housing**  
Series  
**CELLE**



| Number | Output | Sockets                         | Fuse Protection | Residual Current<br>Circuit Breaker | RCD Type A | Cable | with             | Plug | Order No.      |
|--------|--------|---------------------------------|-----------------|-------------------------------------|------------|-------|------------------|------|----------------|
|        |        | 3 sockets with earthing contact | —               | —                                   |            | 3 m   | earthing contact |      | <b>1000001</b> |
|        |        |                                 |                 |                                     |            | 3 m   | CEE 400V 16A 5p. |      | <b>1001001</b> |
|        |        | 3 CEE 230V 16A 3p.              | —               | —                                   |            | 3 m   | CEE 230V 16A 3p. |      | <b>1001111</b> |
|        |        |                                 |                 |                                     |            | 3 m   | CEE 400V 16A 5p. |      | <b>1001112</b> |



|  |  |  |   |   |  |     |                  |  |                |
|--|--|--|---|---|--|-----|------------------|--|----------------|
|  |  | 1 CEE 400V 16A 5p. and 2 sockets with earthing contact | — | — |  | 3 m | CEE 400V 16A 5p. |  | <b>1001103</b> |
|  |  | 3 CEE 400V 16A 5p.                                     | — | — |  | 3 m | CEE 400V 16A 5p. |  | <b>1001105</b> |
|  |  | 3 CEE 400V 32A 5p.                                     | — | — |  | 3 m | CEE 400V 32A 5p. |  | <b>1003304</b> |



|  |  |                   |   |   |  |     |                 |  |                |
|--|--|-------------------|---|---|--|-----|-----------------|--|----------------|
|  |  | 3 CEE 24V 16A 2p. | — | — |  | 3 m | CEE 24V 16A 2p. |  | <b>1001106</b> |
|  |  | 3 CEE 42V 16A 2p. | — | — |  | 3 m | CEE 42V 16A 2p. |  | <b>1001107</b> |



|  |  |                              |   |   |  |     |                            |  |                |
|--|--|------------------------------|---|---|--|-----|----------------------------|--|----------------|
|  |  | 3 CEE 16A 4p. 10h 100-300 Hz | — | — |  | 3 m | CEE 16A 4p. 10h 100-300 Hz |  | <b>1001108</b> |
|  |  | 3 CEE 16A 4p. 2h 301-500 Hz  | — | — |  | 3 m | CEE 16A 4p. 2h 301-500 Hz  |  | <b>1001109</b> |



|  |  |                    |   |   |  |     |                  |  |                |
|--|--|--------------------|---|---|--|-----|------------------|--|----------------|
|  |  | 3 CEE 500V 16A 4p. | — | — |  | 3 m | CEE 500V 16A 4p. |  | <b>1001110</b> |
|--|--|--------------------|---|---|--|-----|------------------|--|----------------|

– other cable lengths and further models on request / subject to modification and errors –

Configuration Example

Mobile Safety Distribution Boxes



Solid Rubber Housing  
Series  
ESSEN

| Number | Output Sockets | Fuse Protection | RCD Type A Residual Current I <sub>n</sub> | Cable with Plug | Order No. |
|--------|----------------|-----------------|--|-----------------|-----------|
|--------|----------------|-----------------|--|-----------------|-----------|

|                                 |                |   |     |                  |                |
|---------------------------------|----------------|---|-----|------------------|----------------|
| 3 sockets with earthing contact | 3 B-Autom. 1p. | — | 3 m | CEE 400V 32A 5p. | <b>1043001</b> |
| 3 CEE 230V 16A 3p.              | 3 B-Autom. 1p. | — | 3 m | CEE 400V 32A 5p. | <b>1043101</b> |



|                    |                |   |     |                  |                |
|--------------------|----------------|---|-----|------------------|----------------|
| 1 CEE 400V 16A 5p. | 1 C-Autom. 3p  | — | 3 m | CEE 400V 32A 5p. | <b>1043102</b> |
| 1 CEE 400V 16A 5p. | 1 Neokit 3p.   | — | 3 m | CEE 400V 32A 5p. | <b>1023102</b> |
| 1 CEE 500V 16A 4p. | 1 K-Autom. 3p. | — | 3 m | CEE 500V 32A 4p. | <b>1043103</b> |



|                          |                                     |   |     |                  |                |
|--------------------------|-------------------------------------|---|-----|------------------|----------------|
| 1 CEE 400V 16A 5p.       | motor protection circuit breaker 3~ | — | 3 m | CEE 400V 16A 5p. |                |
| <b>Adjustment Range:</b> | 1.6 - 2.4 A                         |   | 3 m |                  | <b>1091101</b> |
|                          | 2.4 - 4.0 A                         |   |     |                  | <b>1091102</b> |
|                          | 4.0 - 6.0 A                         |   | 3 m |                  | <b>1091103</b> |
|                          | 6.0 - 10.0 A                        |   |     |                  | <b>1091104</b> |
|                          | 10.0 - 16.0 A                       |   |     |                  | <b>1091105</b> |



|  |                |   |  |                  |                |
|--|----------------|---|--|------------------|----------------|
| 2 m cable with 1 CEE connector socket 400V 16A 5p. | 1 C-Autom. 3p  | — |  | CEE 400V 32A 5p. | <b>1043105</b> |
|  | 1 Neokit 3p.   | — |  | CEE 400V 32A 5p. | <b>1023104</b> |
|  | 1 C-Autom. 3p. | — |  | CEE 400V 63A 5p. | <b>1046102</b> |
|  | 1 Neokit 3p.   | — |  | CEE 400V 63A 5p. | <b>1026102</b> |



|  |               |   |  |                  |                |
|--|---------------|---|--|------------------|----------------|
| 2 m cable with 1 CEE connector socket 400V 32A 5p. | 1 C-Autom. 3p | — |  | CEE 400V 63A 5p. | <b>1046301</b> |
|  | 1 Neozed 3p.  | — |  | CEE 400V 63A 5p. | <b>1026301</b> |



– other cable lengths and further models on request / subject to modification and errors –

**Solid Rubber Housing**  
Series  
**HILDEN**

| Number | Output | Sockets | Fuse Protection | Residual Current<br>Circuit Breaker<br>RCD Type A | Cable | with | Plug | Order No. |
|--------|--------|---------|-----------------|---|-------|------|------|-----------|
|--------|--------|---------|-----------------|---|-------|------|------|-----------|



|                                 |  |  |   |                 |     |                  |  |                |
|---------------------------------|--|--|---|-----------------|-----|------------------|--|----------------|
| 3 sockets with earthing contact |  |  | — | 25A/30mA/2p.    | 3 m | earthing contact |  | <b>1300060</b> |
| 3 sockets with earthing contact |  |  | — | 3x 25A/30mA/2p. | 3 m | earthing contact |  | <b>1310052</b> |



|                    |  |  |   |              |     |                  |  |                |
|--------------------|--|--|---|--------------|-----|------------------|--|----------------|
| 1 CEE 400V 16A 5p. |  |  | — | 25A/30mA/4p. | 3 m | CEE 400V 16A 5p. |  | <b>1311102</b> |
| 1 CEE 400V 32A 5p. |  |  | — | 40A/30mA/4p. | 3 m | CEE 400V 32A 5p. |  | <b>1313320</b> |



|  |  |              |   |              |     |                  |  |                |
|--|--|--------------|---|--------------|-----|------------------|--|----------------|
| 6 sockets with earthing contact          |  |              | — | 40A/30mA/4p. | 3 m | CEE 400V 16A 5p. |  | <b>1311030</b> |
| 1 CEE 400V 16A 5p.<br>2 earthing contact |  | 2 C-Aut. 1p. | — | 40A/30mA/4p. | 3 m | CEE 400V 16A 5p. |  | <b>1351150</b> |
| 1 CEE 400V 16A 5p.<br>3 earthing contact |  | —            | — | 40A/30mA/4p. | 3 m | CEE 400V 16A 5p. |  | <b>1311160</b> |



|  |  |                              |              |     |                  |  |  |                |
|--|--|------------------------------|--------------|-----|------------------|--|--|----------------|
| 3 sockets with earthing contact          |  | 3 B-Aut. 1p.                 | 40A/30mA/4p. | 3 m | CEE 400V 32A 5p. |  |  | <b>1353030</b> |
| 1 CEE 400V 16A 5p.                       |  | 1 C-Aut. 3p.                 | 40A/30mA/4p. | 3 m | CEE 400V 32A 5p. |  |  | <b>1353130</b> |
| 1 CEE 400V 16A 5p.<br>3 earthing contact |  | 1 C-Aut. 3p.<br>3 B-Aut. 1p. | —            | 3 m | CEE 400V 32A 5p. |  |  | <b>1343130</b> |



|                    |  |              |   |     |                  |  |  |                |
|--------------------|--|--------------|---|-----|------------------|--|--|----------------|
| 1 CEE 400V 16A 5p. |  | 1 C-Aut. 3p. | — | 2 m | CEE 400V 63A 5p. |  |  | <b>1346130</b> |
| 1 CEE 400V 16A 5p. |  | 1 Neozed 3p. | — | 2 m | CEE 400V 63A 5p. |  |  | <b>1326130</b> |
| 1 CEE 400V 32A 5p. |  | 1 C-Aut. 3p. | — | 2 m | CEE 400V 63A 5p. |  |  | <b>1346330</b> |
| 1 CEE 400V 32A 5p. |  | 1 Neozed 3p. | — | 2 m | CEE 400V 63A 5p. |  |  | <b>1326330</b> |

– other cable lengths and further models on request / subject to modification and errors –



| Number | Output Sockets | Fuse Protection | RCD Type A Residual Current I <sub>n</sub> | Cable with Plug | Order No. |
|--------|----------------|-----------------|--|-----------------|-----------|
|--------|----------------|-----------------|--|-----------------|-----------|

|                                 |              |              |     |                  |                |
|---------------------------------|--------------|--------------|-----|------------------|----------------|
| 6 sockets with earthing contact | 6 B-Aut. 1p. | 40A/30mA/4p. | 3 m | CEE 400V 32A 5p. | <b>1753002</b> |
| 6 sockets with earthing contact | 3 Neozed 1p. | 40A/30mA/4p. | 3 m | CEE 400V 32A 5p. | <b>1733005</b> |
| 6 sockets with earthing contact | —            | 40A/30mA/4p. | 3 m | CEE 400V 16A 5p. | <b>1711001</b> |



|   |                                   |              |     |                  |                |
|---|-----------------------------------|--------------|-----|------------------|----------------|
| 1 CEE 400V 32A 5p. and 1 CEE 400V 16A 5p. and 3 sockets with earthing contact | —<br>1 C-Aut. 3p.<br>3 B-Aut. 1p. | 40A/30mA/4p. | 3 m | CEE 400V 32A 5p. | <b>1753308</b> |
| 2 CEE 400V 16A 5p. and 3 sockets with earthing contact                        | 1 C-Aut. 3p.<br>3 B-Aut. 1p.      | 40A/30mA/4p. | 3 m | CEE 400V 32A 5p. | <b>1753102</b> |



|   |  |              |     |                  |                |
|---|--|--------------|-----|------------------|----------------|
| 8 sockets with earthing contact   | 8 B-Aut. 1p.                                 | 40A/30mA/4p. | 3 m | CEE 400V 32A 5p. | <b>1853001</b> |
| 1 CEE 400V 32A 5p. and 2 CEE 400V 16A 5p. and 2 sockets with earthing contact | 1 C-Aut. 3p.<br>1 C-Aut. 3p.<br>2 B-Aut. 1p. | 63A/30mA/4p. | 3 m | CEE 400V 63A 5p. | <b>1856301</b> |



– other cable lengths and further models on request / subject to modification and errors –

| Number | Output Sockets | Fuse Protection | Residual Current Circuit Breaker | RCD Type A | Cable with Plug | Order No. |
|--------|----------------|-----------------|----------------------------------|------------|-----------------|-----------|
|--------|----------------|-----------------|----------------------------------|------------|-----------------|-----------|

|                                 |              |              |    |                  |                |
|---------------------------------|--------------|--------------|----|------------------|----------------|
| 8 sockets with earthing contact | 8 B-Aut. 1p. | 40A/30mA/4p. | 3m | CEE 400V 32A 5p. | <b>1453001</b> |
| 9 sockets with earthing contact | —            | 40A/30mA/4p. | 3m | CEE 400V 16A 5p. | <b>1411004</b> |



|   |                                     |              |    |                  |                |
|---|-------------------------------------|--------------|----|------------------|----------------|
| 2 CEE 400V 16A 5p. and 4 sockets with earthing contact                        | 2 C-Aut. 3p. and 2 B-Aut. 1p.       | 40A/30mA/4p. | 3m | CEE 400V 32A 5p. | <b>1453113</b> |
| 1 CEE 400V 32A 5p. and 2 CEE 400V 16A 5p. and 3 sockets with earthing contact | — and 2 C-Aut. 3p. and 2 B-Aut. 1p. | 40A/30mA/4p. | 3m | CEE 400V 32A 5p. | <b>1453310</b> |



|   |  |              |    |                  |                |
|---|--|--------------|----|------------------|----------------|
| 2 CEE 400V 32A 5p. and 1 CEE 400V 16A 5p. and 3 sockets with earthing contact | 2 C-Aut. 3p. and 1 C-Aut. 3p. and 3 B-Aut. 1p. | 63A/30mA/4p. | 3m | CEE 400V 63A 5p. | <b>1456346</b> |
| 2 CEE 400V 32A 5p. and 1 CEE 400V 16A 5p. and 4 sockets with earthing contact | — and 1 Neokit 3p. and 4 Neokit 1p.            | 40A/30mA/4p. | 3m | CEE 400V 32A 5p. | <b>1433310</b> |



|  |  |              |    |                  |                |
|--|--|--------------|----|------------------|----------------|
| 1 CEE 400V 63A 5p. and 1 CEE 400V 32A 5p. and 1 CEE 400V 16A 5p. and 3 sockets with earthing contact | — and 1 C-Aut. 3p. and 1 C-Aut. 3p. and 2 B-Aut. 1p. | 63A/30mA/4p. | 3m | CEE 400V 63A 5p. | <b>1456612</b> |
|--|--|--------------|----|------------------|----------------|



– other cable lengths and further models on request / subject to modification and errors –

stackable versions on request



Fig. 1



Fig. 2

with internal protective device

with colored lid on request



**SPECIAL FEATURES:**

- hinge with a solid V2A axis
  - 2 M6 screws made of V2A steel, undetachable, guaranteeing secure and easy closure of the distribution box
  - four sturdy feet provide 30 mm floor clearance and a firm foothold (Fig. 1)
  - protection guards are arranged clearly under the lid, protecting against accidental contact (Fig. 2)
  - on request: 2 star-handle screws, undetachable, for opening the box without tools (Fig. 3)
  - designed to accommodate a closing mechanism (Fig. 3)
  - inclined and overhanging lid that is also furnished with a rain deflector spanning all sides
  - large, stable carrying handle
  - the inside of the distribution box also displays a clear, maintenance-friendly design
- lid functionality is guaranteed, even when implemented under rough conditions and high mechanical strain
  - protection guards cannot be tampered with by unauthorized persons - SAFETY
  - perfectly suited to nearly all ground conditions
  - live parts cannot be touched, facilitating easy and safe operation
  - trained personnel have quick access to the safety devices - TIME SAVINGS
  - only key holders can open the distribution box
  - rain and spray water cannot build up on the housing
  - thanks to a special shape (recessed grip), the distribution box is comfortable and safe to carry during transport
  - maintenance work can be carried out quickly and simply - COST SAVINGS



with colored engraving on request



Fig. 3

with star-handle screws on request

with a padlock on request

| Number | Output Sockets | Fuse Protection | Residual Current Circuit Breaker | RCD Type A | Cable | with | Plug | Order No. |
|--------|----------------|-----------------|----------------------------------|------------|-------|------|------|-----------|
|--------|----------------|-----------------|----------------------------------|------------|-------|------|------|-----------|

|   |   |                   |                   |                   |         |        |   |                                  |
|---|---|-------------------|-------------------|-------------------|---------|--------|---|----------------------------------|
| 1 CEE 400V 63A 5p. and<br>2 CEE 400V 32A 5p. and<br>2 CEE 400V 16A 5p. and<br>3 sockets with earthing contact | —<br>2 C-Aut. 3p.<br>1 C-Aut. 3p.<br>2 B-Aut. 1p. | —<br>63A/30mA/4p. | —<br>63A/30mA/4p. | —<br>63A/30mA/4p. | 3m<br>— | —<br>— | CEE 400V 63A 5p. or with connector plug | <b>1956601</b><br><b>1956602</b> |
| 1 CEE 400V 63A 5p. and<br>1 CEE 400V 32A 5p. and<br>2 CEE 400V 16A 5p. and<br>8 sockets with earthing contact | —<br>1 C-Aut. 3p.<br>2 C-Aut. 3p.<br>4 B-Aut. 1p. | —<br>63A/30mA/4p. | —<br>63A/30mA/4p. | —<br>63A/30mA/4p. | 3m<br>— | —<br>— | CEE 400V 63A 5p. or with connector plug | <b>1956603</b><br><b>1956604</b> |



|  |  |                                 |                                 |                                 |           |        |   |                                  |
|--|--|---------------------------------|---------------------------------|---------------------------------|-----------|--------|---|----------------------------------|
| 2 CEE 400V 32A 5p. and<br>2 CEE 400V 16A 5p. and<br>6 sockets with earthing contact                    | 2 C-Aut. 3p.<br>2 C-Aut. 3p.<br>6 B-Aut. 1p. | —<br>63A/30mA/4p. <sup>1)</sup> | —<br>63A/30mA/4p. <sup>1)</sup> | —<br>63A/30mA/4p. <sup>1)</sup> | 3m<br>--- | —<br>— | CEE 400V 63A 5p. or with connector plug | <b>1956301</b><br><b>1956302</b> |
| 1 CEE 400V 32A 5p. and<br>2 CEE 400V 16A 5p. and<br>6 sockets with earthing contact                    | —<br>2 C-Aut. 3p.<br>6 B-Aut. 1p.            | —<br>40A/30mA/4p. <sup>1)</sup> | —<br>40A/30mA/4p. <sup>1)</sup> | —<br>40A/30mA/4p. <sup>1)</sup> | 3m<br>--- | —<br>— | CEE 400V 32A 5p. or with connector plug | <b>1953301</b><br><b>1953302</b> |
| 2 CEE 400V 16A 5p. and<br>— waterproof —<br>6 sockets with earthing contact<br>— water-pressure-tight— | 2 C-Aut. 3p.<br>6 B-Aut. 1p.                 | —<br>40A/30mA/4p.               | —<br>40A/30mA/4p.               | —<br>40A/30mA/4p.               | 3m        | —<br>— | CEE 400V 32A 5p. or with — waterproof — | <b>1953101</b>                   |



— other cable lengths and further models on request / subject to modification and errors —

1) externally accessible

stackable versions with folding handle on request



Fig. 1



Fig. 2

with internal protective device

with colored lid on request



**SPECIAL FEATURES:**

- hinge with a solid V2A axis
  - 3 M6 screws made of V2A steel, undetachable, guaranteeing secure and easy closure of the distribution box
  - 4 sturdy feet provide 40 mm floor clearance and a firm foothold (Fig. 1)
  - protection guards are arranged clearly under the lid, protecting against accidental contact (Fig. 2)
  - on request: 3 star-handle screws, undetachable, for opening the box without tools (Fig. 3)
  - designed to accommodate a closing mechanism (Fig. 4)
  - inclined and overhanging lid that is also furnished with a rain deflector spanning all sides
  - large, stable carrying handle
  - the inside of the distribution box also displays a clear, maintenance-friendly design
- lid functionality is guaranteed, even when implemented under rough conditions and high mechanical strain
  - protection guards cannot be tampered with by unauthorized persons - SAFETY
  - perfectly suited to nearly all ground conditions
  - live parts cannot be touched, facilitating easy and safe operation
  - trained personnel have quick access to the safety devices - TIME SAVINGS
  - only key holders can open the distribution box
  - rain and spray water cannot build up on the housing
  - thanks to recessed grips the distributor sits comfortably and securely in the hand during transport
  - maintenance work can be carried out quickly and simply - COST SAVINGS



Fig. 3

with star-handle screws on request

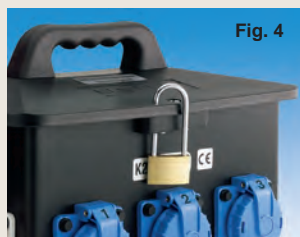


Fig. 4

with a padlock on request

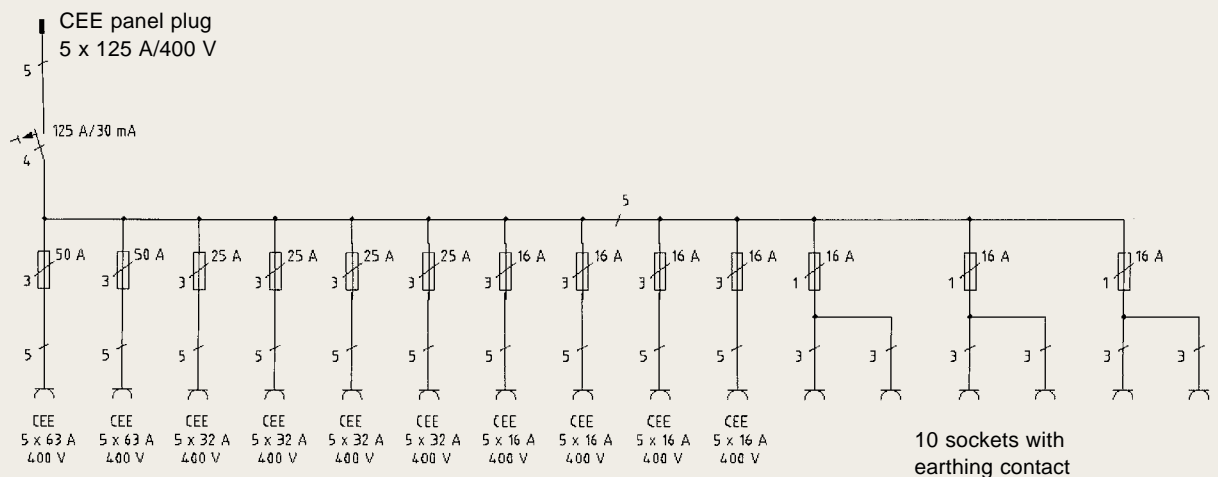
**The Giant**

- its special construction form together with generous dimensions of 400 x 400 x 275 mm turn the NÜRNBERG series into an ALL-ROUNDER among mobile power distribution boxes
- it's our favorite for feeds of up to 250 A
- the NÜRNBERG series attains its unique style through the frontal array of sockets and the access points for safety and protective devices to the
- an absolute must for all construction and installation sites with high energy demands rear



**Configuration examples 1 and 2 of over 300 already assembled varieties**

| Output/Sockets   | Fuse Protection  | RCD Type A<br>I <sub>n</sub> I <sub>Δn</sub> | Infeed Input  | Order No.                            |
|--|--|--|---|--------------------------------------|
| 1 CEE 400V 63 A 5p.<br>2 CEE 400V 32 A 5p.<br>2 CEE 400V 16 A 5p.<br>2 CEE 230V 16 A 3p.<br>10 sockets with earthing contact | —<br>2 C-Autom. 3p.<br>2 C-Autom. 3p.<br>2 B-Autom. 1p.<br>10 B-Autom. 1p. | 63 A/30 mA/4p.                               | panel plug<br>400 V 63 A 5pol.<br>or<br>3 m feed cable<br>with CEE plug<br>400 V 63 A 5pol. | <b>1656602</b><br><br><b>1656601</b> |



— other cable lengths and further models on request / subject to modification and errors —



the shockproof Lexan transparent hinged windows are mounted flush to the lid, which offers protection

Infeed into the distribution box according to customer needs, e.g., lines with plugs, special MC connector system, power lock, etc.



#### Profile:

- with built-in three-phase meter for in-house cost determination
- with built-in digital or analog gauges, e.g., for measuring time, current, and voltage
- distribution box can be stacked using 2 side-mounted carrying handles (optional)
- with colored engraving for absolutely clear identification of ownership
- stable positioning facilitated through a base with symmetrically arranged grooves to ensure reinforcement and strength
- other typical features on request

#### Special Features:


- 2 different lids are available
  - you select the solution that optimally suits your needs PRACTICABILITY
- 1 closed lid for the version with fuse protection situated inside, whereby up to 30 Neozed safety fuses can be mounted under the lid
  - fuse replacement is possible (though only by a specialized electrician) after opening the lid with a tool - SAFETY
- 1 lid with 2 shockproof Lexan transparent hinged windows for the versions with fuse protection accessible from the outside; behind the windows there is room for fuses and serial panel plugs of up to 24 TE
  - easy and accidental-contact-protected access to the safety and protective devices thanks to flip-open windows - TIME SAVINGS
- 9 hex bolts M8 X 15 made of V2A steel guarantee secure opening and closing of the lid
  - no-rust screws that can be loosened even after years - MAINTENANCE FREE
- large solid-rubber carrying handles with full-length steel reinforcement, especially suited to transport
  - handles withstand even heavy strain and will not tear - SAFETY
- a broad number of diverse transport frames, shafts, carts, etc., significantly enhances usability
  - an individual approach to easy and secure transport is possible, as well as safe mounting - MULTI-DISTRIBUTOR

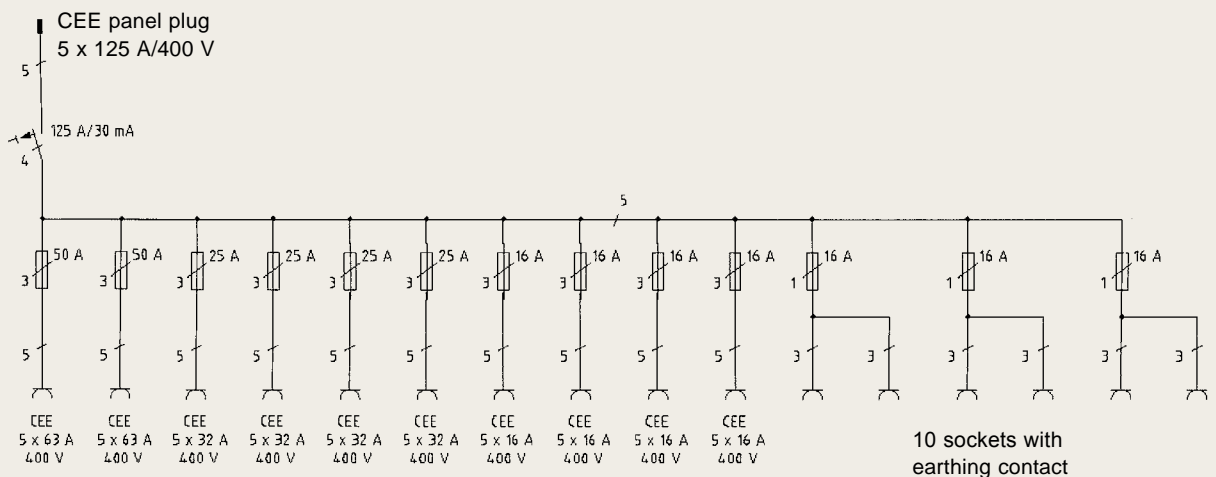
**The Giants on Wheels**

- up to 3 housings can be combined  
e.g., NÜRNBERG - NÜRNBERG (see fig.)  
NÜRNBERG - WIESBADEN  
NÜRNBERG - TRIER
- the selection of possible versions doubles
- all trolleys are protected against corrosion; plastic powder coating of all iron and steel components has proven to be especially effective; color used is blue, RAL 5013
- 2 wheels of solid rubber, each 200 mm in diameter and ball-bearing mounted, facilitate smooth and effortless movement of the distribution boxes, even on rough stretches
- the center of gravity during transport is optimally situated above the axle midpoint; only one person is needed to transport the box safely, easily, and without any (weight-related) health risks
- extra wide radii for hand navigation and bends additionally enhance trolley safety
- various different wheels are also available



**Configuration examples 1 and 2 of over 300 already assembled varieties**

| Output/Sockets  | Fuse Protection   | RCD Type A<br> | Infeed Input                    | Order No.      |
|---|---|---|---------------------------------|----------------|
| 2 CEE 400V 63 A 5p.<br>4 CEE 400V 32 A 5p.<br>4 CEE 400V 16 A 5p.<br>10 sockets with earthing contact | 2 Neozed 3p.<br>4 Neozed 3p.<br>5p. 4 Neozed 3p.<br>3 Neozed 1p.<br>— fuses situated inside — | 125 A/30 mA/4p.   | panel plug<br>125 A 400 V 5pol. | <b>1637601</b> |



— other cable lengths and further models on request / subject to modification and errors —



**The XXL Distribution Box**

The stable base frame and the generous clearance are just two of the many outstanding features that distinguish the HAMBURG distribution box.

Additionally, more than one connection housing can be installed under the distribution box (see fig.). This significantly enhances the technical possibilities.

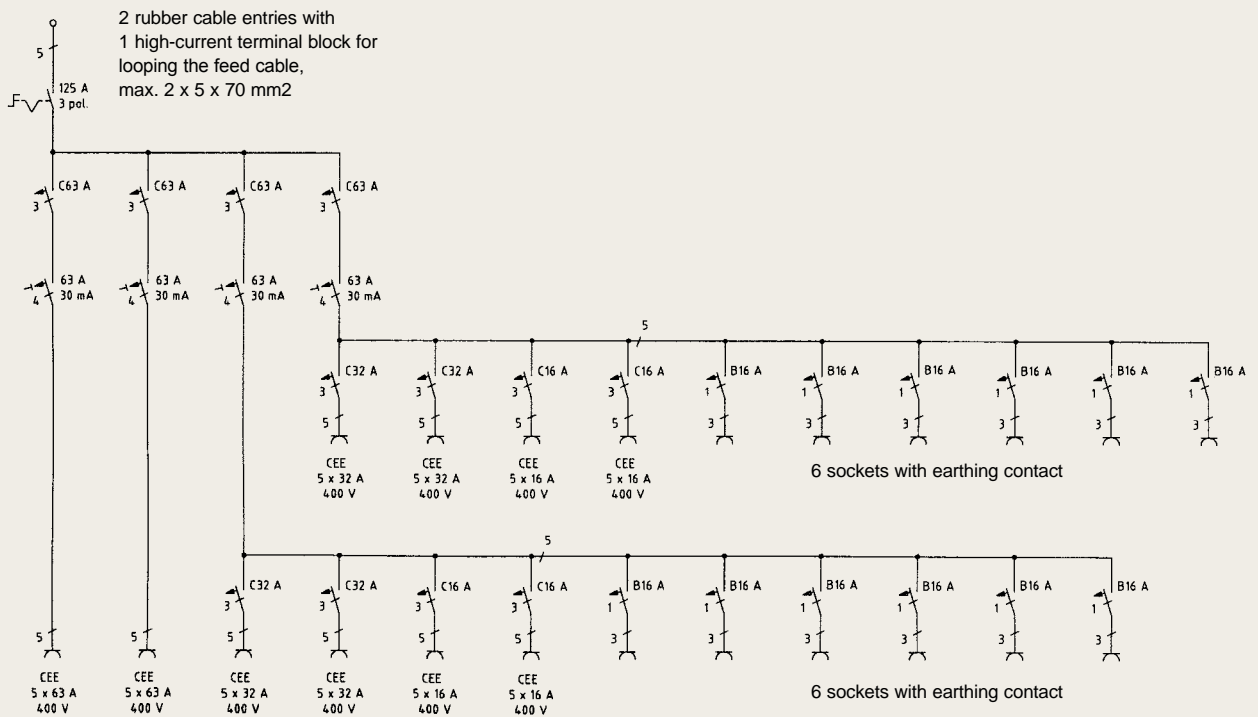
5.150 cm<sup>2</sup> of area are available for individual configurations and serve to facilitate the implementation of complex application profiles.

Frame design is adaptable to individual demands, including a trolley version.

These features make HAMBURG the No. 1 XXL series among mobile power distributors.



**Dimensions:** footprint 80 cm x 80 cm  
overall height 112,5 cm



— The overhanging lid serves to deflect rain and is connected to the base by 16 V2A hex bolts, M8 x 20 mm.

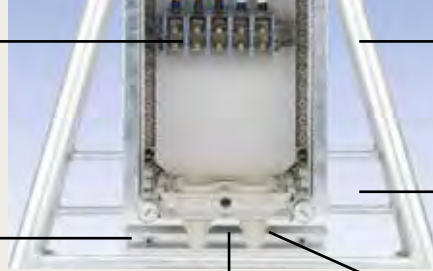


— Residual current protection guards and automats are designed to be accessible from the outside, splashproof, protected behind transparent hinged windows, self-closing, and additionally secured with knurled-head screws.



— one high-current terminal block for laying max. 2 cables/lines, cross-section 5 x 70 mm<sup>2</sup>, with ring cable lugs of 8 mm Ø

— Halfen anchoring system for mounting clips



— the tubular steel frame is hot-dip galvanized - other models on request -

— featuring double crossbars for secure transport with a forklift

— 2 cable entry grommets

— various housings and configurations in the product range

**Configuration Example**

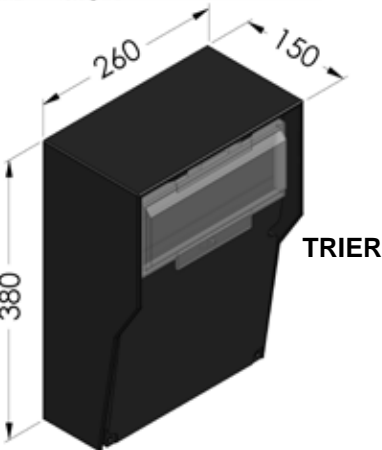
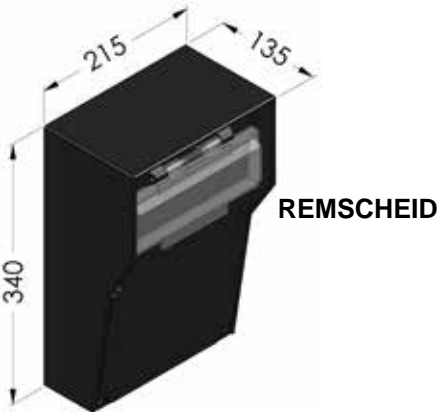
| Output/Sockets  | Fuse Protection   | RCD Type A<br>I <sub>n</sub> I <sub>Δn</sub> | Infeed max. 125 A<br>Input  | Order No.      |
|---|---|--|---|----------------|
| 2 CEE 400V 63 A 5p.<br>4 CEE 400V 32 A 5p.<br>4 CEE 400V 16 A 5p.<br>12 sockets with earthing contact | 2 C-Autom. 3p.<br>4 C-Autom. 3p.<br>4 C-Autom. 3p.<br>12 B-Autom. 1p.<br>2 C-Autom. 3p.<br>— backup fuses — | 4 x<br><br>63A/30 mA/4p.                     | 2 high-current terminal block for laying<br>1 high-current terminal block for laying<br>2 cables/lines<br>max. 5 x 70 mm <sup>2</sup> | <b>1559601</b> |

— other cable lengths and further models on request / subject to modification and errors —

# Stationary Power Distribution Boxes – Solid Rubber and Wall-Mounted



# ELSPRO Solid Rubber Safety Distribution Boxes



## Housing made of top-quality solid rubber (butyl rubber)

- high mechanical resistance, unbreakable
- hardness of at least 96° Shore in accordance with DIN 53505
- resistant to aging and corrosion
- resistant to acid, lye, grease, and oil
- weatherproof and cold-resistant
- self-extinguishing and fire-resistant according to VDE 0471/DIN EN 60695

## Component Features

- VDE-tested connector system
- CEE plug connectors in accordance with VDE 0623/DIN EN 60309 - nickel-plated contact points
- fitted sockets, switches, and all other components are individually exchangeable and fastened using ISO screws
- lid screws made of V2A steel
- rustproof external metal parts

## Features of the Assembled Distribution Box

- splashproof
- dustproof
- highly insulated
- maximum protection (IP 65)
- the externally accessible fuse elements are splashproof thanks to a special transparent, shockproof, and self-locking cover
- in compliance with all technical regulations and with all up-to-date electrotechnical safety standards (VDE)

ELSPRO safety distribution boxes are used in a broad range of industrial sectors, wherever high mechanical demands, extreme operating conditions, and heightened safety requirements call for a custom-tailored solution. We will work with you to plan and assemble the product according to your specific requirements and needs. Feel free to contact us – we're happy to help!

| Number | Output Sockets | Fuse Protection or Equipment | RCD Type A Residual Current Breaker | Entry Screw Size | Order No. |
|--------|----------------|------------------------------|-------------------------------------|------------------|-----------|
|--------|----------------|------------------------------|-------------------------------------|------------------|-----------|

|  |                |   |              |      |                |
|--|----------------|---|--------------|------|----------------|
| 4 sockets with earthing contact                        | —              | — | 25A/30mA/2p. | M 20 | <b>2018001</b> |
| 1 CEE 400V 16A 5p. and 4 sockets with earthing contact | —              | — | —            | M 20 | <b>2008101</b> |
| 1 CEE 400V 32A 5p. and 2 sockets with earthing contact | 2 B-Autom. 1p. | — | —            | M 20 | <b>2048301</b> |



|  |                           |   |   |                         |                |
|--|---------------------------|---|---|-------------------------|----------------|
| 4 sockets with earthing contact                        | — quick-release connector | — | — | M 20<br>1/2 inch thread | <b>2008001</b> |
| 1 CEE 400V 16A 5p. and 3 sockets with earthing contact | — quick-release connector | — | — | M 20<br>1/2 inch thread | <b>2008102</b> |



|  |                |   |             |      |                |
|--|----------------|---|-------------|------|----------------|
| 2 sockets with earthing contact                        | —              | — | 25A/30mA/2p | M 20 | <b>2018002</b> |
| 1 CEE 400V 16A 5p. and 2 sockets with earthing contact | —              | — | —           | M 20 | <b>2008103</b> |
| 1 CEE 400V 32A 5p. and 2 sockets with earthing contact | 2 B-Autom. 1p. | — | —           | M 20 | <b>2048302</b> |



|                    |                                   |   |   |      |                |
|--------------------|-----------------------------------|---|---|------|----------------|
| 1 screw sized M 25 | main switch<br>40A<br>400V 3 ~    | — | — | M 25 | <b>2008801</b> |
| 1 screw sized M 20 | reverse switch<br>40A<br>400V 3 ~ | — | — | M 25 | <b>2008802</b> |
| 1 screw sized M 20 | emergency push button             | — | — | M 25 | <b>2008804</b> |



– other cable lengths and further models on request / subject to modification and errors –



**Solid Rubber Housing**

Series  
**HILDEN**

Configuration Example

**Suspension and Wall-mounted Distribution Boxes**



| Number | Output | Sockets                         | Fuse Protection or Equipment | RCD Type A / Residual Current Circuit Breaker | Entry | Screw Size | Order No.      |
|--------|--------|---------------------------------|------------------------------|---|-------|------------|----------------|
|        |        | 2 sockets with earthing contact | —                            | 25A/30mA/2p.                                  | M 20  |            | <b>2318073</b> |
|        |        | 3 sockets with earthing contact | —                            | 25A/30mA/2p.                                  | M 20  |            | <b>2318072</b> |
|        |        | 3 sockets with earthing contact | —                            | 40A/30mA/4p.                                  | M 20  |            | <b>2318070</b> |
|        |        | 4 sockets with earthing contact | 4 B-Autom. 1p.               | —   | M 25  |            | <b>2348030</b> |



|  |  |   |                     |              |      |  |                |
|--|--|---|---------------------|--------------|------|--|----------------|
|  |  | 1 CEE 400V 16A 5p.<br>2 sockets with earthing contact | —<br>2 B-Autom. 1p. | 40A/30mA/4p. | M 32 |  | <b>2358150</b> |
|  |  | 1 CEE 400V 32A 5p.<br>2 sockets with earthing contact | —<br>2 B-Autom. 1p. | 40A/30mA/4p. | M 32 |  | <b>2358314</b> |



|  |  |                    |   |              |      |  |                |
|--|--|--------------------|---|--------------|------|--|----------------|
|  |  | 1 CEE 400V 16A 5p. | — | 40A/30mA/4p. | M 20 |  | <b>2318160</b> |
|  |  | 1 CEE 400V 32A 5p. | — | 40A/30mA/4p. | M 25 |  | <b>2318320</b> |



|  |  |                    |   |              |      |  |                |
|--|--|--------------------|---|--------------|------|--|----------------|
|  |  | 1 screw sized M 25 | — | 40A/30mA/4p. | M 25 |  | <b>2318830</b> |
|  |  | 1 screw sized M 32 | — | 63A/30mA/4p. | M 32 |  | <b>2318840</b> |

– other cable lengths and further models on request / subject to modification and errors –



**Solid Rubber Housing**  
Series  
**REMSCHIED**

| Number | Output Sockets | Fuse Protection or Equipment | RCD Type A Residual Current Circuit Breaker | Entry | Screw Size | Order No. |
|--------|----------------|------------------------------|---|-------|------------|-----------|
|--------|----------------|------------------------------|---|-------|------------|-----------|

|                                 |                |              |      |                |
|---------------------------------|----------------|--------------|------|----------------|
| 6 sockets with earthing contact | 6 B-Autom. 1p. | 40A/30mA/4p. | M 25 | <b>2758010</b> |
| 6 sockets with earthing contact | 6 Neokit 1p.   | 40A/30mA/4p. | M 25 | <b>2738002</b> |
| 6 sockets with earthing contact | 9 B-Autom. 1p. | —            | M 25 | <b>2748001</b> |



|  |                                  |              |      |                |
|--|----------------------------------|--------------|------|----------------|
| 1 CEE 400V 16A 5p. and 3 sockets with earthing contact | 1 C-Autom. 3p.<br>3 B-Autom. 1p. | 40A/30mA/4p. | M 25 | <b>2758144</b> |
| 1 CEE 400V 32A 5p. and 3 sockets with earthing contact | 1 C-Autom. 3p.<br>3 B-Autom. 1p. | 63A/30mA/4p. | M 32 | <b>2758350</b> |
| 1 CEE 400V 16A 5p. and 3 sockets with earthing contact | 1 Neokit 3p.<br>3 Neokit 1p.     | 40A/30mA/4p. | M 25 | <b>2738115</b> |



|   |  |              |      |                |
|---|--|--------------|------|----------------|
| 1 CEE 400V 32A 5p. and 1 CEE 400V 16A 5p. and 3 sockets with earthing contact | —<br>1 C-Autom. 3p.<br>3 B-Autom. 1p.              | 40A/30mA/4p. | M 32 | <b>2758340</b> |
| 1 CEE 400V 32A 5p. and 1 CEE 400V 16A 5p. and 3 sockets with earthing contact | 1 C-Autom. 3p.<br>1 C-Autom. 3p.<br>3 B-Autom. 1p. | —            | M 32 | <b>2748302</b> |



|  |                     |              |      |                |
|--|---------------------|--------------|------|----------------|
| 1 CEE 400V 63A 5p. and 2 sockets with earthing contact | —<br>2 B-Autom. 1p. | 63A/30mA/4p. | M 32 | <b>2758607</b> |
| 1 CEE 400V 63A 5p.                                     | 1 C-Autom. 3p.      | 63A/30mA/4p. | M 32 | <b>2758601</b> |
| 1 CEE 400V 63A 5p.                                     | —                   | 63A/30mA/4p. | M 32 | <b>2718601</b> |



– other cable lengths and further models on request / subject to modification and errors –



**Solid Rubber Housing**  
Series  
**TRIER**

Configuration Example

**Suspension and wall-mounted distribution boxes**



| Number                           | Output | Sockets         | Fuse Protection or Equipment | Residual Current Circuit Breaker RCD Type A | Entry Screw Size | Order No.      |
|----------------------------------|--------|-----------------|------------------------------|---|------------------|----------------|
| 8 sockets with earthing contact  |        | 8 B-Autom. 1p.  | 40A/30mA/4p.                 |   | M 25             | <b>2858001</b> |
| 12 sockets with earthing contact |        | 12 B-Autom. 1p. | —                            |   | M 25             | <b>2848001</b> |



|   |  |              |      |                |
|---|--|--------------|------|----------------|
| 1 CEE 400V 32A 5p. and 1 CEE 400V 16A 5p. and 4 sockets with earthing contact | 1 C-Autom. 3p.<br>1 C-Autom. 3p.<br>2 B-Autom. 1p. | 63A/30mA/4p. | M 32 | <b>2858301</b> |
| 2 CEE 400V 16A 5p. and 4 sockets with earthing contact                        | 2 C-Autom. 3p.<br>2 B-Autom. 1p.                   | 63A/30mA/4p. | M 32 | <b>2858153</b> |



|   |  |              |      |                |
|---|--|--------------|------|----------------|
| 1 CEE 400V 32A 5p. and 1 CEE 400V 16A 5p. and 2 sockets with earthing contact | 1 C-Aut. 3p.<br>1 C-Aut. 3p.<br>2 B-Aut. 1p.       | 63A/30mA/4p. | M 32 | <b>2858316</b> |
| 1 CEE 400V 32A 5p. and 1 CEE 400V 16A 5p. and 6 sockets with earthing contact | 1 C-Autom. 3p.<br>1 C-Autom. 3p.<br>6 B-Autom. 1p. | —            | M 32 | <b>2848301</b> |

– further models on request / subject to modification and errors –





**Solid Rubber Housing**  
Series  
**TRIER**

| Number | Output Sockets | Fuse Protection or Equipment | RCD Type A Residual Current | Entry | Screw Size | Order No. |
|--------|----------------|------------------------------|-----------------------------|-------|------------|-----------|
|--------|----------------|------------------------------|-----------------------------|-------|------------|-----------|

|   |  |              |  |  |      |                |
|---|--|--------------|--|--|------|----------------|
| 1 CEE 400V 32A 5p. and<br>2 CEE 400V 16A 5p. and<br>2 sockets with earthing contact | 1 C-Autom. 3p.<br>1 C-Autom. 3p.<br>2 B-Autom. 1p. | 63A/30mA/4p. |  |  | M 32 | <b>2858374</b> |
| 1 CEE 400V 32A 5p. and<br>2 CEE 400V 16A 5p. and<br>2 sockets with earthing contact | 1 C-Autom. 3p.<br>1 C-Autom. 3p.<br>2 B-Autom. 1p. | —            |  |  | M 32 | <b>2848302</b> |



|   |   |              |  |  |      |                |
|---|---|--------------|--|--|------|----------------|
| 1 CEE 400V 63A 5p. and<br>1 CEE 400V 32A 5p. and<br>1 CEE 400V 16A 5p. and<br>2 sockets with earthing contact | —<br>1 C-Autom. 3p.<br>1 C-Autom. 3p.<br>2 B-Autom. 1p. | 63A/30mA/4p. |  |  | M 32 | <b>2858601</b> |
|---|---|--------------|--|--|------|----------------|



|                    |               |   |  |  |      |                |
|--------------------|---------------|---|--|--|------|----------------|
| 4 CEE 400V 16A 5p. | 4 C-Autom 3p. | — |  |  | M 32 | <b>2848125</b> |
| 4 CEE 400V 32A 5p. | 4 C-Autom 3p. | — |  |  | M 32 | <b>2848303</b> |



– other cable lengths and further models on request / subject to modification and errors –



- Lexan transparent hinged windows
  - V2A axis, 6 mm Ø
  - stainless-steel spring with high elastic force
  - with knurled-head screws on request

The solid rubber housing is produced using a press and vulcanization process. In combination with the special material employed, this allows us to achieve those qualities that set this distribution box apart.

Dimensions: H 380 mm, W 260 mm, D 150 mm

**Special Features:**

- over 600 already produced versions guarantee a custom-tailored solution on demand
- no compromises  
**PRACTICABILITY**
- interior space allows cross-sections to be connected (up to 35 mm<sup>2</sup>) and 2 cables to be laid (5 x 35 mm<sup>2</sup>) - feed and outgoing lines
- the supply cables can be honed, which enables one to do without additional junction boxes  
**TIME AND COST SAVINGS**
- 6 undetachable lid screws made of V2A steel allow the lid to be attached to the base tightly and securely
- no-rust screws that can be loosened anytime -  
**MAINTENANCE FREE**
- under the impact-resistant Lexan transparent hinged windows there is room for panel plugs and fuses up to max. 12 TE
- measures for safeguarding people, devices, and cables as well as short-circuit protection all conform to valid regulations  
**SAFETY**
- protruding housing sections in the window area protect the window against mechanical damage
- no additional protective cover necessary  
**COST REDUCTION**
- wall-mounted distribution boxes are available with a broad range of options: shafts, racks, tripods, and wall-mounted consoles; hot-dip galvanized, painted, or plastic-powder-coated; made of steel or V2A steel; various sizes and forms
- **ENERGY ISLANDS** for all purposes and sites. Optimally suited for outdoor use as well.  
**LONG SERVICE LIFE** guaranteed

**ACCESSORIES:**

- V2A wall-mounting brackets (pre-installed on request)

**The Giant You demand superior quality!**

Our wall-mounted distribution boxes meet your demands.

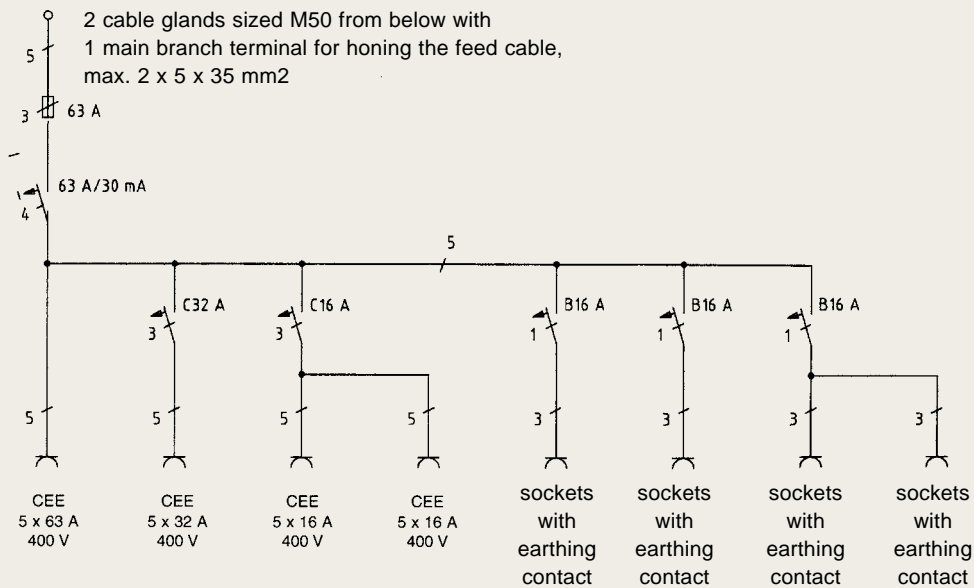
In all sectors - industry, trade, and commerce - sockets are needed that prove to be durable, sturdy, and safe.

Our wall-mounted distribution boxes are suitable for both indoor and outdoor use.

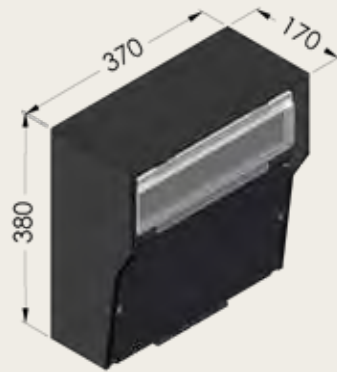


**Configuration examples 1 and 2 of over 130 already assembled varieties**

| Output/Sockets   | Fuse Protection  | RCD Type A<br>I <sub>n</sub> I <sub>Δn</sub> | Entry<br>Screw Size   | Order No.                              |
|--|--|--|---|--|
| 1 CEE 400V 63 A 5p.<br>1 CEE 400V 32 A 5pol.<br>2 CEE 400V 16 A 5pol.<br>4 sockets with earthing contact | 1 Neozed 3p.<br>1 C-Autom. 3p.<br>1 C-Autom. 3p.<br>3 B-Autom. 1p. | 63 A/30 mA/4p.                               | 1 x M50<br>or<br>2 x M50<br>with main branch terminal<br>2 x 5 x 35 mm <sup>2</sup> | <b>28786002</b><br><br><b>28786001</b> |



– other cable lengths and further models on request / subject to modification and errors –



- V2A axis, 6 mm Ø
- stainless-steel spring with high elastic force
- undetachable knurled-head screws



The solid rubber housing is produced using a press and vulcanization process. In combination with the special material employed, this allows us to achieve those qualities that set this distribution box apart.

**Special Features:**

- over 130 configurations guarantee a solution for (almost) every operating site
  - generous interior space and a depth of 95 mm allow for the connection of large cross-sections and for the installation of feed and outgoing lines
  - a hinged lid facilitates unimpeded access during installation and maintenance work
  - 9 undetachable lid screws made of V2A steel ensure that the lid is securely fastened to the base
  - over 130 configurations guarantee a solution for (almost) every operating site
  - under the impact-resistant Lexan transparent hinged windows there is room for panel plugs and fuses up to max. 18 TE
  - protruding housing sections in the window area offer enhanced protection for the window
  - wall thickness of up to 15 mm and the special material employed make the distribution box extremely mechanically sturdy and impact-resistant
- no compromises  
PRACTICABILITY
  - junction boxes no longer necessary  
COST SAVINGS
  - TIME SAVINGS
  - the distribution box can be effortlessly opened and closed, even after years have passed
  - measures for safeguarding people and cables as well as short-circuit protection all conform to valid regulations
  - measures for safeguarding people and cables as well as short-circuit protection all conform to valid regulations
  - no additional protective cover necessary
  - long service life, even under rough operating conditions

- further models on request / subject to modification and errors -

# Safety and Isolation Transformers in Solid Rubber Housing



# ELSPRO Solid Rubber Distribution Boxes with Transformers

## Safety Transformers and Isolation Transformers according to VDE 0570 / DIN EN 61558

### - Housing Features

- made of top-quality solid rubber (butyl rubber)
- high mechanical resistance, unbreakable
- hardness of at least 96 Shore in accordance with DIN 53505
- resistant to aging and corrosion
- weatherproof and cold-resistant
- self-extinguishing and fire-resistant according to VDE 0471/DIN EN 60695

### - Transformer Selection

- one-phase transformers or multi-phase transformers
- input voltage 12 V to 500 V
- output voltage 12 V to 500 V
- nominal capacity 120 VA to 4500 VA

### - Primary Safeguards

- activating a thermal overcurrent circuit breaker matched to the primary current
- optimal transformer protection in the case of an overload or short circuit
- reliable switch performance thanks to special switching mechanism
- positively trip-free mechanism
- switch reset at the press of an external button after error has been corrected

### - Secondary Safeguards

- fuses assigned to output sockets
- choice of line circuit breaker or safety fuse systems
- accessible both externally and internally

### - Connector Systems

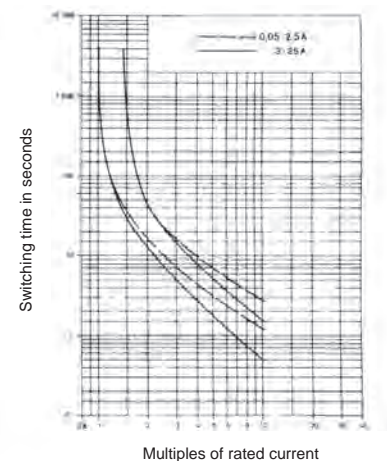
- VDE tested and approved
- nickel-plated contacts
- individually exchangeable
- fastened with ISO bolts

### - Features of Assembled Distribution Boxes

- splashproof
- highly insulated
- dustproof
- lid screws made of V2A steel
- rustproof external metal parts

- with colored engraving on request, e.g. company name

Time-current characteristic (total switch-off time at nominal voltage) Ambient temperature 23°C



# Safety Transformers

from 120VA-4500VA



Mobile Protection Class 2



Volt-Ampere  
Power

Input\*  
Voltage ~

Output  
Voltage ~

No.

Sockets  
Output

Input



Output



Order No.

CE **K2**  
**Solid Rubber Housing**  
Series

|        |      |     |                 |      |   |                |
|--------|------|-----|-----------------|------|---|----------------|
| 120 VA | 230V | 24V | CEE 24V 16A 2p. | 0,5A | — | <b>3080101</b> |
| 120 VA | 230V | 42V | CEE 42V 16A 2p. | 0,5A | — | <b>3080102</b> |



|        |      |     |                   |      |   |                |
|--------|------|-----|-------------------|------|---|----------------|
| 160 VA | 230V | 24V | 1 CEE 24V 16A 2p. | 0,7A | — | <b>3380170</b> |
| 160 VA | 230V | 24V | 2 CEE 24V 16A 2p. | 0,7A | — | <b>3380185</b> |
| 350 VA | 230V | 24V | 1 CEE 24V 16A 2p. | 1,5A | — | <b>3380186</b> |
| 350 VA | 230V | 24V | 2 CEE 24V 16A 2p. | 1,5A | — | <b>3380165</b> |



|        |      |     |                   |      |   |                |
|--------|------|-----|-------------------|------|---|----------------|
| 160 VA | 230V | 42V | 1 CEE 42V 16A 2p. | 0,7A | — | <b>3380183</b> |
| 160 VA | 230V | 42V | 2 CEE 42V 16A 2p. | 0,7A | — | <b>3380171</b> |
| 350 VA | 230V | 42V | 1 CEE 42V 16A 2p. | 1,5A | — | <b>3380169</b> |
| 350 VA | 230V | 42V | 2 CEE 42V 16A 2p. | 1,5A | — | <b>3380182</b> |



|         |      |     |                   |      |              |                |
|---------|------|-----|-------------------|------|--------------|----------------|
| 500 VA  | 230V | 24V | 2 CEE 24V 16A 2p. | 2,0A | 2 Neozed 1p. | <b>3480101</b> |
| 750 VA  | 230V | 24V | 3 CEE 24V 16A 2p. | 3,0A | 3 Neozed 1p. | <b>3480102</b> |
| 1000 VA | 230V | 24V | 4 CEE 24V 16A 2p. | 4,0A | 4 Neozed 1p. | <b>3480103</b> |
| 500 VA  | 230V | 42V | 2 CEE 42V 16A 2p. | 2,0A | —            | <b>3480104</b> |
| 750 VA  | 230V | 42V | 3 CEE 42V 16A 2p. | 3,0A | —            | <b>3480105</b> |
| 1000 VA | 230V | 42V | 4 CEE 42V 16A 2p. | 4,0A | 2 Neozed 1p. | <b>3480106</b> |



|                       |      |     |                   |       |              |                |
|-----------------------|------|-----|-------------------|-------|--------------|----------------|
| 1500 VA <sup>1)</sup> | 230V | 24V | 4 CEE 24V 16A 2p. | 6,0A  | 4 Neozed 1p. | <b>3980105</b> |
| 2000 VA <sup>1)</sup> | 230V | 24V | 6 CEE 24V 16A 2p. | 8,0A  | 6 Neozed 1p. | <b>3980101</b> |
| 2500 VA <sup>1)</sup> | 230V | 24V | 6 CEE 24V 16A 2p. | 10,0A | 6 Neozed 1p. | <b>3980102</b> |
| 1500 VA <sup>1)</sup> | 230V | 42V | 4 CEE 42V 16A 2p. | 6,0A  | 4 Neozed 1p. | <b>3980106</b> |
| 2000 VA <sup>1)</sup> | 230V | 42V | 6 CEE 42V 16A 2p. | 8,0A  | 6 Neozed 1p. | <b>3980103</b> |
| 2500 VA <sup>1)</sup> | 230V | 42V | 6 CEE 42V 16A 2p. | 10,0A | 6 Neozed 1p. | <b>3980104</b> |



3 m feed line with contour plug  
1) inrush current limiter

– other models on request / subject to modification and errors –



CE **K2**  
**Solid Rubber Housing**  
 Series NURNBERG

| Volt-Ampere<br>Power | Input*<br>Voltage ~ | Output<br>Output | Sockets<br>Output | Input<br> | Output<br> | Order No. |
|----------------------|---------------------|------------------|-------------------|-----------|------------|-----------|
|----------------------|---------------------|------------------|-------------------|-----------|------------|-----------|



|         |      |     |                |     |                 |                |
|---------|------|-----|----------------|-----|-----------------|----------------|
| 3000 VA | 230V | 24V | 10 CEE 16A 2p. | 13A | 10 B-Autom. 1p. | <b>3640101</b> |
| 4000 VA | 230V | 24V | 10 CEE 16A 2p. | 16A | 10 B-Autom. 1p. | <b>3640109</b> |



|         |      |     |                |     |                 |                |
|---------|------|-----|----------------|-----|-----------------|----------------|
| 3000 VA | 230V | 24V | 10 CEE 16A 2p. | 13A | 10 B-Autom. 1p. | <b>3640102</b> |
| 4000 VA | 230V | 24V | 10 CEE 16A 2p. | 16A | 10 B-Autom. 1p. | <b>3640110</b> |

all models with inrush current limiter





**Profile:**

- 2 large carrying handles with full-length steel reinforcement ensure secure transport and allow the unit to be carried by 2 people
- the frontal array guarantees unimpeded access to all sockets, even when high in number
- in the distribution box interior, carrier elements and lateral rods ensure necessary support for the heavy transformers
- all fixtures are smoothly and easily accessible by a specialized electrician for on-demand maintenance
- all one-phase transformers are equipped with an inrush current limiter in order to avoid inadvertent tripping of the mains fuse (e.g., B automats)
- an added heat protection tube (H07 V-K for all insulated wires) permanently rules out isolation errors and short circuits in the wiring
- a broad number of different transport carts counts among the available accessories
- further outstanding features and qualities distinguish the ELSPRO safety and isolation transformers and guarantee high quality and safety standards



# Safety Transformers

from 120VA-2000VA 

Wall-Mounted 



**Solid Rubber Housing**  
Series

| Volt-Ampere<br>Power | Input*<br>Voltage ~ | Output<br>Voltage ~ | No. | Sockets<br>Output | Input<br> | Output<br> | Order No. |
|----------------------|---------------------|---------------------|-----|-------------------|--|---|-----------|
|----------------------|---------------------|---------------------|-----|-------------------|--|---|-----------|

|        |      |     |                   |      |   |                |
|--------|------|-----|-------------------|------|---|----------------|
| 160 VA | 230V | 24V | 1 CEE 24V 16A 2p. | 0,7A | — | <b>3388164</b> |
| 160 VA | 230V | 24V | 2 CEE 24V 16A 2p. | 0,7A | — | <b>3388167</b> |
| 350 VA | 230V | 24V | 1 CEE 24V 16A 2p. | 1,5A | — | <b>3388168</b> |
| 350 VA | 230V | 24V | 2 CEE 24V 16A 2p. | 1,5A | — | <b>3388161</b> |



HILDEN

|        |      |     |                   |      |   |                |
|--------|------|-----|-------------------|------|---|----------------|
| 160 VA | 230V | 42V | 1 CEE 42V 16A 2p. | 0,7A | — | <b>3388170</b> |
| 160 VA | 230V | 42V | 2 CEE 42V 16A 2p. | 0,7A | — | <b>3388169</b> |
| 350 VA | 230V | 42V | 1 CEE 42V 16A 2p. | 1,5A | — | <b>3388162</b> |
| 350 VA | 230V | 42V | 2 CEE 42V 16A 2p. | 1,5A | — | <b>3388166</b> |



HILDEN

|        |      |     |                   |      |              |                |
|--------|------|-----|-------------------|------|--------------|----------------|
| 500 VA | 230V | 24V | 2 CEE 24V 16A 2p. | 2,0A | 2 B-Aut. 1p. | <b>3748102</b> |
| 500 VA | 230V | 42V | 2 CEE 42V 16A 2p. | 2,0A | —            | <b>3788106</b> |



REMSCHIED

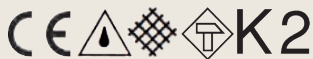
|                        |      |     |                   |      |              |                |
|------------------------|------|-----|-------------------|------|--------------|----------------|
| 1000 VA                | 230V | 24V | 3 CEE 24V 16A 2p. | 4,0A | 3 B-Aut. 1p. | <b>3848101</b> |
| 2000 VA<br>-ohne Abb.- | 230V | 24V | 6 CEE 24V 16A 2p. | 8,0A | 6 B-Aut. 1p. | <b>3848102</b> |
| 1000 VA                | 230V | 42V | 3 CEE 42V 16A 2p. | 4,0A | 3 B-Aut. 1p. | <b>3848103</b> |
| 2000 VA<br>-ohne Abb.- | 230V | 42V | 6 CEE 42V 16A 2p. | 8,0A | 6 B-Aut. 1p. | <b>3848104</b> |



TRIER

– other models on request / subject to modification and errors –

\*screw size M



**Solid Rubber Housing Series**

| Power | Volt-Ampere<br>Input*<br>Voltage ~ | Output | Sockets | Cable Length<br>Meters | Cross-Section<br>mm <sup>2</sup> | Light Type | Order No. |
|-------|------------------------------------|--------|---------|------------------------|----------------------------------|------------|-----------|
|-------|------------------------------------|--------|---------|------------------------|----------------------------------|------------|-----------|



LRX

|       |        |      |       |    |         |                  |                |
|-------|--------|------|-------|----|---------|------------------|----------------|
| 50 VA | 230 V* | 24 V | 0,2 A | 30 | 2 x 2,5 | HSW <sup>1</sup> | <b>3X80903</b> |
|       |        | 42 V |       |    |         | on request       |                |
| 50 VA | 230 V* | 24 V | 0,2 A | 30 | 2 x 2,5 | QS <sup>2</sup>  | <b>3X80905</b> |
|       |        | 42 V |       |    |         | on request       |                |



LRX

\* 3 m special line INDUSTRIEFELX 07HT 2 x 1,0 mm<sup>2</sup> with contour plug



LRK

|       |         |      |       |    |         |                  |                |
|-------|---------|------|-------|----|---------|------------------|----------------|
| 50 VA | 230 V** | 24 V | 0,2 A | 30 | 2 x 2,5 | HSW <sup>1</sup> | <b>3188947</b> |
|       |         | 42 V |       |    |         | QS <sup>2</sup>  | <b>3188948</b> |
|       |         |      |       |    |         |                  | on request     |

The power cable is firmly connected.  
With easily removable illuminated lamp!  
The safety transformer is laterally flange-mounted.  
Low voltage of 24 V is conducted through collector rings.

|                                    |      |      |                         |
|------------------------------------|------|------|-------------------------|
| 1 = solid rubber handheld led lamp | 9 W  | 24 V | HSW LED<br>(page 21.11) |
| 2 = inspection lamp                | 20 W | 24 V | QS L05<br>(page 21.21)  |

\*\* cable gland M20


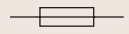
– other models on request / subject to modification and errors –


# Isolation Transformers

from 120VA-4500VA

Mobile Protection Class 2

CE    **K2**  
**Solid Rubber Housing**  
 Series


| Volt-Ampere | Input*    | Output    | No. | Sockets | Input   | Output  | Order No. |
|-------------|-----------|-----------|-----|---------|---|---|-----------|
| Power       | Voltage ~ | Voltage ~ |     | Output  |  |  |           |

|        |      |      |  |   |       |   |                |
|--------|------|------|--|---|-------|---|----------------|
| 120 VA | 230V | 230V |  | 1 socket with earthing contact -without  - | 0,5 A | — | <b>3080001</b> |
|--------|------|------|--|---|-------|---|----------------|






|        |      |      |  |   |       |   |                |
|--------|------|------|--|---|-------|---|----------------|
| 125 VA | 230V | 230V |  | 1 socket with earthing contact -without  - | 0,5 A | — | <b>3380006</b> |
|--------|------|------|--|---|-------|---|----------------|






|        |      |      |  |   |       |   |                |
|--------|------|------|--|---|-------|---|----------------|
| 350 VA | 230V | 230V |  | 1 socket with earthing contact -without  - | 1,5 A | — | <b>3380005</b> |
|--------|------|------|--|---|-------|---|----------------|



|         |      |      |  |   |       |   |                |
|---------|------|------|--|---|-------|---|----------------|
| 500 VA  | 230V | 230V |  | 1 socket with earthing contact -without  - | 2,0 A | — | <b>3480001</b> |
| 750 VA  | 230V | 230V |  | 1 socket with earthing contact -without  - | 3,0 A | — | <b>3480002</b> |
| 1000 VA | 230V | 230V |  | 1 socket with earthing contact -without  - | 4,0 A | — | <b>3480003</b> |



|                       |      |      |  |   |       |   |                |
|-----------------------|------|------|--|---|-------|---|----------------|
| 1500 VA <sup>1)</sup> | 230V | 230V |  | 1 socket with earthing contact -without  - | 6,0 A | — | <b>3980003</b> |
| 2000 VA <sup>1)</sup> | 230V | 230V |  | 1 socket with earthing contact -without  - | 8,0 A | — | <b>3980001</b> |
| 2500 VA <sup>1)</sup> | 230V | 230V |  | 1 socket with earthing contact -without  - | 10 A  | — | <b>3980002</b> |



– other models on request / subject to modification and errors –

\* 3 m feed line with contour plug  
<sup>1)</sup> inrush current limiter

06.21



**Solid Rubber Housing**  
Series NURNBERG

| Volt-Ampere<br>Power | Input*<br>Voltage ~ | Output<br>Output | Sockets<br>Output | Input<br> | Output<br> | Order No. |
|----------------------|---------------------|------------------|-------------------|-----------|------------|-----------|
|----------------------|---------------------|------------------|-------------------|-----------|------------|-----------|



|         |            |      |  |     |   |                |
|---------|------------|------|--|-----|---|----------------|
| 3000 VA | 1)<br>230V | 230V | 1 socket with earthing contact<br>—without | 13A | — | <b>3680005</b> |
| 3500 VA | 1)<br>230V | 230V | 1 socket with earthing contact<br>—without | 15A | — | <b>3680001</b> |
| 4000 VA | 1)<br>230V | 230V | 1 socket with earthing contact<br>—without | 16A | — | <b>3680002</b> |



|         |                  |            |                   |        |   |                |
|---------|------------------|------------|-------------------|--------|---|----------------|
| 4000 VA | 2)<br>400V<br>3~ | 400V<br>3~ | 1 CEE 400V 3~ 16A | 6A 3p. | — | <b>3681101</b> |
| 4500 VA | 2)<br>400V<br>3~ | 400V<br>3~ | 1 CEE 400V 3~ 16A | 6A 3p. | — | <b>3681102</b> |



**Profile of Order No. 5691003**

Mobile isolation transformer in an ELSPRO solid rubber distribution box on a trolley from the NÜRNBERG series

Input: 3 m cable INDUSTRIEFLEX® 07 with CEE plug 5 x 16 A/400 V

Fixtures: 1 three-phase transformer with 3 separate output windings

Primary power: 4500 VA, 3x400 V

Second power: 3x1500 VA, 3x230 V single-phase

Switching group: Diii Nominal frequency: 50-60 Hz

- primary safeguarding via a motor protection switch 6 A/3-pol.

Output: 3 sockets with earthing contact; also secured without earthing contact by way of 3 MCB 6 A/1 pol. in B type

- each with an engraved caution sign:

**ATTENTION!**

Connect only 1 consumer to each earthing contact socket!

Model Features:

- K2 type
- highly insulated
- the circuit breakers are externally accessible and are situated behind 2 transparent hinged windows for protection
- the steel frame of the trolley features a plastic powder coating
- 2 ball-bearing-mounted solid rubber tires, 200 mm in diameter
- compact structural shape and favorable center of gravity
- transformer according to VDE 0570
- splashproof

1) 3 m feed line with contour plug  
2) 3 m feed line with CEE plug, 400 V 16 A 5p.

# Isolation Transformers

from 120VA-2000VA

Wall-Mounted Distribution Boxes



**Solid Rubber Housing Series**

| Volt-Ampere<br>Power | Input*<br>Voltage ~ | Output<br>Voltage ~ | No. | Sockets<br>Output | Input | Output | Order No. |
|----------------------|---------------------|---------------------|-----|-------------------|-------|--------|-----------|
|----------------------|---------------------|---------------------|-----|-------------------|-------|--------|-----------|

|        |      |      |  |   |       |   |                |
|--------|------|------|--|---|-------|---|----------------|
| 125 VA | 230V | 230V |  | 1 socket with earthing contact<br>-without $\equiv$ - | 0,5 A | — | <b>3388011</b> |
| 160 VA | 230V | 230V |  | 1 socket with earthing contact<br>-without $\equiv$ - | 0,7 A | — | <b>3388012</b> |



|        |      |      |  |   |       |   |                |
|--------|------|------|--|---|-------|---|----------------|
| 350 VA | 230V | 230V |  | 1 socket with earthing contact<br>-without $\equiv$ - | 1,5 A | — | <b>3388010</b> |
|--------|------|------|--|---|-------|---|----------------|



|        |      |      |  |   |       |   |                |
|--------|------|------|--|---|-------|---|----------------|
| 500 VA | 230V | 230V |  | 1 socket with earthing contact<br>-without $\equiv$ - | 2,0 A | — | <b>3788004</b> |
|--------|------|------|--|---|-------|---|----------------|



|                           |      |      |  |   |       |   |                |
|---------------------------|------|------|--|---|-------|---|----------------|
| 1000 VA                   | 230V | 230V |  | 1 socket with earthing contact<br>-without $\equiv$ - | 4,0 A | — | <b>3888001</b> |
| 2000 VA<br>-without fig.- | 230V | 230V |  | 1 socket with earthing contact<br>-without $\equiv$ - | 8,0 A | — | <b>3888002</b> |



\* screw size M

– other models on request / subject to modification and errors –

# Solid Rubber Cable Reels Spring Cable Reels Cable Trolleys



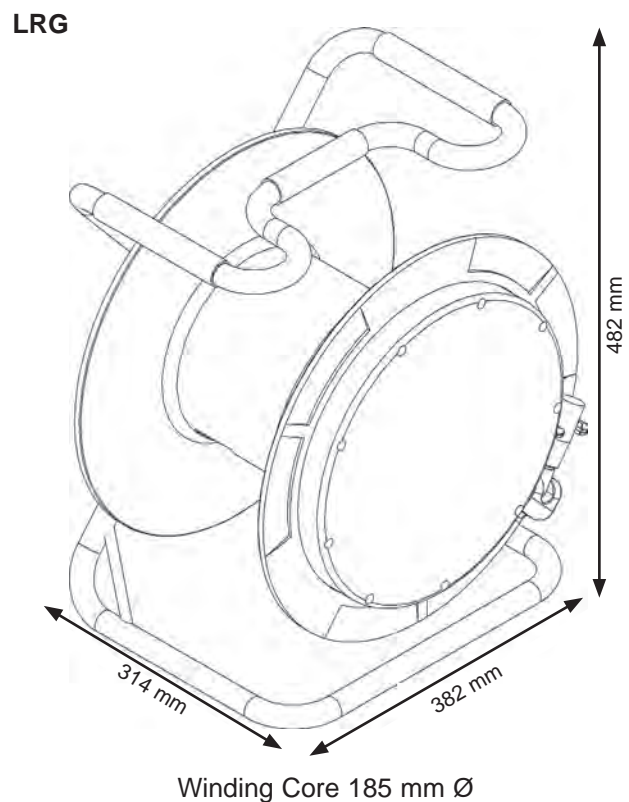
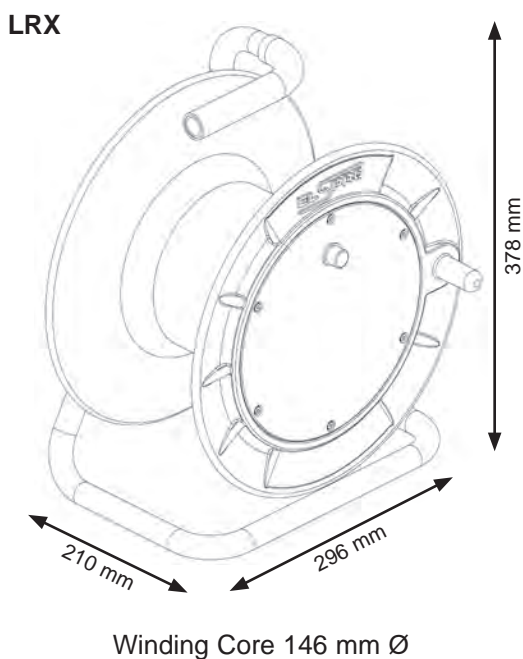
# ELSPRO Solid Rubber Cable Reels

suitable for rough operating conditions in industry, trade, and at construction sites

- according to DIN VDE 0623, section 100/EN61316
- reel body made of solid rubber
  - maintenance-free and unbreakable
  - cold-resistant and thermally stable
  - highly flame-resistant and self-extinguishing
  - resistant to corrosion, oil, acid, and lye
  - utterly weatherproof and ageing resistant
- kink-free cable entry
- heavy-duty strain relief for push, pull, and against torsion
- steel-tube frame
  - ergonomic
  - robust
  - stable
  - plastic powder coated
- insulated carrying handle
- inside parking and dispensing brakes
- highly insulated and splashproof
- cable type: INDUSTRIEFLEX<sup>®</sup>07 HT - see reg. no. 8
- with colored engraving on request

## Connector System

- VDE-test and certified
- nickel-plated contacts
- individually replaceable
- fastened with ISO bolts



# LRX

our number 1

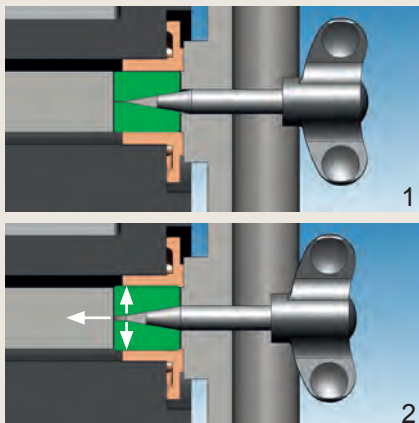


ELSPRO®



**SPECIAL FEATURES**

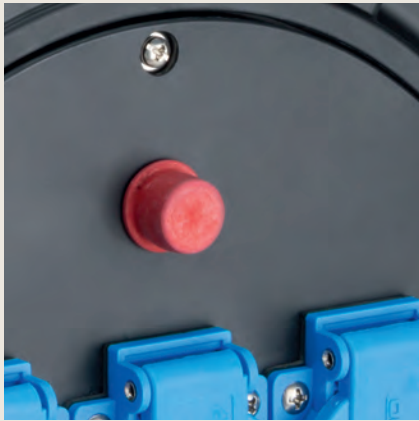
- $K + M = X$  → advantages of the proven LRK and LRM series combined in one cable reel
- new compact industrial design
- optimised shape, weight reduction and ergonomics
- large front cover for many variants, e.g. max. 5 x sockets with earthing contact
- front cover with injected PU seal
- adapted shape protects the brake wing screw
- optimised/small gap size between frame and reel body prevents jamming of the cable
- with internal locking and unwinding brake, braking efficiency adjustable by means of the wing screw (see diagrams below)
- soft cable entry prevents wire breaks by means of generous bending radii
- with overheating protection
- LED with switch optionally for initial lighting or illumination of a small construction site
- carrying frame optionally with clamping shell feet
- robust and stable tube frame, plastic powder coated
- protectively insulated and splash-proof
- compliant with the test principle in accordance with GS-ET-35 (principles for the testing and certification of cable reels for construction and installation sites)



**Principle of the Inside Brake:**

- The wing screw has a tapered tip that rests between the two brake blocks (see fig. 1).
- By screwing in the wing screw, the brake blocks are pressed apart (see fig. 2) and exert force on the nylon bearing bush, which in turn is tightly connected to the rubber reel body.
- Braking pressure can be continually increased by turning the wing screw.
- If the wing screw is turned back, then pressure on the brake is reduced and the brake blocks return to their original position.

– other models on request / subject to modification and errors –



with overheating protection



insulated carrying handle



equipment variants with different safety features possible



the shape of the carrying frame protects the wing screw of the internal brake from damage



alternatively with integrated LED light with switch



the optimised gap size between carrying frame and reel body prevents jamming and possible damage to the cable



the large front cover allows many different equipment variants



optionally with clamping shell feet

– other models on request / subject to modification and errors –

## Solid Rubber Cable Reels

with overheating protection

## Series LRX

## Configuration Examples



| Number | Output | Sockets | Cable Length<br>Meters | Cross-Section<br>mm <sup>2</sup> | Plugs | Order No. |
|--------|--------|---------|------------------------|----------------------------------|-------|-----------|
|--------|--------|---------|------------------------|----------------------------------|-------|-----------|



|                                    |    |         |                       |         |
|------------------------------------|----|---------|-----------------------|---------|
| 3 sockets<br>with earthing contact | 25 | 3 G 1,5 | with earthing contact | 4X00001 |
|                                    | 33 |         |                       | 4X00002 |
|                                    | 40 |         |                       | 4X00003 |
|                                    | 50 |         |                       | 4X00004 |
| 3 sockets<br>with earthing contact | 25 | 3 G 2,5 | with earthing contact | 4X00021 |
|                                    | 33 |         |                       | 4X00022 |
|                                    | 40 |         |                       | 4X00023 |
|                                    | 50 |         |                       | 4X00027 |



optionally in IP67

|  |    |         |                                   |         |
|--|----|---------|-----------------------------------|---------|
| 3 sockets<br>with earthing contact<br>IP 66/68 | 25 | 3 G 1,5 | with earthing contact<br>IP 66/68 | 4X00041 |
|  | 33 |         |                                   | 4X00042 |
|  | 40 |         |                                   | 4X00043 |
|  | 50 |         |                                   | 4X00044 |
| 3 sockets<br>with earthing contact<br>IP 66/68 | 25 | 3 G 2,5 | with earthing contact<br>IP 66/68 | 4X00061 |
|  | 33 |         |                                   | 4X00062 |
|  | 40 |         |                                   | 4X00063 |
|  | 50 |         |                                   | 4X00066 |



|  |    |         |                       |         |
|--|----|---------|-----------------------|---------|
| 2 sockets<br>with earthing contact<br>LED + switch | 25 | 3 G 1,5 | with earthing contact | 4X00081 |
|  | 33 | 3 G 1,5 |                       | 4X00082 |
|  | 40 | 3 G 1,5 |                       | 4X00083 |
|  | 50 | 3 G 1,5 |                       | 4X00084 |



|   |    |         |                       |         |
|---|----|---------|-----------------------|---------|
| 3 sockets<br>with earthing contact<br>with PRCD-S | 25 | 3 G 1,5 | with earthing contact | 4X10001 |
|   | 33 |         |                       | 4X10002 |
|   | 40 |         |                       | 4X10003 |
|   | 50 |         |                       | 4X10004 |
| 3 sockets<br>with earthing contact<br>with PRCD-S | 25 | 3 G 2,5 | with earthing contact | 4X10021 |
|   | 33 |         |                       | 4X10022 |
|   | 40 |         |                       | 4X10023 |
|   | 50 |         |                       | 4X10025 |

| Series LRX |                |              |        | Configuration Examples |                 | Solid Rubber Cable Reels |           |
|------------|----------------|--------------|--------|------------------------|-----------------|--------------------------|-----------|
| Number     | Output Sockets | Cable Length | Meters | Cross-Section          | mm <sup>2</sup> | Plugs                    | Order No. |

with overheating protection



|   |    |         |                       |           |
|---|----|---------|-----------------------|-----------|
| 2 sockets with earthing contact<br>1 RCD Type A / 25 A / 30 mA                  | 25 | 3 G 1,5 | with earthing contact | 4X10051   |
|   | 33 |         |                       | 4X10052   |
|   | 40 |         |                       | 4X10053   |
|   | 50 |         |                       | 4X10054   |
| 2 sockets with earthing contact<br>2 RCB Type A / 16 A / 30 mA 2 pol. / C-Char. | 25 | 3 G 1,5 | with earthing contact | 4X10072/C |
|   | 33 |         |                       | 4X10074/C |
| 2 sockets with earthing contact<br>2 RCB Type A / 16 A / 30 mA 2 pol. / C-Char. | 25 | 3 G 2,5 | with earthing contact | 4X10073/C |
|   | 33 |         |                       | 4X10075/C |



|  |    |         |                         |         |
|--|----|---------|-------------------------|---------|
| 1 CEE 400 V / 16 A / 5 p.<br>2 sockets with earthing contact | 25 | 5 G 2,5 | CEE 400 V / 16 A / 5 p. | 4X01111 |
|  | 33 |         |                         | 4X01112 |



|                          |    |         |                        |         |
|--------------------------|----|---------|------------------------|---------|
| 2 CEE 24 V / 16 A / 2 p. | 25 | 2 x 2,5 | CEE 24 V / 16 A / 2 p. | 4X01121 |
| 2 CEE 24 V / 16 A / 2 p. | 33 | 2 x 4,0 | CEE 24 V / 16 A / 2 p. | 4X01122 |
|                          | 40 |         |                        | 4X01123 |
| 2 CEE 42 V / 16 A / 2 p. | 25 | 2 x 2,5 | CEE 42 V / 16 A / 2 p. | 4X01141 |
|                          | 33 |         |                        | 4X01142 |
| 2 CEE 42 V / 16 A / 2 p. | 40 | 2 x 4,0 | CEE 42 V / 16 A / 2 p. | 4X01143 |



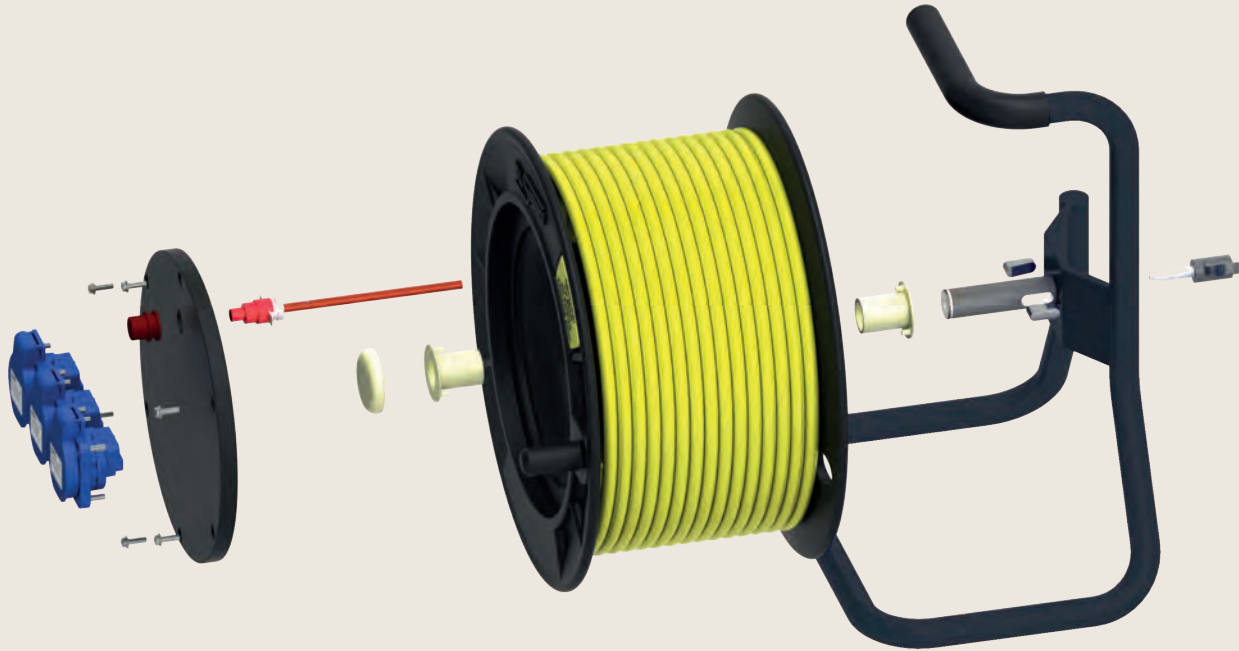
|  |    |         |                        |         |
|--|----|---------|------------------------|---------|
| 3 Schutzkontakt IP 66/68<br>1 RCD Typ A / 25 A / 30 mA | 25 | 3 G 1,5 | Schutzkontakt IP 66/68 | 4X10046 |
|  | 33 |         |                        | 4X10047 |
|  | 40 |         |                        | 4X10048 |
|  | 50 |         |                        | 4X10049 |
| 3 Schutzkontakt IP 66/68<br>1 RCD Typ A / 25 A / 30 mA | 25 | 3 G 2,5 | Schutzkontakt IP 66/68 | 4X10076 |
|  | 33 |         |                        | 4X10077 |
|  | 40 |         |                        | 4X10078 |
|  | 50 |         |                        | 4X10079 |



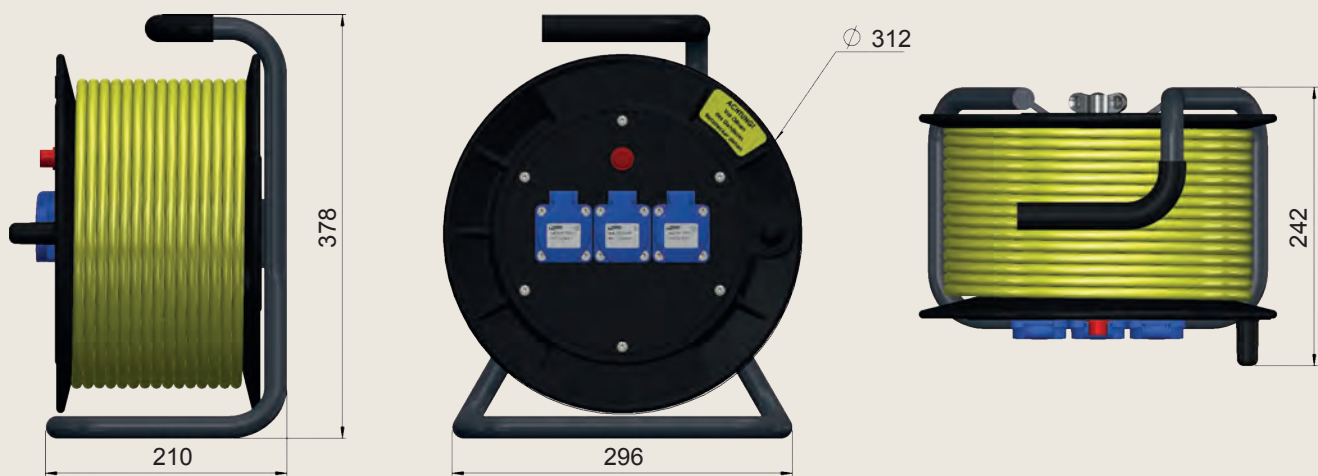
IP67

– other models on request / subject to modification and errors –

**EXPLODED DRAWING:**



**DIMENSIONS:**



– other models on request / subject to modification and errors –

Configuration Examples

Series LRG

Solid Rubber Cable Reels

with overheating protection  
1 pol. / 3 pol.



| Number | Output | Sockets | Cable | Length<br>Meters | Cross-Section<br>mm <sup>2</sup> | Plugs | Order No. |
|--------|--------|---------|-------|------------------|----------------------------------|-------|-----------|
|--------|--------|---------|-------|------------------|----------------------------------|-------|-----------|

|  |  |  |    |         |                       |                |
|--|--|--|----|---------|-----------------------|----------------|
| 4 sockets with earthing contact (no fig.)              |  |  | 60 | 3 G 2.5 | with earthing contact | <b>4802203</b> |
| 2 CEE 400V 16A 5p. and 3 sockets with earthing contact |  |  | 50 | 5 G 2.5 | CEE 400V 16A 5p.      | <b>4801107</b> |



|   |  |  |    |         |                  |                |
|---|--|--|----|---------|------------------|----------------|
| 1 CEE 400V 32A 5p. and 1 CEE 400V 16A 5p. protected with 1 C-Autom. 3p. and 3 sockets with earthing contact protected with 3 B-Autom. 1p. 1 residual-current circuit breaker RCD Type A I <sub>n</sub> =40A I <sub>Δn</sub> =30mA 4p. |  |  | 40 | 5 G 6.0 | CEE 400V 32A 5p. | <b>4853324</b> |
|---|--|--|----|---------|------------------|----------------|



|  |  |  |    |         |                                 |                |
|--|--|--|----|---------|---------------------------------|----------------|
| 1 CEE 400V 32A 5p. — waterproof — and protected with 2 C-Autom. 3p. and socket with earthing contact 1 B-Autom. 1p. - water-pressure-tight - protected with earthing contact |  |  | 40 | 5 G 6.0 | CEE 400V 32A 5p. — waterproof — | <b>4843332</b> |
|--|--|--|----|---------|---------------------------------|----------------|



|                   |  |  |    |         |                 |                |
|-------------------|--|--|----|---------|-----------------|----------------|
| 5 CEE 42V 16A 2p. |  |  | 80 | 2 G 4.0 | CEE 42V 16A 2p. | <b>4801132</b> |
| 4 CEE 42V 16A 2p. |  |  | 50 | 2 G 4.0 | CEE 42V 16A 2p. | <b>4801114</b> |
| 4 CEE 24V 16A 2p. |  |  | 50 | 2 G 4.0 | CEE 24V 16A 2p. | <b>4801112</b> |



— other models on request / subject to modification and errors —

# ELSPRO Solid Rubber Cable Reels Series LRG



Handles folded inward for space-saving storage

Handles folded outward for back-friendly, bilateral transport by two people

**Testing standard GS-ET-35 specifies that the overall mass of a cable reel being appropriately transported by one person without auxiliary means cannot exceed 25 kg!**

**The following apply as well:**

- Directive 90/269/EWG
- Load Handling Regulation (LasthandhabV)
- German Occupational Safety Act (ArbSchG)
- DIN EN 1005-2 „Safety of machinery - Human physical performance - Part 2: Manual handling of machinery and component parts of machinery“
- BGI 523
- Exposure Limit Values 2011 – Safety and Health in the Workplace (IFA Report 1/2011)



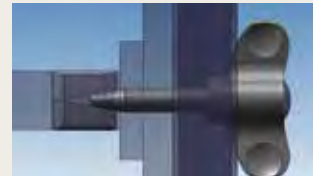
After the detent bolt has been removed, each handle may be folded outward



Also available in a model with stainless-steel frame

**Principle of the Inside Brake:**

- The wing screw has a tapered tip that rests between the two brake blocks (see fig. 1).
- By screwing in the wing screw, the brake blocks are pressed apart (see fig. 2) and exert force on the nylon bearing bush, which in turn is tightly connected to the rubber reel body.
- Braking pressure can be continually increased by turning the wing screw.
- If the wing screw is turned back, then pressure on the brake is reduced and the brake blocks return to their original position.



Meets various special requirements where an interior brake is necessary on cable reels, e.g., German Federal Agency for Technical Relief (THW), German Red Cross (DRK), etc.



**ACCESSORIES:**

- I Stainless-steel trolley with solid rubber wheels and rubberized handle

Order No.

**JOG48**

Even 40 kg can be moved effortlessly:  
hook up – tilt – ready to go



with overheating protection



| Number  | Output   | Sockets | Cable | Length<br>Meters | Cross-Section<br>mm <sup>2</sup> | Plugs            | Order No. |
|---|--|---------|-------|------------------|----------------------------------|------------------|-----------|
| 1   | CEE 400V 32A 5p. with<br>1 residual-current circuit<br>breaker RCD Type A<br>$I_n=40A$ $I_{\Delta n}=30mA$ 4p.             |         |       | 40               | 5G6.0                            | CEE 400V 32A 5p. | 4813301   |
| on the frame:   |  |         |       |                  |                                  |                  |           |
| 1 solid rubber wall-mounted distribution box with feed cable and plug |  |         |       |                  |                                  |                  |           |
| 1   | CEE 400V 32A 5pol.<br>and<br>1 CEE 400V 16A 5pol.<br>and<br>3 earthing contact<br>sockets protected with<br>3 B-Autom. 1p. |         |       | 1                | C-Autom. 3p.                     |                  |           |



### Characteristics and Special Features:

- A foldable rotary handle for easy reeling in of the cable
- large solid rubber front panel with integrated rubber seal and eight lid screws made of V2A steel with an M4 thread
- wear-free nylon bushing guarantees easy and even running of the reel body along the axis
- robust and sturdy tubular carrying frame, fashioned from a single piece of metal and powder-coated
- favorable center of gravity and the ergonomic handle foster high carrying comfort
- conforms to VDE 0623-100, DIN EN 61316
- carrying handle, rotary handle, and reel body made of insulating material according to DGUV 203-006 / 203-004
- for models with three-phase sockets, the 3 pol. overheating protection runs via an interior power contactor
- for models with a residual-current circuit breaker (RCD), deactivation due to overheating is carried out by the RCD



– other models on request / subject to modification and errors –



## ELSPRO Cable Reeling Drums Typ LR600F and LR700F



**LARGE cable cross-sections**

**LONG cable lengths**

**Easy to do with the "PAIR"!**

Temporary power supply must often be achieved using large cable cross-sections and long cable lengths. These cables are then so heavy that they cannot be handled by one person alone.

The "PAIR" reels offer optimal support in laying and neatly rolling up again even the heaviest and longest of cables, making the process manageable and time-saving as well. The operational readiness of the lines is therefore consistently ensured.

### Frame

The plastic-powder-coated steel frame is designed to be torsion-resistant in order to ward against mechanical impact. A stable bar serves as a grip.

### Tires

Stable footing and facile movement of the cable reel are promoted through two solid rubber fixed wheels and two solid-rubber castor wheels, each with a wheel diameter of 200 mm.

| Type                       | Model   | Dimensions (L x W x H)  | Weight                          | Order No.  |
|----------------------------|---|---|---------------------------------|--|
| LR600F<br>LR600F           | without cable<br>* 40 m cable 5 G 16 mm <sup>2</sup>  | 700 x 600 x 800 mm<br>700 x 600 x 800 mm                          | 78.0 kg<br>137.0 kg             | <b>LR600F</b><br><b>LR600F/CS40K6</b>                          |
| LR700F<br>LR700F<br>LR700F | without cable<br>* 150 m cable 5 G 16 mm <sup>2</sup><br>** 80 m cable 5 G 35 mm <sup>2</sup> | 1050 x 700 x 800 mm<br>1050 x 700 x 800 mm<br>1050 x 700 x 800 mm | 90.0 kg<br>312.0 kg<br>315.0 kg | <b>LR700F</b><br><b>LR700F/CS150K6</b><br><b>LR700F/CS80KX</b> |

\* with CEE plug and CEE connector 400V 63A 5p.

\*\* with CEE plug and CEE connector 400V 125A 5p.

– other models on request / subject to modification and errors

# ELSPRO Cable Reeling Drums

## Type LR 600 F and LR 700 F

### 1 Hand-Operated Safety Crank Handle

- when not in use, the handle is disengaged
- handle is engaged through axial movement (pressing motion)
- by “letting go” of the handle, it automatically disengages

### 2 Chain-Protection Cover

The chain is situated under a protective cover to prevent the user from touching the chain drive and the braking system, which could lead to accidental injury.

### 3 Chain Drive with Two Gear Wheels

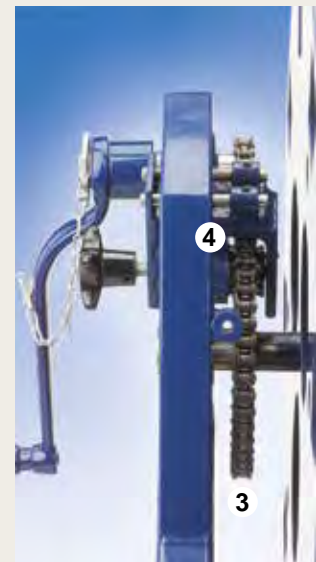
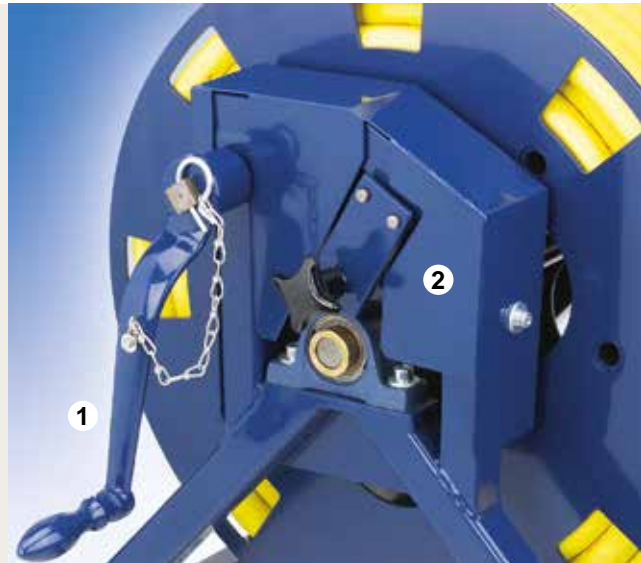
The chosen gear transmission ration (10:44) for the two gear wheels is designed to ensure easy reeling in, even in the case of heavy loads (“one-man operation”).

### 4 Braking System

The fixed and saddle brakes with their brake pads exert pressure on the large gear wheel that is situated along the drum axle. The brake caliper distributes force continuously with even flow along both sides of the gear wheel.

### 5 Ball-Bearing Mounted Drum Body

The stable, ball-bearing-mounted axle of the drum body is enclosed by two pedestal bearings. This allows the heavy drum body to turn with ease and avoids wear.



### Advantages ...

- the crank handle only induces traction force at the drive shaft during active use; by contrast, when the shaft is unintentionally activated, the disengaged handle does not turn
- chain drive and braking system are fully encased
- chain drive with gear transmission ratio of 10:44
- ball-bearing mounted drum body

### ... and Benefits:

- no risk of injury due to unintentionally rotating crank handle!
- no risk of injury from drive since it is inaccessible!
- one-man operation possible!
- even-flowing braking effect and drive protection due to continuous strain; accidental unreeling is prevented, and readying the cable made easier: “cable flow as smooth as possible – as strong as necessary!”
- smooth, protective unreeling

– other models on request / subject to modification and errors –

**Spring hose reels – the solution for more safety and cleanliness in the workplace**

**Fields of Application:**

- **industry**
- **trade**
- **commerce**

Disorganized cables lying on the ground, often a cause of accidents, are a thing of the past. Cables that are not needed for the time being are securely and neatly rolled up until the next project. Delivered with a locking mechanism in place. The cable can be fixated at almost any length and thus allows for a traction-free working experience. The locking mechanism can be deactivated when necessary.



| Type   | Voltage | Input                   | Output  | Dimensions (W x H x D) | Order No.         |
|--------|---------|-------------------------|---|------------------------|-------------------|
| SYLT 1 | 230 V   | bend-protection grommet | 12 m cable 3 G 1.5 mm <sup>2</sup> with earthed connector | 170 x 315 x 350 mm     | <b>4689001SI</b>  |
| SYLT 2 | 230 V   | bend-protection grommet | 17 m cable 3 G 1.5 mm <sup>2</sup> with earthed connector | 180 x 375 x 400 mm     | <b>4689050SII</b> |

**SPECIAL FEATURES:**

- versatile installation possibilities for wall, floor, and ceiling
- closed, corrosion-free housing made of polyoxymethylene; drum made of polypropylene
- highly insulated and splashproof
- with a wall console that can be swiveled at 160°
- spring encapsulated in a cassette
- safety locking device that can be switched on or off by hand
- 3 collector rings (L1-N-PE), max. 10 ampere
- overheating protection switch with manual reset
- adjustable cable stopper
- equipped with flexible INDUSTRIEFLEX® 07 cable
- flexible mounting of the spring cable reels according to operating site and workplace
- long service life, even under extremely rough operating conditions: **COST SAVINGS!**
- high measure of electrical **SAFETY**, even outdoors and in damp spaces
- smooth motion in all directions guarantees excellent handling while also protecting the cable
- simple and danger-free replacement without needing special tools
- if safety locking device is activated, the cable can be tightly fixated at any given unreeled length
- dual contact system for the PE conductor = double the **SAFETY**
- when line overload occurs, power is shut down **FIRE PROTECTION**
- protection against back-reeling of the entire line; individual length adjustment of sagging cable
- extended service life of the reeled up cable; for detailed features and qualities, see register group 8

– other models on request / subject to modification and errors –

Spring cable reels alleviate tripping hazards that arise from lines lying on the ground. Neatly wound cables not only facilitate a convenient and safe working environment but also protect the materials used. Cables that are left lying around are frequently run over or subjected to heightened mechanical strain. This results in premature wear and tear of the materials.

**What advantages do spring cable reels offer?**

- reduction of accident risks
- efficient use of materials
- longer service life = cost reduction



| Voltage | Input   | Output  | Order No.       |
|---------|---|---|-----------------|
| 230 V   | 1.0 m power supply cable<br>3 x 2.5 mm <sup>2</sup> | 25 m cable 3 G 2.5 mm <sup>2</sup><br>with earthed connector          | <b>4685010A</b> |
| 400 V   | 1.0 m power supply cable<br>5 x 2.5 mm <sup>2</sup> | 22 m cable 5 G 2.5 mm <sup>2</sup><br>with CEE connector 5 x 16A/400V | <b>4685110A</b> |

**SPECIAL FEATURES:**

- versatile installation options for wall, floor, and ceiling
- galvanized steel tube frame and corrosion-free drum made of fiberglass-reinforced plastic
- sprayproof cable reel; splashproof standard connector system models
- cable discharge via 4 reels, adjustable to 60°
- encapsulated spring
- exterior, removable 7-fold locking mechanism
- 5 collector rings (L1-N-PE) with carbon brushes, max. 10 ampere
- adjustable cable end stop
- equipped with flexible INDUSTRIEFLEX® 07 cable
- flexible mounting of the spring cable reels according to operating site and workplace
- long service life, even under extremely rough operating conditions: **COST SAVINGS!**
- perfectly suited for safe implementation, even outdoors and in damp spaces
- low-abrasion cable routing protects the cable and extends its service life: **COST SAVINGS**
- simple and danger-free replacement without needing special tools
- if safety locking device is activated, the cable can be tightly fixated at almost any given unreeled length and offers a traction-free working experience; if the locking system is dismantled, the cable is constantly subject to tension
- excellent low-maintenance and safe contact system
- protection against back-reeling of the entire line; individual length adjustment of sagging cable
- extended service life of the reeled up cable; for detailed features and qualities, see register group 8

– other models on request / subject to modification and errors –

**Spring hose reels are the effective solution for more safety and cleanliness at the workplace**

**Fields of Application:**

- **industry**
- **trade**
- **commerce**

Disorganized hoses lying on the ground frequently cause work-related accidents. Spring hose reels promote order in the workplace, which helps avoid dangerous tripping hazards and protects the materials used.

Air and water hoses are securely and neatly rolled up, ready to use at any time.

Delivered with a locking mechanism in place. The hose can be fixated at almost any length and thus allows for a traction-free working experience. The locking mechanism can be deactivated when necessary.



| Type     | Input                              | Output                                   | max. operating pressure<br>MPa (bar) | Dimensions (W x H x D) | Order No.        |
|----------|------------------------------------|--|--------------------------------------|------------------------|------------------|
| BORKUM 1 | connection nozzle<br>for 3/8" hose | 12 m 1/4" hose<br>with connection thread | 1.2 (12)                             | 170x315x350mm          | <b>4602201BI</b> |



| Type     | Input                              | Output                                   | max. operating pressure<br>MPa (bar) | Dimensions (W x H x D) | Order No.         |
|----------|------------------------------------|--|--------------------------------------|------------------------|-------------------|
| BORKUM 2 | connection nozzle<br>for 3/8" hose | 10 m 3/8" hose<br>with connection thread | 1.5 (15)                             | 180x375x400mm          | <b>4602250BII</b> |

**SPECIAL FEATURES:**

- versatile installation possibilities for wall, floor, and ceiling
- closed, corrosion-free housing made of polyoxymethylene; drum made of polypropylene
- includes a wall bracket with 160° swivel range
- spring encapsulated in a cassette
- safety locking device that can be switched on or off by hand
- with adjustable hose stopper
- equipped with heavy-duty PUR/PVC hose featuring cord reinforcement
- flexible mounting of the spring cable reels according to operating site and workplace
- long service life, even under extremely rough operating conditions: **COST SAVINGS!**
- smooth motion in all directions protects the hose while offering superb handling
- simple and danger-free replacement without needing special tools
- if safety locking device is activated, the hose can be tightly fixated at any given unreeled length
- protection against back-reeling of the entire line; individual length adjustment of sagging hose
- high durability, long service life

– other models on request / subject to modification and errors –

**Spring hose reels – the solution for more safety and cleanliness**

- fewer work accidents
- less hose wear
- more efficient use of materials

Spring hose reels provide enhanced order in the workplace and reduce the risk of accidents that are frequently caused by hoses lying around on the floor in an unorganized way.

Neatly rolling up hoses between work projects serves to protect materials and heighten durability.



| Input                           | Output*                        | Order No.       |
|---------------------------------|--------------------------------|-----------------|
| connection nozzle for 1/2" hose | 15 m 3/8" hose with hose clamp | <b>4602201F</b> |

\* models available with 1/4" and 1/2" hoses

**SPECIAL FEATURES:**

- versatile installation possibilities for wall, floor, and ceiling
  - galvanized tube frame and corrosion-free drum made of fiberglass-reinforced plastic
  - hard-wearing grommet made of brass and stainless steel
  - encapsulated spring
  - removable 5-fold drum locking mechanism
  - hose discharge via four reels, adjustable
  - adjustable hose stopper
  - equipped with heavy-duty PUR/PVC hose featuring cord reinforcement for max. pressure of 1.5 Mpa (15 bar)
- flexible mounting of the spring cable reels according to operating site and workplace
  - long service life, even under extremely rough operating conditions: **COST SAVINGS!**
  - high durability and therefore reduction of maintenance costs
  - maintenance-friendly and safe; simple and danger-free replacement without needing special tools
  - thanks to a safety locking device, the cable can be tightly fixated at almost any given unreeled length and offers a traction-free working experience; if the locking system is dismantled, the air hose is constantly subject to tension
  - low mechanical load on the hose, less abrasion, **EXTENDED SERVICE LIFE**
  - protection against back-reeling of the entire hose line; individual length adjustment of sagging hose
  - high durability, long service life

– other models on request / subject to modification and errors –

# Distributors - Special Models according to DGUV informations 203-006 and 203-032



The PRCD-S (Portable Residual Current Protective Device - Safety) offers electronic residual current analysis and is run as a portable intermediate device between lines that is capable of switching between poles. It is designed for alternating currents, pulsating direct currents, and phase-controlled nominal fault currents of 10 and 30 mA, with undervoltage release, protective earthing identification and monitoring, as well as external voltage recognition.



\*PRCD = Portable Residual Current Protective Device is a new general term used even in German-speaking regions.

ADVICE : "I-ON" button have to be operated with one's bare hands (without gloves, etc.)

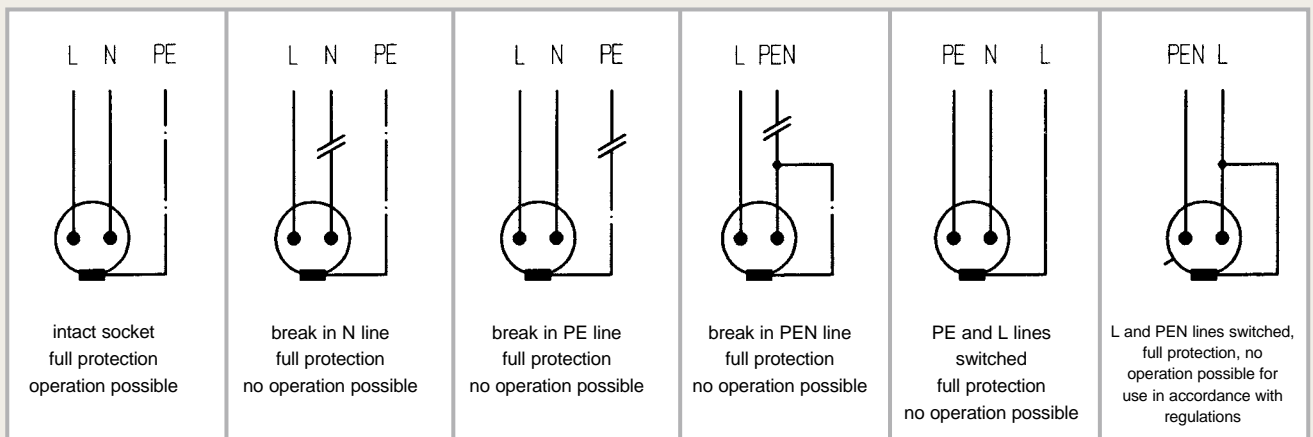
**Models:**

| Input Plug with Cable                    |       | PRCD-S 30 mA | Output Cable with Connector |  | Order Number        |
|--|-------|--------------|-----------------------------|--|---------------------|
| none                                     | —     |              |                             | —  | none                |
| solid rubber earthing sockets            | 1.5 m | 1.5 m        |                             | solid rubber earthing sockets            | <b>PR03/S1.5K</b>   |
| CEE 230 V 16 A 3p.                       | 1.5 m | 1.5 m        |                             | CEE 230 V 16 A 3p.                       | <b>PR03/CS1.5CK</b> |
| solid rubber earthing sockets angle plug | 0.2 m | 3.0 m        |                             | solid rubber earthing sockets angle plug | <b>PR03/W02K3</b>   |

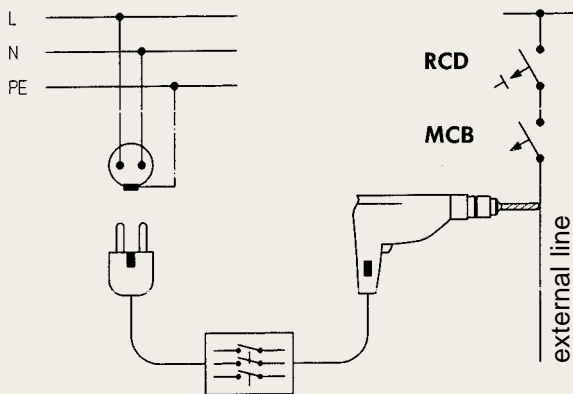
— INDUSTRIEFLEX®07 cables —  
 — other cable lengths and further models on request / subject to modification and errors —

**Extent of protection provided by the PRCD-S:**

1. For errors in the connected electrical device, protection is provided in accordance with DIN VDE 0661. Residual currents caused by defective contact lead the PRCD-S to carry out all-pole disconnection.
2. Equipment failure in the case permanent installations: the PRCD-S detects all possible errors in permanent installations and then refuses to be switched on.







- drilling into external lines
- full protection through safety measures in the external line
- PRCD-S detects the external voltage on the protective earthing yet without interrupting the protective earthing connection, thus allowing the external voltage to be activated through its own upstream RCD and MCB safety devices

## Use and Function

Especially for construction and installation sites, fire departments and emergency services.

- encapsulated models for rough operating conditions
- suitable for direct connection with the feed cable of the electrical device (H07 RN-F 3G 2.5 mm<sup>2</sup>)
- can be implemented independently of whichever plug system is being used
- large, easy-to-use ON and OFF buttons
- additional optical switch position display
- undervoltage release
- extremely short trigger time
- splashproof according to IP 55
- long service life even when subjected to excessive strain
- unit cannot be operated without personal protection if safety precautions are compulsory
- plug types can be changed without needing to make a new purchase **COST SAVINGS**
- simple and safe operation
- operational status is easy to discern
- prevention of uncontrolled restarting of machines after power returns
- the user's protection level is heightened
- designed for use in damp areas

## Technical Data:

|  |   |   |   |
|--|---|---|---|
| <b>Rated voltage:</b><br>230 V/50 Hz         | <b>Nominal Current:</b><br>16 A   | <b>Protection Class:</b><br>max. IP 55  | <b>Conductor Cross-Section:</b><br>1 mm <sup>2</sup> to 2.5 mm <sup>2</sup> |
| <b>Nominal Fault Current:</b><br>10 or 30 mA | <b>Ambient Temperature:</b><br>-25° to 40° C with a daily mean value that does not exceed 35° C | <b>Norms and Standards:</b><br>- DIN VDE 0661<br>- DIN 40040 or<br>DIN EN 60721 |   |

- in accordance with rules for safety and health protection as specified by the DGUV (DGUV Information 203-006):  
“Selection and operation of electrical installations and equipment on building and installation sites”

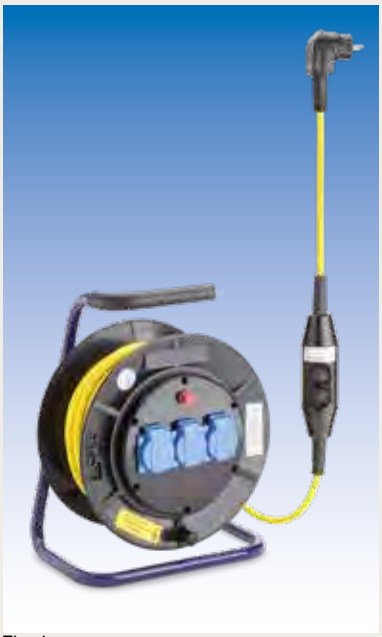


Fig. 1

**Technical Data about:**

- PRCD-S (Personal Safety Switch)
- Solid Rubber Cable Reels
- INDUSTRIEFLEX® 07 HT Cables
- ELSPRO Solid Rubber Safety Distribution Boxes

**on Pages:**

- 5.1/5.2
- 4.0
- 8.2
- 1.0

**SPECIAL FEATURES:**

- when the PRCD-S is turned on, the socket that serves as a feed point is assessed to ensure proper functioning, for example:
  1. the protective earthing conductor must be available and voltage-free
  2. the phase and the neutral conductor must be in contact (undervoltage release)
- the PRCD-S (personal safety switch) cannot be switched on after an error has been discovered

- an even higher degree of security is achieved, even when the equipment is supplied with power from unknown networks or uncontrolled sockets
- after a power failure incident, protection is offered to ensure that connected handheld instruments do not automatically shut on once power is returned, thus preventing damage
- an endangerment of persons due to errors in permanent installations is avoided; electrical equipment cannot be used until the error has been corrected

**Models:**


| Input Plug with Cable                    |       | PRCD-S 30 mA | Output Cable with ... and sockets   |   | Order Number   | Fig. |
|--|-------|--------------|---|---|----------------|------|
| solid rubber earthing sockets angle plug | 0.2 m |              |  | 25 m  |                |      |
| solid rubber earthing sockets angle plug | 0.2 m | 5 m          |   | DUISBURG solid rubber distributor with 4 earthing contact sockets | <b>5410001</b> | 2    |
| solid rubber earthing sockets            | 1.5 m | 3.0 m        |   | CELLE solid rubber distributor with 3 earthing contact sockets    | <b>5310001</b> | 3    |



Fig. 2



Fig. 3


— INDUSTRIEFLEX®07 HT cables  
— other cable lengths and further models on request / subject to modification and errors

The PRCD-S (Portable Residual Current Protective Device - Safety) offers electronic residual current analysis and is run as a portable protective system device between lines that is capable of switching between poles. It is designed for alternating currents, pulsating direct currents, and phase-controlled nominal fault currents of 10 and 30 mA, with undervoltage release, protective earthing identification and monitoring, as well as external voltage recognition.



\*PRCD = Portable Residual Current Protective Device is a new general term used even in German-speaking regions.

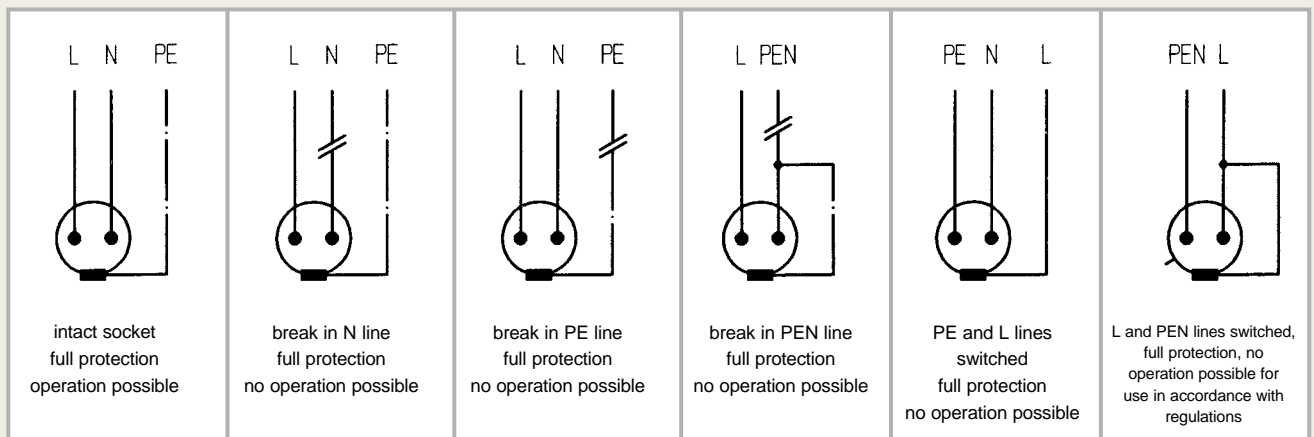
**Models:**

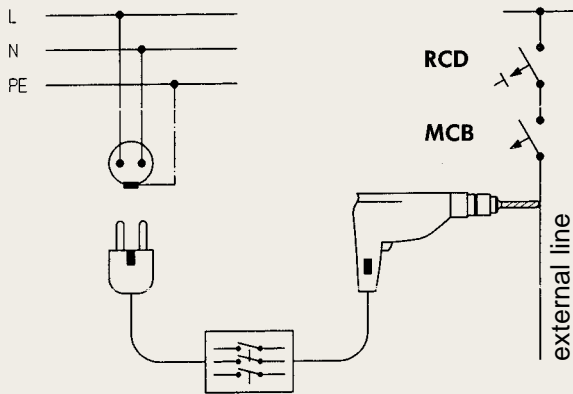
| Input Plug – water-pressure-tight – with Cable |       | PRCD-S 30 mA  | Output Cable with Connector – water-pressure-tight – |                          | Order Number          |
|--|-------|---|--|--------------------------|-----------------------|
| none   | —     |  | —  | none                     | <b>PD 03</b>          |
| earthing contact sockets                       | 1.5 m |   | 3.0 m  | earthing contact sockets | <b>PD 03/S 1,5 K3</b> |

— INDUSTRIEFLEX®07 cables —  
 — other cable lengths and further models on request / subject to modification and errors —

**Extent of protection provided by the PRCD-S:**

1. For errors in the connected electrical device, protection is provided in accordance with DIN VDE 0661. Residual currents caused by defective contact lead the PRCD-S to carry out all-pole disconnection.
2. Equipment failure in the case permanent installations: the PRCD-S detects all possible errors in permanent installations and then refuses to be switched on.





- drilling into external lines
- full protection through safety measures in the external line
- PRCD-S detects the external voltage on the protective earthing yet without interrupting the protective earthing connection, thus allowing the external voltage to be activated through its own upstream RCD and MCB safety devices

**Use and Function**

Specially designed for construction and assembly sites.

- IP 68 protection class
  - neither prolonged submersion in water nor extreme levels of dust exposure can negatively impact functionality, efficiency, or durability
  - long service life even when subjected to excessive strain
- aluminum injection molded housing
  - unit cannot be operated without personal protection if safety precautions are compulsory
  - plug types can be changed without needing to make a new purchase **COST SAVINGS**
  - simple and safe operation
  - operational status is easy to discern
  - prevention of uncontrolled restarting of machines after power returns
  - the user's protection level is heightened
- suitable for direct connection with the feed cable of the electrical device (H07 RN-F 3G 2.5 mm2)
- can be implemented independently of whichever plug system is being used
- large, easy-to-use ON and OFF buttons
- additional optical switch position display
- undervoltage release
- extremely short trigger time

**Technical Data:**

|  |   |   |   |
|--|---|---|---|
| <b>Rated voltage:</b><br>230 V/50 Hz         | <b>Nominal Current:</b><br>16 A   | <b>Protection Class:</b><br>max. IP 68  | <b>Conductor Cross-Section:</b><br>1 mm <sup>2</sup> to 2.5 mm <sup>2</sup> |
| <b>Nominal Fault Current:</b><br>10 or 30 mA | <b>Ambient Temperature:</b><br>-25° to 40° C with a daily mean value that does not exceed 35° C | <b>Norms and Standards:</b><br>- DIN VDE 0661<br>- DIN 40040 or<br>DIN EN 60721 |   |

— other cable lengths and further models on request —  
subject to modification and errors

# Aluminum Energy Columns





other standard  
RAL colors  
on request

| Model         | Height   | Number | Output                       | Sockets   | Fuse Protection  | Residual Current | RCD Typ A<br>Circuit Breaker I <sub>res</sub> | Order No.         |
|---------------|----------|--------|------------------------------|---|--|------------------|---|-------------------|
| <b>Type B</b> | 757 mm   | 1      | CEE 5p. / 32 A / 400 V / 6 h | 1 CEE 5p. / 16 A / 400 V / 6 h<br>2 earthing contact sockets<br>1 compressed air 1/2"<br>2 CAT6 network RJ45            | 1 MCB C-Char. 3p. / 16 A<br>1 MCB B-Char. 1p. / 16 A   | 1                | RCD 4p. / 40 A / 30 mA                        | <b>6AM593B001</b> |
| <b>Type C</b> | 1.040 mm | 1      | CEE 5p. / 32 A / 400 V / 6 h | 2 CEE 5p. / 16 A / 400 V / 6 h<br>2 CEE 3p. / 16 A / 230 V / 6 h<br>3 earthing contact sockets<br>1 compressed air 1/2" | 1 MCB C-Char. 3p. / 32 A<br>1 MCB C-Char. 3p. / 16 A<br>2 MCB B-Char. 1p. / 16 A<br>3 MCB B-Char. 1p. / 16 A | 1                | RCD 4p. / 63 A / 30 mA                        | <b>6AM593C003</b> |

- other models on request / subject to modification and errors -



other standard  
RAL colors  
on request

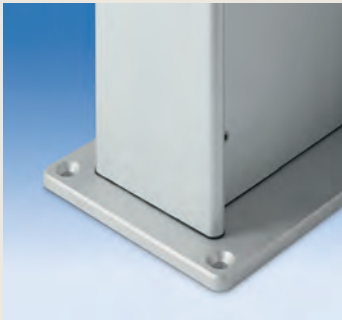
| Model         | Height   | Number  | Output | Sockets | Fuse Protection  | Residual Current         | RCD Typ A<br>Circuit Breaker I <sub>res</sub> | Order No.         |
|---------------|----------|---|--------|---------|--|--------------------------|---|-------------------|
| <b>Type B</b> | 757 mm   | 1 CEE 5p. / 32 A / 400 V / 6 h<br>1 CEE 5p. / 16 A / 400 V / 6 h<br>2 earthing contact sockets<br>1 compressed air 1/2"<br>2 CAT6 network RJ45            |        |         | 1 MCB C-Char. 3p. / 16 A<br>1 MCB B-Char. 1p. / 16 A   | 1 RCD 4p. / 40 A / 30 mA |   | <b>6AM593B001</b> |
| <b>Type C</b> | 1.040 mm | 1 CEE 5p. / 32 A / 400 V / 6 h<br>2 CEE 5p. / 16 A / 400 V / 6 h<br>2 CEE 3p. / 16 A / 230 V / 6 h<br>3 earthing contact sockets<br>1 compressed air 1/2" |        |         | 1 MCB C-Char. 3p. / 32 A<br>1 MCB C-Char. 3p. / 16 A<br>2 MCB B-Char. 1p. / 16 A<br>3 MCB B-Char. 1p. / 16 A | 1 RCD 4p. / 63 A / 30 mA |   | <b>6AM593C003</b> |

- other models on request / subject to modification and errors -



← The cover plate of each energy column is tightly secured with a rubber seal.

The feed cable enters the column through the base plate. This area houses the generously dimensioned energy-supply compartment, which ensures the quick and uncomplicated connection of the feed cable after removal of the front panel. →



← The column profile and the base plate are tightly screwed together. The base plate is affixed with four M8 screws to the respective ground surface.

**SPECIAL FEATURES:**

- closed anodized and plastic-powder-coated aluminum profile with base and cover plates made of anodized and plastic-powder-coated aluminum → corrosion-resistant and weatherproof to ward against outside elements; long service life
- EPDM seals between the individual column sections → high protection class, up to max. IP 65; suitable for use in damp areas and outdoor sites
- timeless and premium-quality appearance → the columns make a good impression in representative areas as well, such as reception or office spaces
- available in different heights and models → individual models custom-tailored to each client's needs; 4-sided configurations also possible
- individual modular configurations with the highest possible safety thanks to compartmentalization → low-voltage sockets, extra-low-voltage sockets, network sockets, air, intercom systems, switches, etc.
- range of application → offices, reception areas, stand-alone solutions, access control, production areas, laboratories, etc.
- protection guards are externally accessible and situated safely behind transparent hinged windows → simple operation of the protection guards without opening the housing
- dimensions → Footprint: 250 x 180 mm  
 Profile size: 200 x 120 mm  
 Wall thickness: min. 2.5 mm





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- dimensions → Footprint: 250 x 180 mm  
 Profile size: 200 x 120 mm  
 Wall thickness: min. 2.5 mm

# Plugs with Earthing Contact and CEE Plug Connectors

– Industrial Models –



# CEE Industrial Connector Systems

as per DIN VDE 0623 Part 1/EN 60309/IEC 60309



## SPECIAL FEATURES:

### Housing and Inserts

- breakproof and impact-resistant, highly resistant to wear and abrasion → long service life, even under demanding conditions **cost savings**
- high resistance to cold and hot temperatures → dimensionally stable and safe from -25° to +80°
- cadmium- and halogen-free → low impact on the environment
- very strong resistance to a large number of different chemicals → safe during use, even under extreme working conditions

### Contacts

- all pins and connectors are nickel-plated → increased level of corrosion resistance, prevents pins and connectors from sticking

### Terminal Screws

- easily accessible from one direction → convenient handling during the connection process
- safeguarded against accidental removal when open (ready-to-connect) → time savings

Time position of the earthing contact and color coding:

|                              | 4h               | 9h                 | 6h                 | 11h                | 7h                 | 5h                 | 12h  | 1h      | 10h     | 2h              | 3h                            | 8h                      |
|------------------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|---------|---------|-----------------|-------------------------------|-------------------------|
| Frequency [Hz]               | 50-60            | 50-60              | 50-60              | 60                 | 50-60              | 50-60              | 50-60                                      | -       | 100-300 | over 300 to 500 | 50-60                         |                         |
| Voltage [V]                  | 57/100 to 75/130 | 120/208 to 144/250 | 200/346 to 240/415 | 250/400 to 265/460 | 277/480 to 288/500 | 347/600 to 400/690 |  | over 50 | over 50 | over 50         | 220/380 to 250/440 16+32 A    |                         |
| <b>5-pol.</b><br>3-pol.+N+PE |                  |                    |                    |                    |                    |                    |  |         |         |                 |                               |                         |
| Voltage [V]                  | 100-130          | 200-250            | 380-415            | 440-460            | 480-500            | 600-690            | voltage according to isolating transformer |         | over 50 | over 50         | 380-440 only for 16+32 A      |                         |
| <b>4-pol.</b><br>3-pol.+PE   |                  |                    |                    |                    |                    |                    |  |         |         |                 |                               |                         |
| Voltage [V]                  | 100-130          | 380-415            | 200-250            |                    | 480-500            | 277                | voltage according to isolating transformer |         |         |                 | over 50 to 250 direct current | over 250 direct current |
| <b>3-pol.</b><br>2-pol.+PE   |                  |                    |                    |                    |                    |                    |  |         |         |                 |                               |                         |

View of the contact sockets as seen from the front side of the connector sockets.  
63 A + 125 A plug connectors with pilot contact.

Position of auxiliary nose to earth nose for voltages up to 50 V and frequencies up to 500 Hz and color coding.:

|                | -     | 12h   | 4h      | 2h    | 3h    | 11h             | 10h   |
|----------------|-------|-------|---------|-------|-------|-----------------|-------|
| Frequency [Hz] | 50-60 | 50-60 | 100-200 | 300   | 400   | over 400 to 500 | GS    |
| Voltage [V]    | 20-25 | 40-50 | 40-50   | to 50 | to 50 | to 50           | to 50 |
| <b>2-pole</b>  |       |       |         |       |       |                 |       |
| <b>3-pole</b>  |       |       |         |       |       |                 |       |

View of the contact sockets as seen from the front side of the connector sockets.

Item Numbers

Industrial Connector Systems

**110 V ~**  
50-60 HZ  
4 h

**230 V ~**  
50-60 HZ

**400 V ~**  
50-60 HZ  
6 h

**500 V ~**  
50-60 HZ  
7 h

**> 50 V ~**  
100-300 HZ  
10 h

**> 50 V ~**  
301-500 HZ  
2 h

Nominal Current / Ampere  
Number of poles

Plugs  
Connectors  
Surface-Mounted Sockets (tilted)

|       |       |       |       |         |        |   |    |
|-------|-------|-------|-------|---------|--------|---|----|
| S1113 | S2213 |       |       |         |        | 3 | 16 |
| S1114 | S2214 | S3814 | S5014 | S50110H | S5012H | 4 | 16 |
|       |       | S3815 |       |         |        | 5 | 16 |
| S1133 | S2233 |       |       |         |        | 3 | 32 |
| S1134 | S2234 | S3834 | S5034 | S50310H | S5032H | 4 | 32 |
|       |       | S3835 |       |         |        | 5 | 32 |



|       |       |       |       |         |        |   |     |
|-------|-------|-------|-------|---------|--------|---|-----|
| S1163 | S2263 |       |       |         |        | 3 | 63  |
| S1164 | S2264 | S3864 | S5064 | S50610H | S5062H | 4 | 63  |
|       |       | S3865 |       |         |        | 5 | 63  |
|       |       | S38X4 | S50X4 |         |        | 3 | 125 |
|       |       | S38X5 |       |         |        | 4 | 125 |
|       |       |       |       |         |        | 5 | 125 |



|       |       |       |       |         |        |   |    |
|-------|-------|-------|-------|---------|--------|---|----|
| K1113 | K2213 |       |       |         |        | 3 | 16 |
| K1114 | K2214 | K3814 | K5014 | K50110H | K5012H | 4 | 16 |
|       |       | K3815 |       |         |        | 5 | 16 |
| K1133 | K2233 |       |       |         |        | 3 | 32 |
| K1134 | K2234 | K3834 | K5034 | K50310H | K5032H | 4 | 32 |
|       |       | K3835 |       |         |        | 5 | 32 |



|       |       |       |       |         |        |   |     |
|-------|-------|-------|-------|---------|--------|---|-----|
| K1163 | K2263 |       |       |         |        | 3 | 63  |
| K1164 | K2264 | K3864 | K5064 | K50610H | K5062H | 4 | 63  |
|       |       | K3865 |       |         |        | 5 | 63  |
|       |       | K38X4 | K50X4 |         |        | 3 | 125 |
|       |       | K38X5 |       |         |        | 4 | 125 |
|       |       |       |       |         |        | 5 | 125 |



|         |         |         |         |           |          |   |    |
|---------|---------|---------|---------|-----------|----------|---|----|
| AD1113S | AD2213S |         |         |           |          | 3 | 16 |
| AD1114S | AD2214S | AD3814S | AD5014S | AD50110HS | AD5012HS | 4 | 16 |
|         |         | AD3815S |         |           |          | 5 | 16 |
| AD1133S | AD2233S |         |         |           |          | 3 | 32 |
| AD1134S | AD2234S | AD3834S | AD5034S | AD50310HS | AD5032HS | 4 | 32 |
|         |         | AD3835S |         |           |          | 5 | 32 |



|         |         |         |         |           |          |   |     |
|---------|---------|---------|---------|-----------|----------|---|-----|
| AD1163S | AD2263S |         |         |           |          | 3 | 63  |
| AD1164S | AD2264S | AD3864S | AD5064S | AD50610HS | AD5062HS | 4 | 63  |
|         |         | AD3865S |         |           |          | 5 | 63  |
|         |         | AD38X4S | AD50X4S |           |          | 3 | 125 |
|         |         | AD38X5S |         |           |          | 4 | 125 |
|         |         |         |         |           |          | 5 | 125 |



– for further models, see price list Reg. No. 12 / also, other models on request –  
– subject to modification and errors –

Item Numbers

Industrial Connector Systems

**110 V ~**  
50-60 HZ  
4 h

**230 V ~**  
50-60 HZ

**400 V ~**  
50-60 HZ  
6 h

**500 V ~**  
50-60 HZ  
7 h

**>50 V ~**  
100-300 HZ  
10 h

**>50 V ~**  
301-500 HZ  
2 h

Number of poles  
Nominal Current, Amperes

Surface-Mounted Sockets (straight)  
Surface-Mounted Plug Connectors  
Wall Sockets

|        |        |        |        |          |         |   |    |
|--------|--------|--------|--------|----------|---------|---|----|
| AD1113 | AD2213 |        |        |          |         | 3 | 16 |
| AD1114 | AD2214 | AD3814 | AD5014 | AD50110H | AD5012H | 4 | 16 |
|        |        | AD3815 |        |          |         | 5 | 16 |
| AD1133 | AD2233 |        |        |          |         | 3 | 32 |
| AD1134 | AD2234 | AD3834 | AD5034 | AD50310H | AD5032H | 4 | 32 |
|        |        | AD3835 |        |          |         | 5 | 32 |



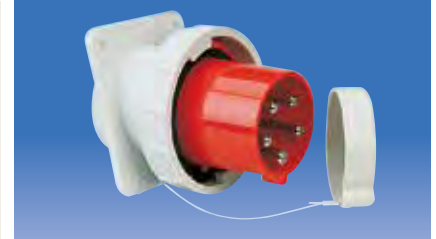
|        |        |        |        |  |  |   |     |
|--------|--------|--------|--------|--|--|---|-----|
| AD1163 | AD2263 |        |        |  |  | 3 | 63  |
| AD1164 | AD2264 | AD3864 | AD5064 |  |  | 4 | 63  |
|        |        | AD3865 |        |  |  | 5 | 63  |
|        |        | AD38X4 | AD50X4 |  |  | 3 | 125 |
|        |        | AD38X5 |        |  |  | 4 | 125 |
|        |        |        |        |  |  | 5 | 125 |



|                   |         |         |         |  |  |   |    |
|-------------------|---------|---------|---------|--|--|---|----|
| Ausführung gerade | AGS2213 |         |         |  |  | 3 | 16 |
|                   | AGS2214 | AGS3814 | AGS5014 |  |  | 4 | 16 |
|                   |         | AGS3815 |         |  |  | 5 | 16 |
|                   | AGS2233 |         |         |  |  | 3 | 32 |
|                   | AGS2234 | AGS3834 | AGS5034 |  |  | 4 | 32 |
|                   |         | AGS3835 |         |  |  | 5 | 32 |



|                   |         |         |         |  |  |   |     |
|-------------------|---------|---------|---------|--|--|---|-----|
| Ausführung schräg | ASS2263 |         |         |  |  | 3 | 63  |
|                   | ASS2264 | ASS3864 | ASS5064 |  |  | 4 | 63  |
|                   |         | ASS3865 |         |  |  | 5 | 63  |
|                   |         | ASS38X4 | ASS50X4 |  |  | 3 | 125 |
|                   |         | ASS38X5 |         |  |  | 4 | 125 |
|                   |         |         |         |  |  | 5 | 125 |



|          |         |         |         |           |          |   |    |
|----------|---------|---------|---------|-----------|----------|---|----|
| WSD1113S | WSD2213 |         |         |           |          | 3 | 16 |
| WSD1114S | WSD2214 | WSD3814 | WSD5014 | WSD50110H | WSD5012H | 4 | 16 |
|          |         | WSD3815 |         |           |          | 5 | 16 |
| WSD1133  | WSD2233 |         |         |           |          | 3 | 32 |
| WSD1134  | WSD2234 | WSD3834 | WSD5034 | WSD50310H | WSD5032H | 4 | 32 |
|          |         | WSD3835 |         |           |          | 5 | 32 |



|  |         |         |         |  |  |   |     |
|--|---------|---------|---------|--|--|---|-----|
|  | WSD2263 |         |         |  |  | 3 | 63  |
|  | WSD2264 | WSD3864 | WSD5064 |  |  | 4 | 63  |
|  |         | WSD3865 |         |  |  | 5 | 63  |
|  |         | WSD38X4 | WSD50X4 |  |  | 3 | 125 |
|  |         | WSD38X5 |         |  |  | 4 | 125 |
|  |         |         |         |  |  | 5 | 125 |



– for further models, see price list Reg. No. 12 / also, other models on request –  
– subject to modification and errors –

**Item Numbers**

**24 V ~**  
50-60 HZ

**42 V ~**  
50-60 HZ

Nominal Current/Ampere  
Pole Number

**Plug Connector**  
Surface-Mounted Socket (tilted)  
Surface-Mounted Socket (straight)  
Wall Socket

|  |       |  |       |  |  |   |    |
|--|-------|--|-------|--|--|---|----|
|  | S2412 |  | S4212 |  |  | 2 | 16 |
|  | S2413 |  | S4213 |  |  | 3 | 16 |
|  | S2432 |  | S4232 |  |  | 2 | 32 |
|  | S2433 |  | S4233 |  |  | 3 | 32 |



|  |       |  |       |  |  |   |    |
|--|-------|--|-------|--|--|---|----|
|  | K2412 |  | K4212 |  |  | 2 | 16 |
|  | K2413 |  | K4213 |  |  | 3 | 16 |
|  | K2432 |  | K4232 |  |  | 2 | 32 |
|  | K2433 |  | K4233 |  |  | 3 | 32 |



|                |         |  |         |  |  |   |    |
|----------------|---------|--|---------|--|--|---|----|
| straight model | AD2412  |  | AD4212  |  |  | 2 | 16 |
|                | AD2413  |  | AD4213  |  |  | 3 | 16 |
|                | AD2432  |  | AD4232  |  |  | 2 | 32 |
|                | AD2433  |  | AD4233  |  |  | 3 | 32 |
| tilted model   | AD2412S |  | AD4212S |  |  | 2 | 16 |
|                | AD2413S |  | AD4213S |  |  | 3 | 16 |
|                | AD2432S |  | AD4232S |  |  | 2 | 32 |
|                | AD2433S |  | AD4233S |  |  | 3 | 32 |



|  |         |  |         |  |  |   |    |
|--|---------|--|---------|--|--|---|----|
|  | WSD2412 |  | WSD4212 |  |  | 2 | 16 |
|  | WSD2413 |  | WSD4213 |  |  | 3 | 16 |
|  | WSD2432 |  | WSD4232 |  |  | 2 | 32 |
|  | WSD2433 |  | WSD4233 |  |  | 3 | 32 |



**400 V ~**  
50-60 HZ  
6 h

**Phase Inverter Plug**

|  |  |  |        |  |  |   |    |
|--|--|--|--------|--|--|---|----|
|  |  |  | PW3815 |  |  | 5 | 16 |
|  |  |  | PW3835 |  |  | 5 | 32 |



– for further models, see price list Reg. No. 12 / also, other models on request –  
– subject to modification and errors –



**MODEL:**

Order No.

**Solid rubber tripple connector with earthing contact  
3 pol. / 16 A / 230 V**

**SCH31/P**

- complying with the standard DIN 49440/441
- with metric screw connection
- with self-closing hinged lids
- with integrated voltage indicator (LED lamp)
- impact-resistant
- IP44 - splashproof
- with separate connection compartment
- for a cable diameter 6-19 mm
- flexible connection cross-section 3G1,5 / 3G2,5 mm<sup>2</sup>
- screwless, centric strain relief
- customized models: equipped with flexible INDUSTRIEFLEX® 07 HT cable

with solid rubber earthed plug and  
5 m INDUSTRIEFLEX® 07 HT 3G1,5 mm<sup>2</sup>

**S5KD**

with solid rubber earthed plug and  
10 m INDUSTRIEFLEX® 07 HT 3G1,5 mm<sup>2</sup>

**S10KD**

with solid rubber earthed plug and  
20 m INDUSTRIEFLEX® 07 HT 3G1,5 mm<sup>2</sup>

**S20KD**



**Solid rubber plug with earthing contact  
3 pol. / 16 A / 230 V**

**SCH11/PG/BL**

- complying with the standard DIN 49440/441
- with metric screw connection
- impact-resistant
- IP44 - splashproof
- for a cable diameter 6-13 mm
- flexible connection cross-section 3G1,5 / 3G2,5 mm<sup>2</sup>
- screwless, centric strain relief



**Solid rubber connector with earthing contact  
3 pol. / 16 A / 230 V**

**SCH21/K/PG/BL**

- complying with the standard DIN 49440/441
- with metric screw connection
- with self-closing hinged lid
- impact-resistant
- IP44 - splashproof
- for a cable diameter 6-13 mm
- flexible connection cross-section 3G1,5 / 3G2,5 mm<sup>2</sup>
- screwless, centric strain relief



– other models on request / subject to modification and errors –

## Industrial Plugs and Sockets with Earthing Contact

All figures show the German models

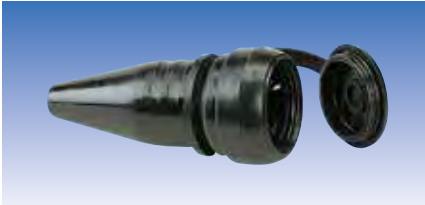
2pol. + PE, 10/16 A, 250 V, as per DIN 49440 and 49441-2-AR1 (IEC 884) DIN VDE 0620h, CEE7 VII  
2pol. + PE, 10/16 A, 250 V, SEV 1011 Order No.



**Solid rubber plug**  
– with fast-lock mechanism



**SCH11A**



**Solid rubber connector**  
– with fast-lock mechanism  
– with sleeve and cap



**SCH21A**



**Built-in socket**  
– with self-closing hinged lid



**SCH51P**

**Wall-mounted socket (lower segment)**  
– no fig. –

**SCH61P**

**Wall-mounted socket**  
– no fig. – (SCH51P + SCH61P)



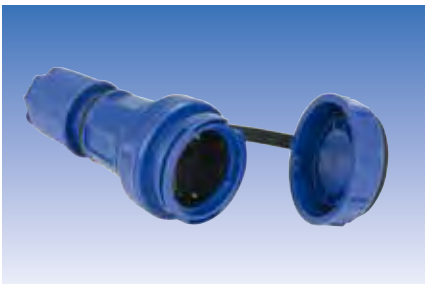
**SCH71P**



**Plug with earthing contact, water-pressure-tight**  
– with lock ring and cap  
– PC/ABS  
– DIN 49 443-R2  
– IP66/68



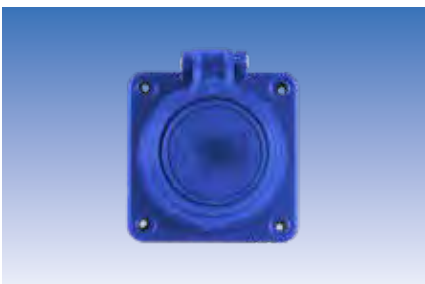
**SCH11WDP**



**Socket with earthing contact, water-pressure-tight**  
– with cap  
– PC/ABS  
– DIN 49 442-B  
– IP66/68



**SCH21WDP**



**Built-in socket, water-pressure-tight**  
– with self-closing hinged lid  
– PC/ABS  
– DIN 49 442  
– IP66/68



**SCH51WDP**

– for further models, see price list Reg. No. 12 / also, other models on request –  
– subject to modification and errors –



**MODEL:**

**Order No.**

**Solid rubber plug with earthing contact**

**SCH11/PG/BL**

- with metric screw connection
- 250V / 16A
- screwless, centric strain relief
- connectable cable diameter 6 mm - 13 mm (up to 3 G 2.5 mm<sup>2</sup>)
- impact-resistant
- dual earthing system
- IP44 splashproof



**Solid rubber connector with earthing contact**

**SCH21/K/PG/BL**

- with metric screw connection
- with self-closing hinged lid
- 250V / 16A
- screwless, centric strain relief
- impact-resistant
- IP44 splashproof



**Solid rubber triple connector with earthing contact**

**SCH31/K/PG/BL**

- with bend-protection grommet
- with self-closing hinged lids
- 250V / 16A
- impact-resistant
- IP44 splashproof



– other models on request / subject to modification and errors –

# Special Cable Solutions



## INDUSTRIEFLEX® 07 HT

Heavy-duty rubber special hose lines that are waterproof and heat-resistant and adhere to:

EN 50525-2-21

**DIN VDE 0285-525-2-21**

**H07RN-F H07RN8-F H07BN4-F**

TYPICAL FIELDS OF APPLICATION:

- construction and assembly sites
- steel and automobile industries
- heavy welding manufacturers
- chemical industry / Ex manufacturers (VDE 0165)
- municipal utilities, waterworks, and sewage treatment plants
- power plants and nuclear power stations

**For use as per HD 516 / DIN VDE 0298**

- in both dry and damp spaces
- for continuous implementation in outdoor areas
- in potentially explosive atmospheres (as per VDE 0165)
- in commercial and agricultural settings

**SPECIAL FEATURES:**

- cross-linked and compressed external sheathing material
- “closed” external sheath surface
- modified external sheath mixture
- silicon-free sheath and lead insulation
- tin-plated copper wires / inner leads
- depending on the cross-section, ultra-fine wires of either copper class 6 or copper class 5 (for details, see page 8.2)



- in engines or machines at construction sites
- in unpolluted water up to 10 meters deep and water temperature of 40° C in accordance with AD8 (e.g., for diving pumps); also water-resistant down to 50 meters in slightly polluted wastewater of industrial and domestic origin
- also designed to withstand high mechanical strain; durability is enhanced thanks to extremely tear-resistant qualities, which amounts to COST SAVINGS
- absorption of oils and chemicals is next to impossible
- resistant to UV, ozone, hydrolysis, and inclement weather; also flame-resistant, immediately self-extinguishing, infusible
- extremely flexible, even at low temperatures
- easy implementation in paint-related contexts (e.g., automotive industry); no coating effect or aggressive deposits (e.g., in electronics / circuit boards)
- no adverse interaction between copper and lead insulation material; no corrosion and no scaling of the connection points
- maximal flexibility for easy handling, even under challenging conditions, lower lead rupture, and therefore COST SAVINGS thanks to HIGH DURABILITY

– other models on request / subject to modification and errors –  
price list under Reg. No. 12

| Cross-Section in mm <sup>2</sup> | Copper Class | Average Outside Diameter in mm | Order No.   |
|----------------------------------|--------------|--------------------------------|-------------|
| 2 x 1.00                         | 6            | 8.2                            | SL07HT 210  |
| 3 G 1.00                         | 6            | 9.1                            | SL07HT 310  |
| 4 G 1.00                         | 6            | 9.6                            | SL07HT 410  |
| 5 G 1.00                         | 5            | 11.6                           | SL07HT 510  |
| 2 x 1.50                         | 6            | 9.1                            | SL07HT 215  |
| 3 G 1.50                         | 6            | 9.8                            | SL07HT 315  |
| 4 G 1.50                         | 6            | 11.3                           | SL07HT 415  |
| 5 G 1.50                         | 5            | 11.9                           | SL07HT 515  |
| 7 G 1.50                         | 5            | 15.7                           | SL07HT 715  |
| 12 G 1.50                        | 5            | 18.5                           | SL07HT 1215 |
| 2 x 2.50                         | 5            | 10.9                           | SL07HT 225  |
| 3 G 2.50                         | 5            | 11.6                           | SL07HT 325  |
| 4 G 2.50                         | 5            | 12.7                           | SL07HT 425  |
| 5 G 2.50                         | 5            | 13.9                           | SL07HT 525  |
| 2 G 4.00                         | 5            | 12.9                           | SL07HT 240  |
| 5 G 4.00                         | 5            | 16.9                           | SL07HT 540  |
| 2 x 6.00                         | 5            | 15.1                           | SL07HT 260  |
| 5 G 6.00                         | 5            | 18.9                           | SL07HT 560  |
| 5 G 10.00                        | 5            | 25.5                           | SL07HT 5100 |
| 5 G 16.00                        | 5            | 28.9                           | SL07HT 5160 |

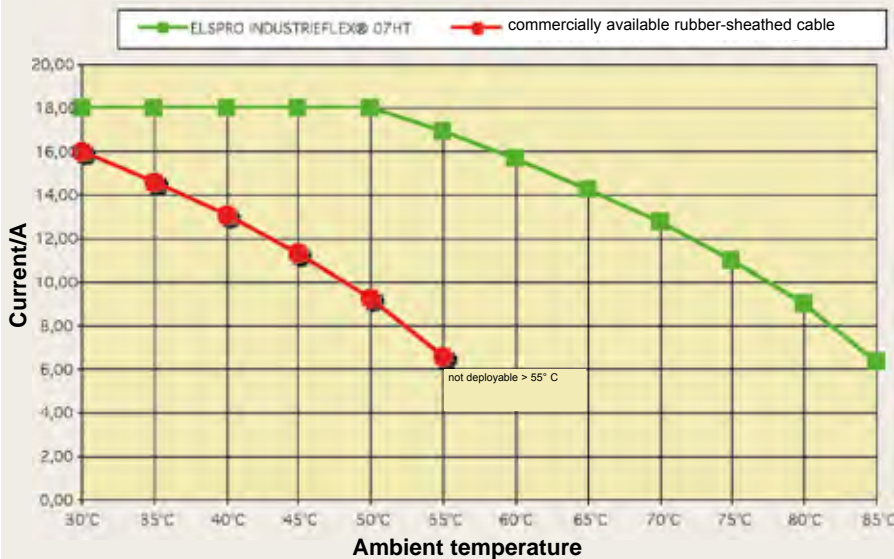
- other models on request; if desired also with imprinting (e.g., company name)
- presentation: drum or 100 m rings
- inside wiring up to 5 leads, color-coded  
> 5-lead numbering

### TECHNICAL DATA:

Nominal current: 450 V / 750 V  
 Conductor temperature: up to +90°C  
 Ambient temperature: up to +85°C  
 up to -25°C (flexible) as per HD 22.4,  
 also deployable down to -35°C

Test voltage: 2,500 V  
 Flame resistance: DIN EN 60332-1-2  
 Tensile load: max. 15 N/mm<sup>2</sup> conductor cross-section  
 Cross-sections: up to max. 5 x 16 mm<sup>2</sup> possible

Current load of a 1.5 mm<sup>2</sup> cable in connection to temperature



The adjacent chart presents the values for standard cables subjected to ambient temperatures of up to 55° C (H07RN-F) as compared to INDUSTRIEFLEX® 07 HT cables.

### PLEASE NOTE:

The values displayed do not apply to feed lines attached to house or hand units. In order to avoid accidents caused by too high of temperatures along the external sheath, the latter may only be operated with a current load capacity in accordance with VDE 0298, chart 11, columns 3 and 4, regardless of the respective ambient temperature.

**Please take the conditions of your specific operating situation into account!**

In order to ensure that customers receive consistently high quality when using cables under the name INDUSTRIEFLEX®, protection is provided through the German Patent Office under the number 2043633.

## Extension Cables with INDUSTRIEFLEX® 07 HT

### Models:

- any desired length
- all customary connection systems
- partially customized solutions also possible
- multipole connector systems in all sizes
- other cable types on request
- K2 marking



### BESONDERHEITEN:

- ULTRA-FINE copper (see 8.2) → considerably lower chance of conductor breakage; easy handling even under difficult conditions
- high-quality plug connectors with earthing contact displaying VDE, hammer, and drip symbols → use in indoor and outdoor areas, such as in the open air, in damp rooms, and at construction and assembly sites
- CEE plug connectors made of polyamide 6, with nickel-plated contacts → long service life even under extreme conditions, **COST SAVINGS**
- made and tested by specialized professionals → cables ready to use immediately

Technical data and other specifics pertaining to the INDUSTRIEFLEX® HT cable can be found on pages 8.1 + 8.2

| Plug                  | Length              | Connector             | Order No.   | Version                             | Order No.                                   |
|-----------------------|---------------------|-----------------------|---|-------------------------------------|---|
| earthing contact      | 5 m<br>10 m<br>20 m | earthing contact      | <b>S5K</b><br><b>S10K</b><br><b>S20K</b>                | with triple connector               | <b>S5KD</b><br><b>S10KD</b><br><b>S20KD</b> |
| CEE 230V/3pol.<br>16A | 5 m<br>10 m<br>20 m | CEE 230V/3pol.<br>16A | <b>CS5K2213</b><br><b>CS10K2213</b><br><b>CS20K2213</b> |                                     |   |
| CEE 400V/5pol.<br>16A | 5 m<br>10 m<br>20 m | CEE 400V/5pol.<br>16A | <b>CS5K1</b><br><b>CS10K1</b><br><b>CS20K1</b>          | with phase inverter plug on request |   |
| 32A                   | 5 m<br>10 m<br>20 m | 32A                   | <b>CS5K3</b><br><b>CS10K3</b><br><b>CS20K3</b>          | with phase inverter plug on request |   |
| 63A                   | 5 m<br>10 m<br>20 m | 63A                   | <b>CS5K6</b><br><b>CS10K6</b><br><b>CS20K6</b>          |                                     |   |

– other models on request / subject to modification and errors –  
price list under Reg. No. 12

Selection of our cables always adheres to the VDE regulations valid at the present time.

## Device Connecting Cables INDUSTRIEFLEX® 07 HT

For portable devices, electric tools, handheld units, etc.

### RANGE OF APPLICATION:

- construction and assembly sites
- industry, trade, and agriculture

- special rubber cable
- signal color yellow
- tin-plated inside wiring
- internal marker threads
- type code printed on external sheath



### MODEL:

- with molded contour plug and 2-lead cable
- with molded earthed plug and 3-lead cable
- sheath has been removed from the end, while leads have been insulated and fitted with end ferrules

### SPECIAL FEATURES:

- ergonomic and anti-slip plug form → minimized installation time - COST SAVINGS
- ready to use; featuring extended protective earthing conductor (3-lead) → easy handling, even under rough conditions
- ultra-fine copper wire (highly flexible)

Technical data and other specifics pertaining to the INDUSTRIEFLEX® HT cable can be found on pages 8.1 + 8.2

| Length                    | Cross-Section           | Outside Ø ca. | Plug Type    | Order No.   |
|---------------------------|-------------------------|---------------|--------------|---|
| 2 m<br>3 m<br>5 m<br>10 m | 2 x 1.0 mm <sup>2</sup> | 8.2 mm        | contour plug | <b>210 M2 SL07</b><br><b>210 M3 SL07</b><br><b>210 M5 SL07</b><br><b>210 M10 SL07</b> |
| 2 m<br>3 m<br>5 m<br>10 m | 2 x 1.5 mm <sup>2</sup> | 9.1 mm        | contour plug | <b>215 M2 SL07</b><br><b>215 M3 SL07</b><br><b>215 M5 SL07</b><br><b>215 M10 SL07</b> |
| 2 m<br>3 m<br>5 m<br>10 m | 3 G 1.5 mm <sup>2</sup> | 9.8 mm        | earthed plug | <b>315 M2 SL07</b><br><b>315 M3 SL07</b><br><b>315 M5 SL07</b><br><b>315 M10 SL07</b> |

– other models on request / subject to modification and errors –  
price list under Reg. No. 12

## Device Connecting Cables INDUSTRIEFLEX® 05 HT

### For hand-operated electrical equipment

- special rubber cable
- signal color yellow
- tin-plated inside wiring
- internal marker threads
- type code printed on external sheath



### RANGE OF APPLICATION:

- permissible at construction and assembly sites for up to 4 m in length, provided that no other supplementary DIN/VDE regulations apply (e.g., 0740)

**\* with small outside diameter \***

### MODEL:

- with molded contour plug and 2-lead cable
- with molded earthed plug and 3-lead cable
- sheath has been removed from the end, while leads have been insulated and fitted with end ferrules

### SPECIAL FEATURES:

- small outside diameter → effortless installation, even in the case of small device entry
- ergonomic and anti-slip plug form → easy plugging and unplugging
- ready to use; featuring extended protective earthing conductor (3-lead) → minimized installation time - COST SAVINGS
- ultra-fine copper wire (highly flexible) → easy handling, even under rough conditions

Technical data and other specifics pertaining to the INDUSTRIEFLEX® 05 HT cable can be found on page 8.8

| Length | Cross-Section           | Exterior Ø ca. | Plug Type    | Order No.      |
|--------|-------------------------|----------------|--------------|----------------|
| 4 m    | 2 x 1.0 mm <sup>2</sup> | 6.8 mm         | contour plug | <b>210M4IF</b> |
| 4 m    | 3 G 1.0 mm <sup>2</sup> | 7.2 mm         | earthed plug | <b>310M4IF</b> |

– other models on request / subject to modification and errors –  
price list under Reg. No. 12

## Device Connecting Cables with Your Company Name

### INDUSTRIEFLEX® 07 HT and INDUSTRIEFLEX® 05 HT

- special rubber cable
- signal color yellow
- tin-plated inside wiring
- internal marker threads
- type code printed on external sheath



#### MODEL:

- with molded contour plug and 2-lead cable
- with molded earthed plug and 3-lead cable
- sheath has been removed from the end, while leads have been insulated and fitted with end ferrules

#### SPECIAL FEATURES:

- with imprinting using state-of-the art technology, e.g., company name, department, telephone and fax numbers → clear recognition of company property; assignment of devices according to department; advertising
- special ink → imprint is smudgeproof, even when in contact with chemicals (oils, solvents, gasoline, etc.)
- ultra-fine copper wire (highly flexible) → all handheld units can be marked
- delivery available at a minimum purchase of 20 cables per model → easy handling, even under rough conditions

#### INDUSTRIEFLEX® 07 HT      Technical data and further special features on pages 8.1 and 8.2

| Length | Cross-Section           | Outside Ø ca. | Plug Type    | Order No.            |
|--------|-------------------------|---------------|--------------|----------------------|
| 3 m    | 2 x 1.0 mm <sup>2</sup> | 8.2 mm        | contour plug | <b>210 M3 SL07/A</b> |
| 5 m    |                         |               |              | <b>210 M5 SL07/A</b> |
| 3 m    | 2 x 1.5 mm <sup>2</sup> | 9.1 mm        | contour plug | <b>215 M3 SL07/A</b> |
| 5 m    |                         |               |              | <b>215 M5 SL07/A</b> |
| 3 m    | 3 G 1.5 mm <sup>2</sup> | 9.8 mm        | earthed plug | <b>315 M3 SL07/A</b> |
| 5 m    |                         |               |              | <b>315 M5 SL07/A</b> |

#### INDUSTRIEFLEX® 05 HT      Technical data and further special features on pages 8.8

|     |                         |        |              |                  |
|-----|-------------------------|--------|--------------|------------------|
| 4 m | 2 x 1.0 mm <sup>2</sup> | 6.8 mm | contour plug | <b>210M4IF/A</b> |
| 4 m | 3 G 1.0 mm <sup>2</sup> | 7.2 mm | earthed plug | <b>310M4IF/A</b> |

– other models on request / subject to modification and errors –  
price list under Reg. No. 12



## Technical data for the connecting cables (page 8.6) INDUSTRIEFLEX® 05 HT

Special rubber hose line with internal marker threads and type code printed on external sheath;  
color: yellow

|                                   |   |         |
|-----------------------------------|---|---------|
| Regulations:                      | DIN/VDE 0282-1/-2/-4/0293-308/0295/0298-3 |         |
| Nominal voltage:                  | U <sub>o</sub> /U = 300/500 V             | SL05 HT |
| Alternating current test voltage: | U <sub>o</sub> /U = 2000 V                | SL05 HT |

|  |   |
|--|---|
| Operating temperature:                       | max. 60°C<br>-40°C (retains full functionality)<br>-25°C, working with cable possible |
| Combustion behavior and self-extinguishment: | DIN VDE 0482-332-1/-2 SL05 HT   |

|  |  |
|--|--|
| Conductors:                              | copper, flexible, tin-plated                             |
| Bending radii (in open wiring contexts): | 3d ≤ 8mm outside diameter<br>4d > 8mm ≤ 12mm, 5d > 12 mm |
| Tensile load:                            | max. 15 N/mm <sup>2</sup>                                |

### SPECIAL FEATURES:

- cross-linked and compressed external sheathing material → also designed to withstand high mechanical strain, enormously TEAR-RESISTANT, long service life
- “closed” external sheath surface → absorption of oils and chemicals is next to impossible; extremely high durability
- modified external sheath mixture → resistant to UV, ozone, hydrolysis, and inclement weather; also flame-resistant, immediately self-extinguishing, infusible  
→ extremely flexible, even at low temperatures
- silicon-free sheath and lead insulation → easy implementation in paint-related contexts (e.g., automotive industry); no coating effect or aggressive deposits (e.g., in electronics / circuit boards)
- tin-plated inside wiring → no adverse interaction between copper and lead insulation material  
→ no corrosion and no scaling of the connection points

### TYPICAL FIELDS OF APPLICATION:

- construction and assembly sites
- steel and automobile industries
- municipal utilities, waterworks, and sewage treatment plants
- power plants and nuclear power stations

**In order to ensure that customers receive consistently high quality when using cables under the name INDUSTRIEFLEX®, protection is provided through the German Patent Office under the number 2043633.**

**ELSPRO-FLEX® G 05** (from 2 x 0.75 - 5 G 1.00 mm<sup>2</sup>)

**ELSPRO-FLEX® G 07** (from 2 x 1.50 - 5 G16.00 mm<sup>2</sup>)

**Special hose line with modified polyurethane sheath and EPR lead insulation**

- cable certified by VDE and HAR
- tin-plated CU conductor
- signal color yellow
- type code printed on external sheath



**SPECIAL FEATURES:**

- **ULTRA-FINE copper wire (class 6), highly flexible** → significantly lower chance of "lead rupture"; easy handling, even under rough conditions
- halogen-free → no harmful halogens released (e.g., chlorine/hydrochloric acid)
- silicon-free sheath and lead insulation → easy implementation in paint-related contexts; no coating effect or aggressive deposits
- withstands high mechanical loads → long service life, fewer production losses **COST SAVINGS**
- resistant to grease, organic and inorganic oils (as per VDE 0472/803A) → next to no "swelling" of the cable
- outstanding abrasion resistance → implementable under high shear and abrasion loads
- excellent resistance to tear and high notch tensile strength → any damage to the sheath remains "localized"
- high radiation resistance → can be used in various contexts, e.g., with radiation equipment, fusion research facilities, particle accelerators, etc.

| Outside Diameter in mm |      | Cross-Section<br>in mm <sup>2</sup> | Order No.       |
|------------------------|------|-------------------------------------|-----------------|
| Mean Value             | Max. |                                     |                 |
| 7.2                    | 8.1  | 3 G 0.75                            | <b>G05 3075</b> |
| 7.8                    | 8.8  | 4 G 0.75                            | <b>G05 4075</b> |
| 8.8                    | 9.8  | 5 G 0.75                            | <b>G05 5075</b> |
| 7.1                    | 8.0  | 2 x 1.00                            | <b>G05 210</b>  |
| 7.5                    | 8.5  | 3 G 1.00                            | <b>G05 310</b>  |
| 7.1                    | 9.3  | 4 G 1.00                            | <b>G05 410</b>  |
| 8.7                    | 9.8  | 2 x 1.50                            | <b>G07 215</b>  |
| 10.3                   | 11.6 | 2 x 2.50                            | <b>G07 225*</b> |
| 9.2                    | 10.4 | 3 G 1.50                            | <b>G07 315</b>  |
| 11.0                   | 12.4 | 3 G 2.50                            | <b>G07 325*</b> |
| 10.2                   | 11.6 | 4 G 1.50                            | <b>G07 415</b>  |
| 11.1                   | 12.7 | 5 G 1.50                            | <b>G07 515*</b> |
| 13.7                   | 15.3 | 5 G 2.50                            | <b>G07 525*</b> |
| 16.0                   | 17.9 | 5 G 4.00                            | <b>G07 540*</b> |
| 17.9                   | 20.0 | 5 G 6.00                            | <b>G07 560*</b> |
| 13.0                   |      | 7 G 1.50                            | <b>G07 715*</b> |

Inside wiring up to 5 leads, color-coded > 5-lead numbering

\* Model with copper class 5

– other models on request / subject to modification and errors –

**REGULATIONS:** DIN VDE 0282 (Part 10)

**EXTERIOR SHEATH:**

- modified polyurethane
- color: yellow

**VOLTAGES:**

|                                   |                    |     |
|-----------------------------------|--------------------|-----|
| Nominal voltage:                  | $U_0/U = 300/500V$ | G05 |
| Nominal voltage:                  | $U_0/U = 450/750V$ | G07 |
| Operating voltage:                | $U_0/U = 330/570V$ | G05 |
| Operating voltage:                | $U_0/U = 500/865V$ | G07 |
| Alternating current test voltage: | <b>3000V</b>       |     |

**TEMPERATURES:**

|  |          |
|--|----------|
| during operation (conductor temperature) | + 90° C  |
| in the case of a short circuit           | + 200° C |
| lowest working temperature, flexible     | - 35° C  |
| lowest working temperature, resting      | - 45° C  |

**BENDING RADII:**

|                       |        |
|-----------------------|--------|
| $d \leq 8 \text{ mm}$ | $= 2d$ |
| $d \text{ 8-12 mm}$   | $= 3d$ |
| $d > 12 \text{ mm}$   | $= 4d$ |

**INSIDE WIRING:**

- ULTRA-FINE-WIRED,  
tin-plated copper conductor (class 6 / DIN/VDE 0295 / IEC 228)
- special EPR insulation in accordance with DIN/VDE 0207T20



Prices are found under section no. 12

Skin contact should be avoided when the cable is used under high-temperature conditions.

For use in areas where

- hot components are touched
- “heavy” sweating occurs, beads of sweat appear
- thermal radiation is present
- there is exposure to open fire  
(e.g., steel production and processing)

please use our INDUSTRIEFLEX® cables (catalog pages 8.1-8.8) or  
ELSPRO-FLEX® THERM-MF cables (catalog page 8.17) instead!

# Polyurethane Extension Cables ELSPRO-FLEX® G07

## MODELS:

- all customary connection systems
- partially customized solutions also possible
- any desired length
- K2 marking



## SPECIAL FEATURES:

- *ULTRA-FINE* Kupfer (hochflexibel) → significantly lower chance of “lead rupture”; easy handling, even under rough conditions
- high-quality plug connectors with earthing contact displaying VDE, hammer, and drip symbols → use in indoor and outdoor areas, such as in the open air, in damp rooms, and at construction and assembly sites
- CEE plug connectors made of polyamide 6, with nickel-plated contacts → long service life, even under extreme conditions, **COST SAVINGS**
- made and tested by specialized professionals → cables ready to use immediately
- largely UV- and ozone-resistant → longer service life in outdoor areas

Technical data and other specifics pertaining to the ELSPRO-FLEX® G cable can be found on pages 8.9 + 8.10

| Plug                 | Length              | Connector            | Order No.  | Version                                     | Order No.                                      |
|----------------------|---------------------|----------------------|--|---|--|
| earthed plug         | 5 m<br>10 m<br>20 m | earthed plug         | <b>S5KG</b><br><b>S10KG</b><br><b>S20KG</b>                | with triple connector with earthing contact | <b>S5KDG</b><br><b>S10KDG</b><br><b>S20KDG</b> |
| CEE 230V/3pol<br>16A | 5 m<br>10 m<br>20 m | CEE 230V/3pol<br>16A | <b>CS5K2213G</b><br><b>CS10K2213G</b><br><b>CS20K2213G</b> |   |  |
| CEE 400V/5pol<br>16A | 5 m<br>10 m<br>20 m | CEE 400V/5pol<br>16A | <b>CS5K1G</b><br><b>CS10K1G</b><br><b>CS20K1G</b>          | with phase inverter plug on request         |  |
| 32A                  | 5 m<br>10 m<br>20 m | 32A                  | <b>CS5K3G</b><br><b>CS10K3G</b><br><b>CS20K3G</b>          | with phase inverter plug on request         |  |

– other models on request / subject to modification and errors –  
price list under Reg. No. 12

Selection of our cables always adheres to the VDE regulations valid at the present time.

## Polyurethane Device Connecting Cables ELSPRO-FLEX® G05/G07

Special hose line with modified polyurethane sheath and EPR lead insulation

### RANGE OF APPLICATION:

- construction and assembly sites
- industry, trade, and agriculture
- cable certified by VDE and HAR
- tin-plated CU conductor
- signal color yellow
- type code printed on external sheath

### MODEL:

- with molded contour plug and 2-lead cable
- with molded earthed plug and 3-lead cable
- sheath has been removed from the end, while leads have been insulated and fitted with end ferrules



### SPECIAL FEATURES:

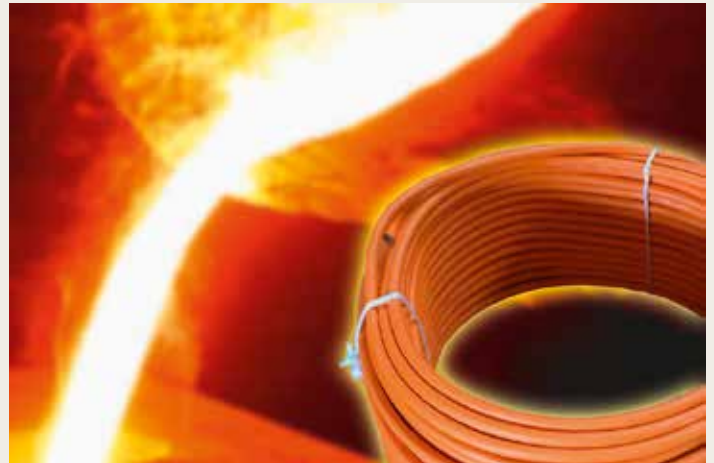
- ULTRA-FINE copper (highly flexible) → significantly lower chance of “lead rupture”; easy handling, even under rough conditions
- ergonomic and anti-slip plug form → easy plugging and unplugging
- ready to use; featuring extended protective earthing conductor (3-lead) → COST SAVINGS THANKS TO MINIMIZED INSTALLATION TIME
- largely UV- and ozone-resistant → longer service life in outdoor areas

Technical data and other specifics pertaining to the ELSPRO-FLEX® G cable can be found on pages 8.9 + 8.10

| Length     | Cross-Section                                      | Outside Ø ca. | Plug Type    | Order No.                              |
|------------|--|---------------|--------------|--|
| 3 m<br>5 m | 2 x 1.0 mm <sup>2</sup><br>2 x 1.0 mm <sup>2</sup> | 7.1 mm        | contour plug | <b>210 M3 G05</b><br><b>210 M5 G05</b> |
| 3 m<br>5 m | 2 x 1.5 mm <sup>2</sup><br>2 x 1.5 mm <sup>2</sup> | 8.7 mm        | contour plug | <b>215 M3 G07</b><br><b>215 M5 G07</b> |
| 3 m<br>5 m | 3 G 1.5 mm <sup>2</sup><br>3 G 1.5 mm <sup>2</sup> | 9.2 mm        | earthed plug | <b>315 M3 G07</b><br><b>315 M5 G07</b> |

– other models on request / subject to modification and errors –  
price list under Reg. No. 12

- **color of exterior sheath: orange**
- withstands high mechanical loads, features abrasion resistance
- flexible
- oil- and acid-resistant (oil resistance as per VDE 0472 T 803)
- silicone- and halogen-free
- high resistance to ageing (even when subject to continuous use)
- will not become brittle or hardened prematurely
- **infusible**



### SPECIAL FEATURES:

- high mechanical strength → in most fields of application, service life is extended significantly; in most cases no extra protective measures are needed - **COST SAVINGS**
- abrasion- and tear-resistant → low degree of exterior sheath damage
- strong resistance to chemicals → implementation even under challenging conditions: oils, grease, lyes, diverse chemical substances - **in certain cases a trial run may be advisable** -
- halogen-free → additional safety in the case of fire
- enhanced flexibility → easy handling
- **high resistance to ageing** → will not become brittle or hardened prematurely; extended service life (even under continuous use) **COST SAVINGS**

– other models on request / subject to modification and errors –

| Cross-Section<br>in mm <sup>2</sup> | Approx. Outside<br>Diameter in mm | Approx. Weight<br>in kg/km | Order No.  |
|-------------------------------------|-----------------------------------|----------------------------|------------|
| 2 x 0.75                            | 7.0                               | 70.0                       | HBFL2075E  |
| 3 G 0.75                            | 7.5                               | 80.0                       | HBFL3075E  |
| 4 G 0.75                            | 8.5                               | 100.0                      | HBFL4075E  |
| 5 G 0.75                            | 9.0                               | 130.0                      | HBFL5075E  |
| 7 G 0.75                            | 10.5                              | 160.0                      | HBFL7075E  |
| 12 G 0.75                           | on request                        | on request                 | HBFL12075E |
| 3 G 1.00                            | 8.0                               | 100.0                      | HBFL310E   |
| 2 x 1.50                            | 8.0                               | 90.0                       | HBFL215E   |
| 3 G 1.50                            | 9.0                               | 130.0                      | HBFL315E   |
| 4 G 1.50                            | 10.0                              | 150.0                      | HBFL415E   |
| 5 G 1.50                            | 11.0                              | 190.0                      | HBFL515E   |
| 7 G 1.50                            | 13.0                              | 240.0                      | HBFL715E   |
| 12 G 1.50                           | 17.0                              | 430.0                      | HBFL1215E  |
| 25 G 1.50                           | 24.0                              | 770.0                      | HBFL2515E  |
| 3 G 2.50                            | 11.0                              | 190.0                      | HBFL325E   |
| 4 G 2.50                            | 12.0                              | 230.0                      | HBFL425E   |
| 5 G 2.50                            | 13.0                              | 290.0                      | HBFL525E   |
| 5 G 4.00                            | on request                        | on request                 | HBFL540E   |
| 5 G 6.00                            | 17.0                              | 530.0                      | HBFL560E   |
| 5 G 16.00                           | 25.5                              | 1,300.0                    | HBFL5160E  |

Presentation: 100 m rings or drum; delivery by arrangement

Inside wiring up to 5 leads, color-coded

> 5-lead numbering

#### TECHNICAL DATA:

|  |   |
|--|---|
| Litz wire:                                 | fine, tin-plated copper VDE 0295 class 5,<br>IEC 60228 class 5, HD 383, lead insulation made of cross-linked<br>polymer compound (HI 1) |
| Bending radius:                            | ≥ 4d (fixed installation)<br>≥ 5d (flexible use) DIN VDE 0298 / T3  |
| Temperature range:                         | -25°C to +135°C, 1-2 hrs.: +190°C, 2-3 min.: up to +600°C   |
| Nominal voltage:                           | $U_0 / U / U_{max} = 300 / 500 / 550$ V   |
| Test voltage:                              | 2,000 V AC  |
| External sheath:                           | cross-linked polymer compound (VDE 0207/HM 1),<br>oil-resistant (VDE 0472 T 803)  |
| Halogen-free:                              | EN 50267-2-1 / EN 60684-2   |
| Non-corrosive:                             | EN 50267-2-2  |
| Ecologically sound:                        | EN 50305-9.2  |
| Flame-retardant and<br>self-extinguishing: | EN 60332-2-1  |

– other models on request / subject to modification and errors –

The ELSPRO-FLEX® THERM-MF cable is excellently suited for all thermal areas within industrial contexts, where conventional silicone cables cannot be used (or only conditionally) due to their inability to handle high mechanical loads.



### SPECIAL FEATURES:

- high mechanical strength
  - abrasion- and tear-resistant
  - strong resistance to chemicals
  - high flash point
  - halogen-free
  - enhanced flexibility
- in most fields of application, service life is extended significantly; in most cases no extra protective measures are needed - **COST SAVINGS**
  - low degree of exterior sheath damage
  - implementation even under challenging conditions: oils, grease, lyes, diverse chemical substances - **in certain cases a trial run may be advisable -**
  - in the case of fire, the charred exterior sheath provides an added insulating effect (safety aspect)
  - additional safety in the case of fire
  - easy handling

### TECHNICAL DATA:

|                                   |   |
|-----------------------------------|---|
| Litz wire:                        | fine, tin-plated copper wire VDE 0295 class 5/CEI20-29C5<br>lead insulation EI 2 VDE 0207 T20 (notch-resistant) |
| Bending radius under dynamic use: | 15 d  |
| Temperature range:                | - 50°C to at least +180°C, even higher for short periods  |
| Nominal voltage:                  | 450/750 V   |
| Test voltage:                     | 2,500 V AC  |
| External sheath:                  | mechanically resistant and notch-resistant special black silicone mixture                                       |
| Halogen-free:                     | IEC 754-1 and VDE 0472 T813/IEC 754-2   |
| Breakdown voltage:                | 20 KV/mm  |



## ELSPRO-FLEX® THERM-MF

| Cross-Section<br>in mm <sup>2</sup> | Outside Diameter in mm |     | Order No.     |
|-------------------------------------|------------------------|-----|---------------|
|                                     | Mean Value             | +/- |               |
| 2 x 0.75                            | 6.4                    | 0.2 | <b>MF2075</b> |
| 3 G 0.75                            | 6.9                    | 0.2 | <b>MF3075</b> |
| 4 G 0.75                            | 7.6                    | 0.2 | <b>MF4075</b> |
| 5 G 0.75                            | 8.5                    | 0.2 | <b>MF5075</b> |
| 7 G 0.75                            | 9.2                    | 0.2 | <b>MF7075</b> |
| 3 G 1.00                            | 7.1                    | 0.2 | <b>MF310</b>  |
| 2 x 1.50                            | 8.0                    | 0.2 | <b>MF215</b>  |
| 3 G 1.50                            | 8.4                    | 0.2 | <b>MF315</b>  |
| 4 G 1.50                            | 9.5                    | 0.2 | <b>MF415</b>  |
| 5 G 1.50                            | 10.4                   | 0.2 | <b>MF515</b>  |
| 7 G 1.50                            | 11.3                   | 0.3 | <b>MF715</b>  |
| 12 G 1.50                           | 14.0                   | 0.3 | <b>MF1215</b> |
| 16 G 1.50                           | 17.1                   | 0.4 | <b>MF1615</b> |
| 25 G 1.50                           | 19.9                   | 0.4 | <b>MF2515</b> |
| 3 G 2.50                            | 9.8                    | 0.2 | <b>MF325</b>  |
| 4 G 2.50                            | 11.1                   | 0.3 | <b>MF425</b>  |
| 5 G 2.50                            | 12.4                   | 0.3 | <b>MF525</b>  |
| 5 G 4.00                            | 14.0                   | 0.3 | <b>MF540</b>  |
| 5 G 6.00                            | 16.6                   | 0.4 | <b>MF560</b>  |

Inside wiring up to 5 leads, color-coded  
> 5-lead numbering

The designation MF stands for *heightened mechanical strength* and *stronger tear resistance*. Presentation: 100 m rings or drum

– other models on request / subject to modification and errors –  
price list under Reg. No. 12

## Special Control Cable with Bearer Organs

### FIELDS OF APPLICATION:

- crane and conveyor systems
- elevators and pendant control stations
- high-bay warehouse and pit construction
- *indoors and outdoors*

### CONDUCTOR:

- bare ultra-fine copper litz wire

### LEAD MARKING:

- single-color and consecutive numbering
- with green/yellow protective earthing conductor

### OUTER SHEATH:

- special plastic
- cold-resistant, weatherproof, notch ductile, abrasion-resistant

### SHEATH COLOR:

- signal colour yellow (or black on request)

### TEMPERATURE RANGE:

- from -30°C to +70°C

### BENDING RADIUS:

- with alternate bending 12 x D

### PACKAGING:

- ring ware in any desired length (full meters only)
- longer lengths on drums

### BESONDERHEITEN:

- 2 galvanized, plastic-coated steel cords are laterally
- 140 kp breaking load per cord
- no need to fasten separate cords - **TIME SAVINGS**
- a considerably higher tensile load and almost no axial distortions prolong service life - **COST SAVINGS**



**NOMINAL VOLTAGE:** U<sub>0</sub>/U 300/500 volt  
**TEST VOLTAGE:** 3000 volt

| Cross-Section             | Outside Ø (with bearer organs) ca. | Order No.       |
|---------------------------|------------------------------------|-----------------|
| 12 x 1.00 mm <sup>2</sup> | 15.0 (27.0) mm                     | <b>SLSD1210</b> |
| 18 x 1.00 mm <sup>2</sup> | 17.0 (32.0) mm                     | <b>SLSD1810</b> |
| 25 x 1.00 mm <sup>2</sup> | 21.0 (36.0) mm                     | <b>SLSD2510</b> |
| 8 x 1.50 mm <sup>2</sup>  | 15.0 (27.0) mm                     | <b>SLSD0815</b> |
| 12 x 1.50 mm <sup>2</sup> | 16.5 (31.5) mm                     | <b>SLSD1215</b> |
| 14 x 1.50 mm <sup>2</sup> | 17.6 (33.8) mm                     | <b>SLSD1415</b> |
| 20 x 1.50 mm <sup>2</sup> | 21.0 (36.0) mm                     | <b>SLSD2015</b> |
| 25 x 1.50 mm <sup>2</sup> | 23.1 (38.3) mm                     | <b>SLSD2515</b> |

– other models on request / subject to modification and errors –  
 price list under Reg. No. 12

**FIELDS OF APPLICATION:**

- tambour doors, hydraulic ramps, electrical tools, portable equipment, etc.
- *indoors and outdoors*

**Special hose line with modified polyurethane sheath**

- signal color orange
- type code printed on external sheath



**NOMINAL VOLTAGE:**

- WL 05 U<sub>o</sub>/U = 300/500 V
- WL 07 U<sub>o</sub>/U = 450/750 V

**OPERATING VOLTAGE:**

- WL 05 U<sub>o</sub>/U = 330/570 V
- WL 07 U<sub>o</sub>/U = 500/865 V

**TEMPERATURE RANGE:**

– flexible -30°C / +90°C  
 (conductor temperature)

**SPECIAL FEATURES:**

- custom-tailored to your needs starting at just 3 cables → no need to store large amounts of material
  - block lengths, extended lengths, and stretched ends can be adapted individually → optimized use during each application
  - extremely high restoring force thanks to state-of-the-art winding technology → long-term restorative effect
  - sheath withstands high mechanical loads and is notch ductile and abrasion-resistant → long service life, fewer production losses
  - resistant to grease, organic and inorganic oils → next to no “swelling” of the cable
- COST SAVINGS**

**SEVERAL EXAMPLES:** (with both ends straight, each 20 cm in length)

| Cross-Section           | Block Length | Extended Length | Order No.      |
|-------------------------|--------------|-----------------|----------------|
| 2 x 1.0 mm <sup>2</sup> | 80 cm        | 320 cm          | <b>WL08210</b> |
|                         | 120 cm       | 480 cm          | <b>WL12210</b> |
|                         | 260 cm       | 1040 cm         | <b>WL26210</b> |
| 2 x 1.5 mm <sup>2</sup> | 80 cm        | 320 cm          | <b>WL08215</b> |
|                         | 120 cm       | 480 cm          | <b>WL12215</b> |
|                         | 260 cm       | 1040 cm         | <b>WL26215</b> |
| 3 G 1.5 mm <sup>2</sup> | 80 cm        | 320 cm          | <b>WL08315</b> |
|                         | 120 cm       | 480 cm          | <b>WL12315</b> |
|                         | 260 cm       | 1040 cm         | <b>WL26315</b> |
| 5 G 1.0 mm <sup>2</sup> | 80 cm        | 320 cm          | <b>WL08510</b> |
|                         | 120 cm       | 480 cm          | <b>WL12510</b> |
|                         | 260 cm       | 1040 cm         | <b>WL26510</b> |
| 5 G 1.5 mm <sup>2</sup> | 80 cm        | 320 cm          | <b>WL08515</b> |
|                         | 120 cm       | 480 cm          | <b>WL12515</b> |
|                         | 260 cm       | 1040 cm         | <b>WL26515</b> |

– for further models, see price list Reg. No. 12 / also, other models on request –  
 – subject to modification and errors –

## ELSPRO Equipotential Bonding Cable

This equipotential bonding cable has been developed to ensure a safe connection under inclement conditions.

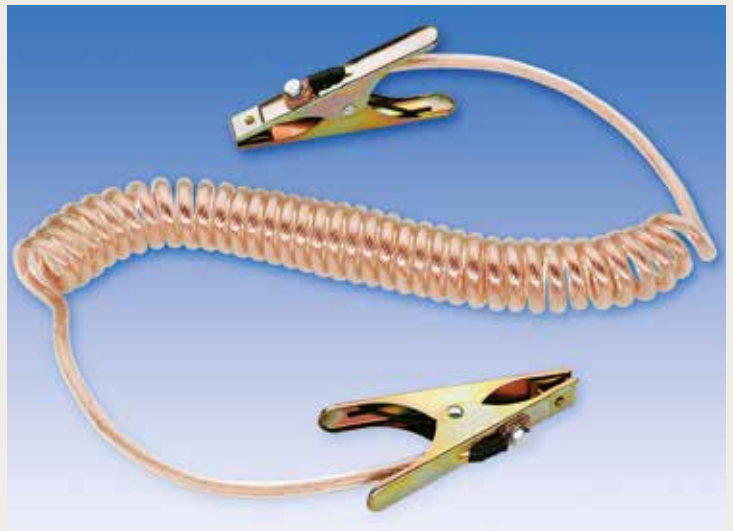
The equipotential bonding cables are available as customized models and also offered as models ready for self-customization.

### MODELS:

- ground clamp 200 A, with strong string
- cable lug for M8 screw

### TECHNICAL DATA:

- operating voltage: 1,000 V
- alternating current test voltage: 3,500 V
- cadmium- and CFC-free
- conductivity resistance as per DIN VDE 0295, IEC 60228



### Customized cables (other models available on request):

| Cross-Section           | Max. Extended Length* | Cable Configuration |                 | Order No.       |
|-------------------------|-----------------------|---------------------|-----------------|-----------------|
|                         |                       | Beginning           | End             |                 |
| 1 x 6.0 mm <sup>2</sup> | 4.0 m                 | earthing pliers     | earthing pliers | <b>WLP30EE6</b> |
|                         | 4.0 m                 | cable lug           | earthing pliers | <b>WLP30EK6</b> |
|                         | 4.0 m                 | cable lug           | cable lug       | <b>WLP30KK6</b> |
|                         | 5.0 m                 | earthing pliers     | earthing pliers | <b>WLP50EE6</b> |
|                         | 5.0 m                 | cable lug           | earthing pliers | <b>WLP50EK6</b> |
|                         | 5.0 m                 | cable lug           | cable lug       | <b>WLP50KK6</b> |

### Cables with straight ends for self-customization (other models available on request):

| Cross-Section            | Max. Extended Length* | Cable Configuration |       | Order No.       |
|--------------------------|-----------------------|---------------------|-------|-----------------|
|                          |                       | Beginning           | End   |                 |
| 1 x 6.0 mm <sup>2</sup>  | 4.0 m                 | _____               | _____ | <b>WLP30/6</b>  |
|                          | 5.0 m                 | _____               | _____ | <b>WLP50/6</b>  |
| 1 x 16.0 mm <sup>2</sup> | 4.0 m                 | _____               | _____ | <b>WLP30/16</b> |
|                          | 5.0 m                 | _____               | _____ | <b>WLP50/16</b> |
| 1 x 25.0 mm <sup>2</sup> | 3.0 m                 | _____               | _____ | <b>WLP30/25</b> |
|                          | 5.0 m                 | _____               | _____ | <b>WLP50/25</b> |

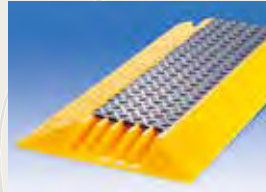
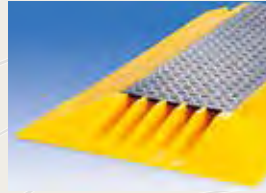
\* the predefined maximum length should not be exceeded

### SPECIAL FEATURES:

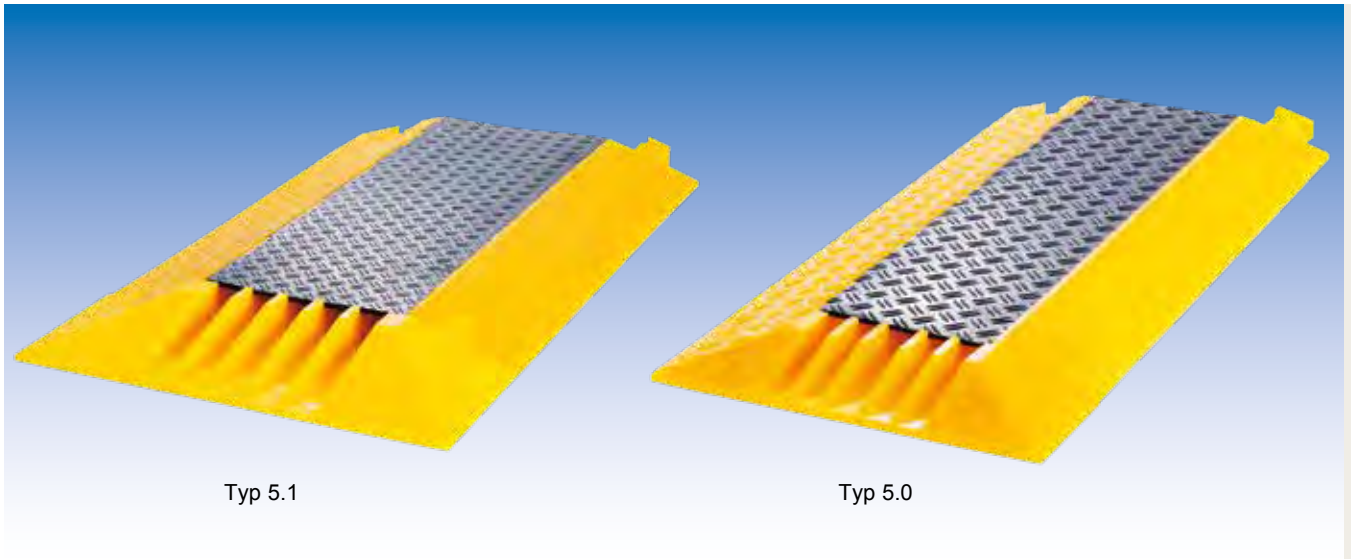
- strand structure: ultra-fine class 6 → considerably lower chance of conductor breakage
- transparent exterior sheath made of polyether polyurethane → unbreakable and impact-resistant, leading to a longer service life, COST SAVINGS
- resistant to oil and seawater; largely resistant to acid, lye, and solvents → next to no "swelling" of the cable
- halogen-free → no harmful halogens released (e.g., chlorine/hydrochloric acid)
- high restoring force → long-term restorative effect
- temperature range: -40°C to 80°C → broad temperature range for various application areas

– other models on request / subject to modification and errors –

# Cable and Hose Bridge Systems Lightning Protection Bridges Cable Covers



## Types 5.1 and 5.0



### ELSPRO cable bridge systems

lend order and safety to temporary cable routing situations. They provide optimal protection against outside damage at cable crossings and prevent accidents. Systems engineering refined down to the last detail has been proven through many years of practical experience.

#### SPECIAL FEATURES:

- easy assembly thanks to modular connection system
- easily extendible and upgradable
- can be extended endlessly
- good fit on uneven ground
- slip- and abrasion-resistant
- temperature- and weatherproof

#### Material:

- cast, modified polyurethane elastomer

#### Suitable for:

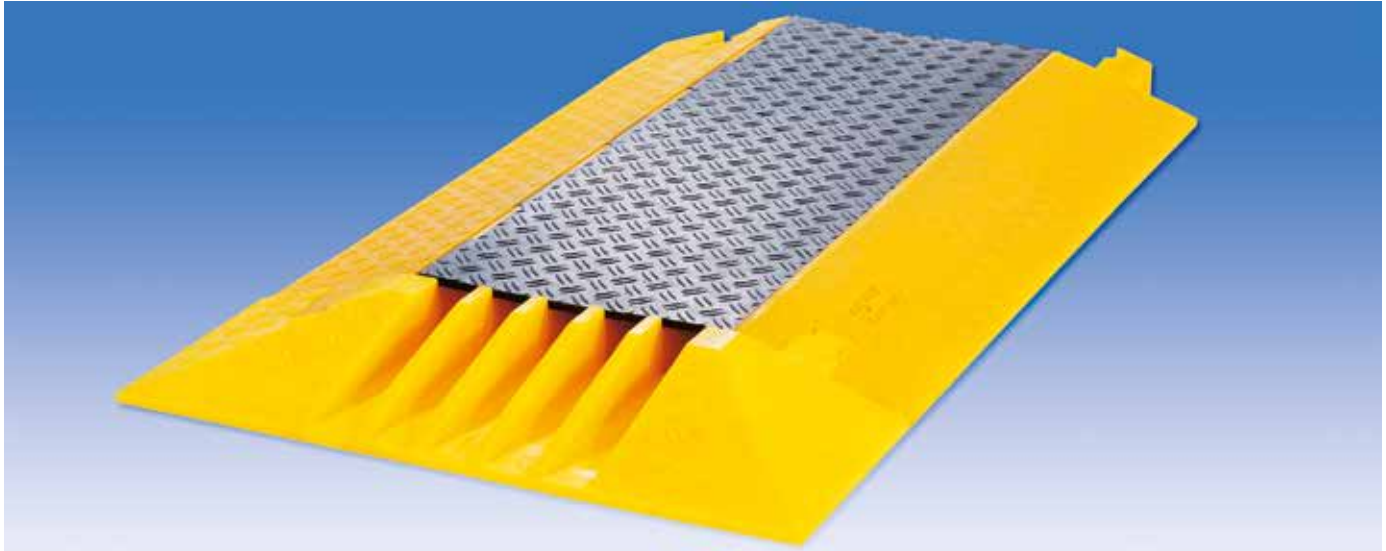
- electrical, gas, water, compressed-air, and hydraulic cables

#### Areas of Application:

- streets, construction sites, trade fairs
- airports, harbors, industrial sites
- amusement parks, traveling shows
- military, disaster relief
- film, television, radio
- sports fields or arenas

– other models on request / subject to modification and errors –

## Type 5.1



### “Canale Grande”

Featuring 5 cable channels for lines with an outside diameter of up to 50 mm, Type 5.1 has plenty of capacity for large-scale projects that need temporary energy supply at professional standards.

- diverse range of application areas
- especially quick and simple assembly
- Stolperfallen werden entschärft

### Technical Data:

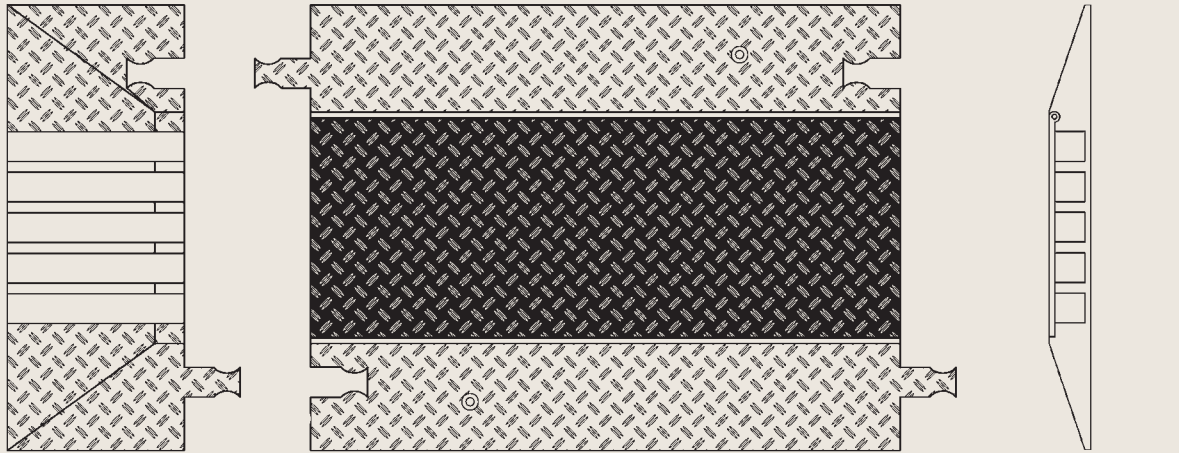
- 5 passage channels, 50 x 50 mm each
- material: hot-cast polyurethane, subsequently annealed, temperature-resistant up to 80°C
- non-slip surfaces with corrugated structure
- body color: traffic yellow; cover color: black
- surface resistance: 1012 ohm (109 antistatic)
- dielectric strength: 15 kV/mm

| Description                 | Dimensions (L x W x H) | Weight  | Gradient Angle | Order No.      |
|-----------------------------|------------------------|---------|----------------|----------------|
| Bridge piece 5.1            | 1000 x 750 x 70 mm     | 32.6 kg | ca. 15°        | <b>5.1</b>     |
| End piece 5.1               | 300 x 750 x 70 mm      | 7.0 kg  | ca. 15°        | <b>5.1 E</b>   |
| Bridge piece 5.1 antistatic | 1000 x 750 x 70 mm     | 32.6 kg | ca. 15°        | <b>5.1 X</b>   |
| End piece 5.1 antistatic    | 300 x 750 x 70 mm      | 7.0 kg  | ca. 15°        | <b>5.1 E X</b> |



– other models on request / subject to modification and errors –

# ELSPRO Cable Bridges for Temporary Mobile Energy Supply Type 5.1



Length: 300 mm  
Width: 750 mm  
Height: 70 mm  
Weight: 7.0 kg

Length: 1000 mm  
Width: 750 mm  
Height: 70 mm  
Weight: 32.6 kg

Channels:  
5x 50 x 50 mm

## Advantages ...

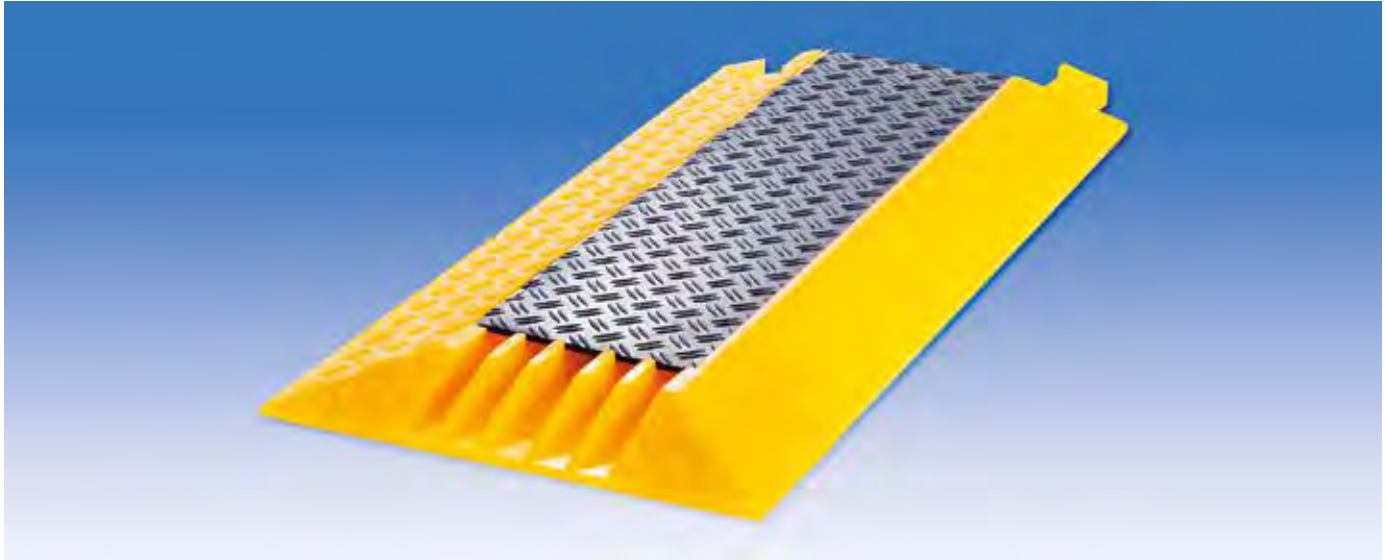
- hardness: 93° Shore A
- tensile strength: 45N/mm<sup>2</sup>/DIN 53504 and breaking strain of 600%/DIN 53504
- tear resistance: 80N/mm/DIN 53515
- impact resilience: 40–45%/DIN 53512
- abrasion loss: ca. 40 mm<sup>3</sup>/DIN 53516
- dielectric oils: e.g., for metal-manufacturing and metal-processing industries
- color: yellow-black
- practical size

## ... and Practical Benefits:

- load capacity of 30 tons if distributed evenly, that is, 60 kp/cm<sup>2</sup>
- next to no chance of the cable bridge breaking, even under enormous strain; high flexibility
- high mechanical load-bearing capacity, even after cut damage to the bridge
- very severe blows are absorbed by the material
- long service life, even when subjected to extreme mechanical strain
- after 10 days at +80°C no significant changes in mechanical qualities were apparent; no swelling of the material (text carried out on the BP-180 Dielectric model)
- hazard identification
- light and easy handling



## Type 5.0



### Order and Safety within Minutes

Thanks to relatively a low weight and convenient dimensions, the Type 5.0 cable bridges allow you to simply ensure mobile energy supply at professional standards within a very short time.

- diverse range of application areas
- very quick and simple assembly
- tripping hazards are mitigated

### Technical Data:

- 5 passage channels  
(4x 30 x 30 mm + 1x 40 x 30 mm)
- material: hot-cast polyurethane, subsequently annealed, temperature-resistant up to 80°C
- non-slip surfaces with corrugated structure
- body color: traffic yellow; cover color: black
- surface resistance: 1012 ohm (109 antistatic)
- dielectric strength: 15 kV/mm

| Description                 | Dimensions (L x W x H) | Weight  | Gradient Angle | Order No.      |
|-----------------------------|------------------------|---------|----------------|----------------|
| Bridge piece 5.0            | 900 x 510 x 50 mm      | 15.0 kg | ca. 15°        | <b>5.0</b>     |
| End piece 5.0               | 175 x 510 x 50 mm      | 2.6 kg  | ca. 15°        | <b>5.0 E</b>   |
| Bridge piece 5.0 antistatic | 900 x 510 x 50 mm      | 15.0 kg | ca. 15°        | <b>5.0 X</b>   |
| End piece 5.0 antistatic    | 175 x 510 x 50 mm      | 2.6 kg  | ca. 15°        | <b>5.0 E X</b> |

### Small on the outside, big on the inside

The 30 x 30 mm channels are for instance suitable for accommodating our INDUSTRIEFLEX®07 cables up to a size of 5 x 16 mm<sup>2</sup>.

**ELSPRO cable bridges** implement systems engineering to address a variety of application areas. It strives for simple assembly in a short amount of time, for example when securing cables laid across roads.

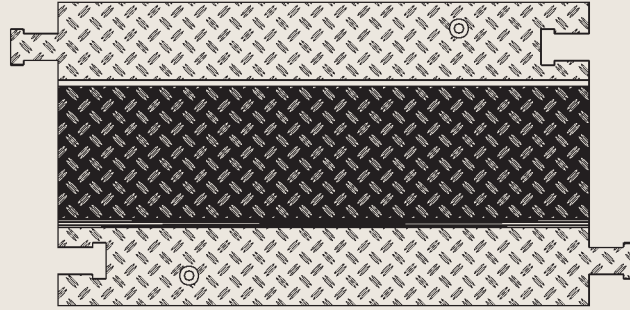


– other models on request / subject to modification and errors –

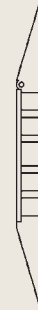
# ELSPRO Cable Bridges for Temporary Mobile Energy Supply Type 5.1



Length: 175 mm  
Width: 510 mm  
Height: 50 mm  
Weight: 2.6 kg



Length: 900 mm  
Width: 510 mm  
Height: 50 mm  
Weight: 15.0 kg



Channels:  
4x 30 x 30 mm  
1x 40 x 30 mm

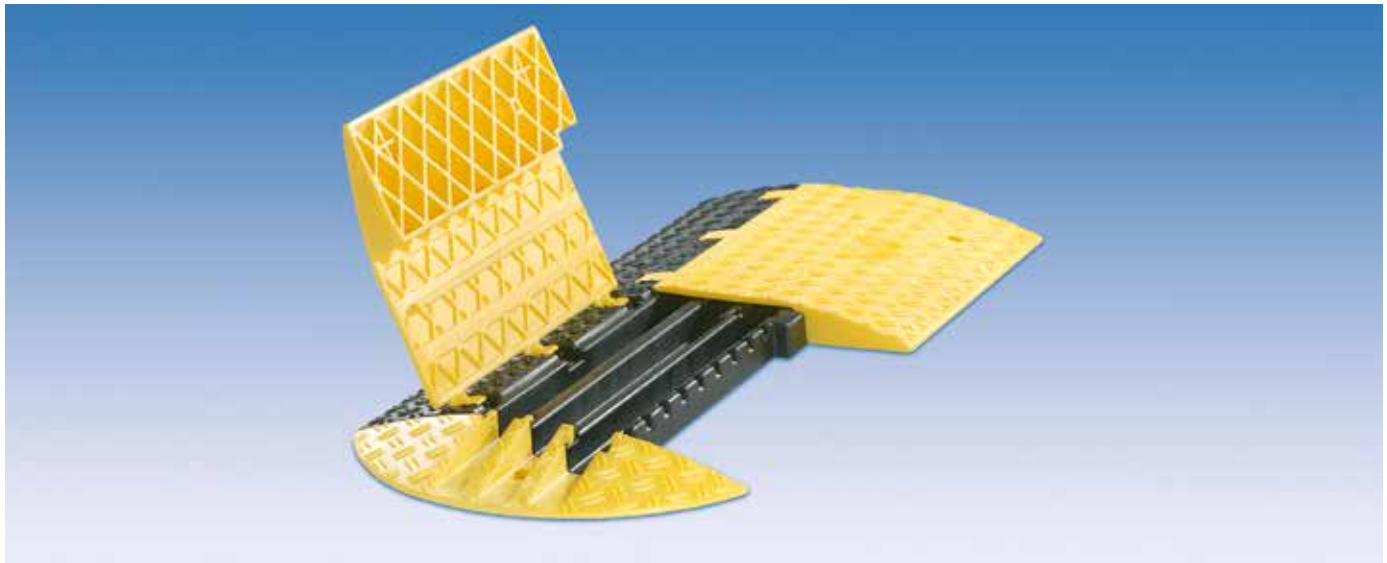
## Advantages ...

- hardness: 93° Shore A
- tensile strength: 45N/mm<sup>2</sup>/DIN 53504 and breaking strain of 600%/DIN 53504
- tear resistance: 80N/mm/DIN 53515
- impact resilience: 40–45%/DIN 53512
- abrasion loss: ca. 40 mm<sup>3</sup>/DIN 53516
- dielectric oils: e.g., for metal-manufacturing and metal-processing industries
- color: yellow-black
- practical size

## ... and Practical Benefits:

- load capacity of 30 tons if distributed evenly, that is, 60 kp/cm<sup>3</sup>
- next to no chance of the cable bridge breaking, even under enormous strain; high flexibility
- high mechanical load-bearing capacity, even after cut damage to the bridge
- very severe blows are absorbed by the material
- long service life, even when subjected to extreme mechanical strain
- after 10 days at +80°C no significant changes in mechanical qualities were apparent; no swelling of the material (text carried out on the BP-180 Dielectric model)
- hazard identification
- light and easy handling

## Type KB3X35



### Lightweight - Take the Next One ...

The KB3X35 is an ultra-light premium product made by ELSPRO, featuring an innovative folding mechanism\*. Two through holes for fixation guarantee additional opportunities for anchoring the cable bridge. By affixing the yellow ramp cover with the ground below using screws, it is possible to securely close the cable bridge system.

### Technical Data:

- load capacity of 9 tons if distributed evenly
- 3 passage channels, each 35 mm in diameter
- material: injection-molded polypropylene
- temperature-resistant from -40° C to +60° C
- non-slip surface with corrugated structure
- color: hazard identification black-yellow;  
end piece: yellow

| Description         | Model      | Surface resistance    | Dimensions (L x W x H) | Weight  | Gradient Angle | Order No.       |
|---------------------|------------|-----------------------|------------------------|---------|----------------|-----------------|
| Bridge piece KB3X35 |            |                       | 500 x 500 x 55 mm      | 4,00 kg | ca. 20°        | <b>KB3X35</b>   |
| End piece KB3X35    |            |                       | 160 x 500 x 55 mm      | 0,85 kg |                | <b>KB3X35E</b>  |
| Bridge piece KB3X35 | antistatic | < 10 <sup>9</sup> Ohm | 500 x 500 x 55 mm      | 4,00 kg |                | <b>KB3X35X</b>  |
| End piece KB3X35    | antistatic | < 10 <sup>9</sup> Ohm | 160 x 500 x 55 mm      | 0,85 kg |                | <b>KB3X35EX</b> |

The ELSPRO cable bridge system **KB3X35** is designed for diverse fields of use. The system is easy to assemble in a short period of time, which makes it especially suitable for the protective laying of cables, for instance at street festivals, weekly markets, or music and sports events. Monitored crossing by heavy trucks is permitted.

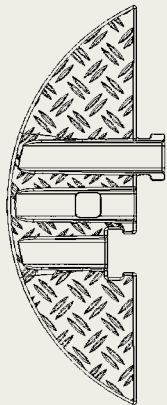
- diverse range of application areas
- very quick and simple assembly
- tripping hazards are mitigated

\*German patent  
no. 102007018590.3

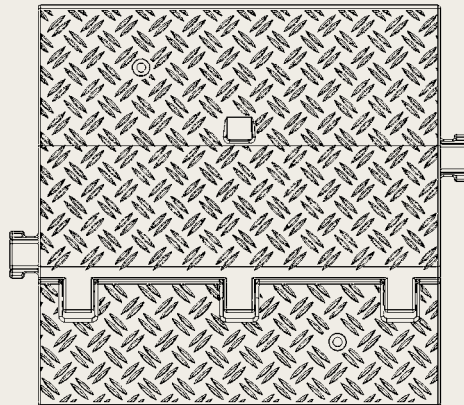


– other models on request / subject to modification and errors –

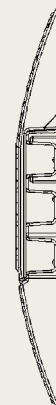
## Type KB3X35



Length: 160 mm  
 Width: 500 mm  
 Height: 55 mm  
 Weight: 0.85 kg



Length: 500 mm  
 Width: 500 mm  
 Height: 55 mm  
 Weight: 4.00 kg



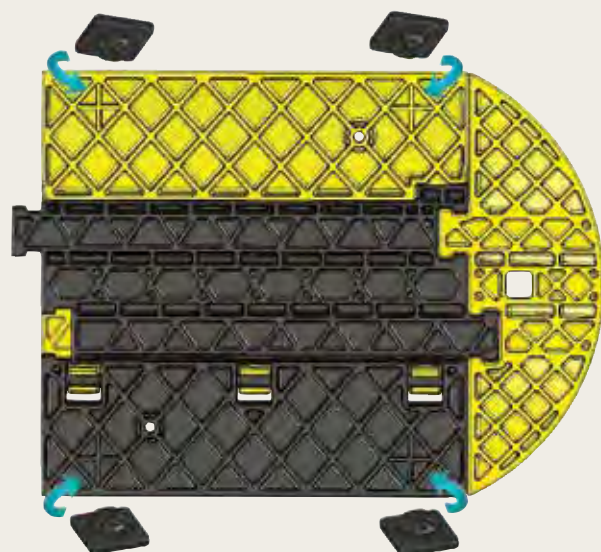
Channels:  
 3x 35 x 35 mm

### FEATURES AND QUALITIES:

- load capacity of 9 tons if distributed evenly
- next to no chance of the cable bridge breaking, even under significant strain; high flexibility
- severe blows are absorbed by the material
- long service life, even when subjected to mechanical strain
- hazard identification yellow-black
- light and easy handling thanks to practical size and very lightweight design

### Special Models on Request:

- imprinting of company name/logo
- different color combinations



### Accessories:

Stopper Set (4 pieces)

Order No.

**KB3X35S**

The underside of each bridge section has been prepared for the addition of four diamond-shaped stoppers made of non-slip elastomer. They improve the resting qualities of smooth surfaces.

## Type BB1X20



### Minimal Effort – Large Impact ...

The BB1X20 represents innovation in the field of lightning protection.

### Challenge:

Most buildings with flat roofs have lightning protection systems that are installed at an interval to the roof using special fastening technology. These lightning protection systems are frequently subject to damage because escape paths and operational routes lead across the roof. Damaged lightning conductors are functionally impaired, with repairs or potential damage usually proving to be costly.

**ELSPRO Solution:** ELSPRO lightning protection alleviates tripping hazards on flat roofs.

- no maintenance costs
- escape paths and operational routes are defined and clearly marked as such

### Technical Data

- 1 passage channel, 20 mm in diameter
- material: special polyurethane OLAPRENE
  - high resistance to hydrolysis and microbes
  - strong ozone- and UV-resistance
  - specially designed for low-temperature applications
  - highest possible dynamic load-bearing capacity
  - elaborate annealing method (see description on reverse side)
- temperature-resistant from -35° C to +80° C
- non-slip surface with corrugated structure
- color: danger identification yellow

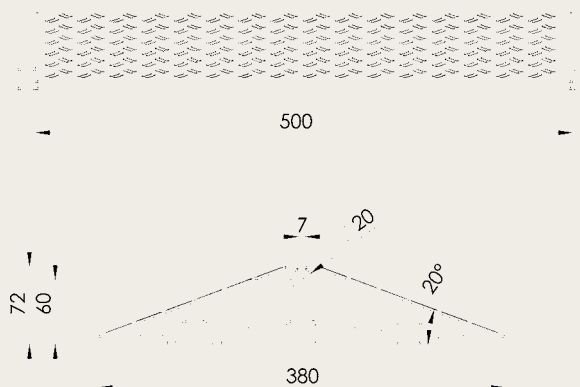
| Description  | Dimensions (L x W x H) | Weight  | Gradient Angle | Order No.     |
|--------------|------------------------|---------|----------------|---------------|
| Bridge piece | 500 x 380 x 72 mm      | 6.40 kg | ca. 20°        | <b>BB1X20</b> |



– subject to modification and errors –

# ELSPRO Lighting Protection Bridge for Securing Lightening Rods on Flat Roofs

## Type BB1X20



Length: 500 mm  
Width: 380 mm  
Height: 72 mm  
Weight: 6.40 kg

Channels:  
1 x  $\varnothing$  20 mm

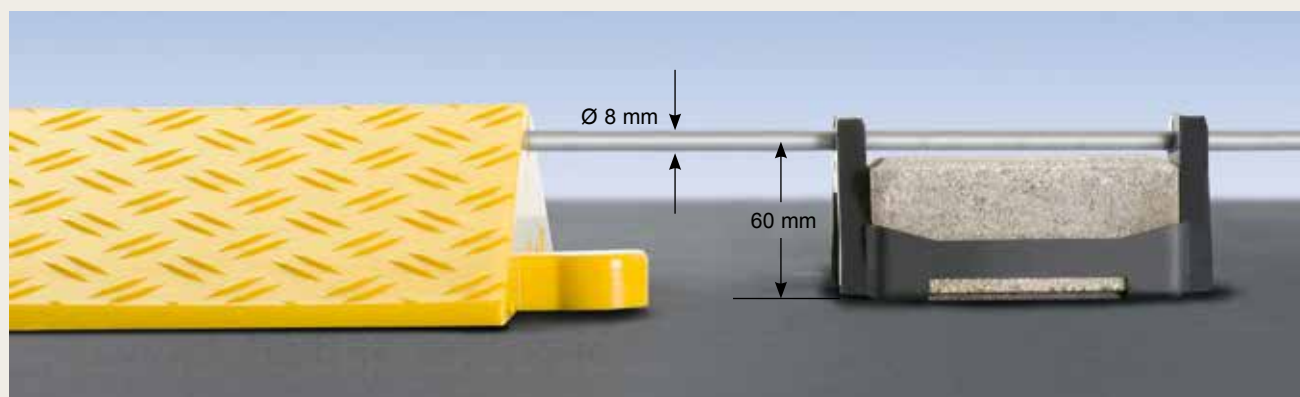
### FEATURES AND QUALITIES:

- expected service life of  $\geq$  12 years without any loss of quality
- high UV resistance
- high temperature resistance
- accommodates high water load
- hazard identification yellow
- light and easy handling thanks to practical size
- compatible with standard lightening protections systems (8-10 mm round wire)
- patent pending

### Production Methods:

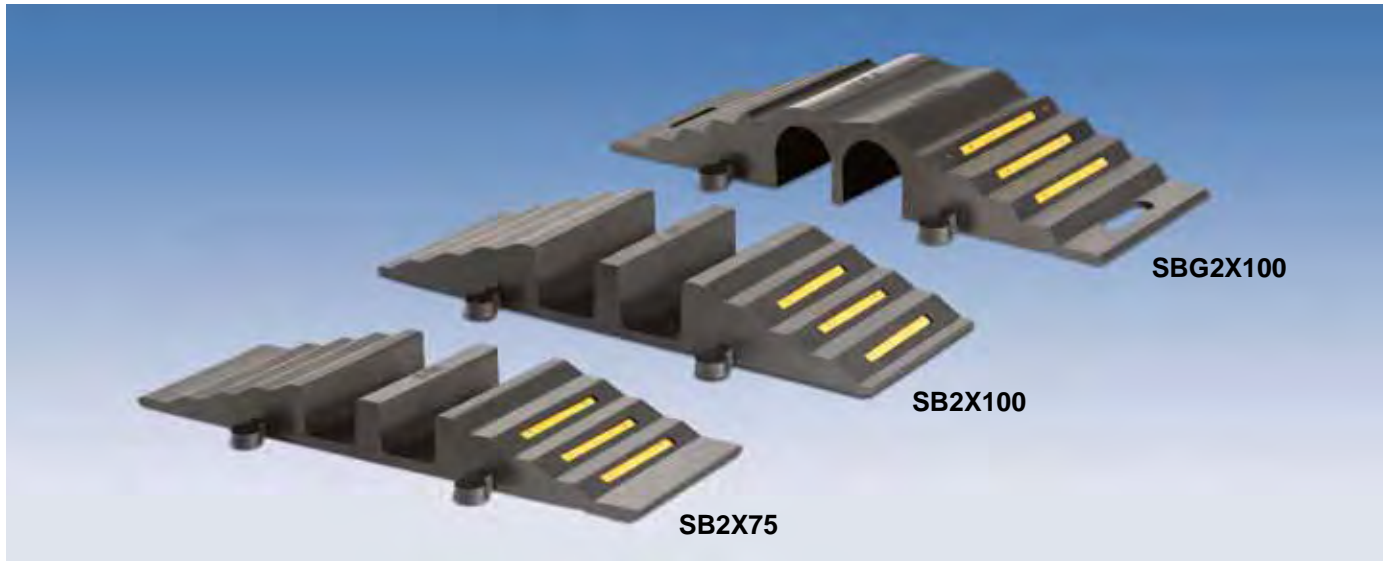
1. the liquid components are placed under vacuum (no air pockets) at 95°C to facilitate a reaction
2. the prepared liquid raw material is pour into aluminum forms
3. the form sections are then annealed in special tempering ovens for at least 16 hours at 100°C
4. the annealing process induces a process of artificial ageing in order to achieve the desired physical properties

In the case of existing systems with 8 mm of round conductor wire, the bridge is slid under the conductor and the round wire is lowered into the recess with minimal pressure. That's all! Any unintentional or independent loosening of the round conductor is not possible due to the slightly narrowed opening!



– subject to modification and errors –

## Types SB und SBG



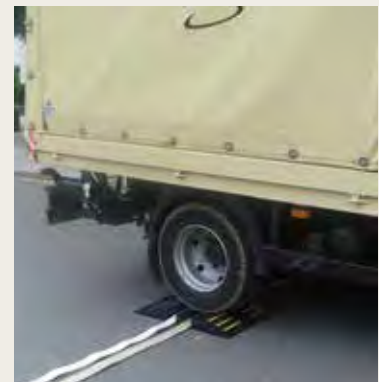
### Bring On the Water!

The ELSPRO hose bridge series guarantees the professional laying of hoses for mobile water supply and sewage disposal. The connecting pieces, which are screwed from one side, ensure strong cohesion and facilitate further extensions. The solid rubber material allows for a very good fit on uneven ground and thus promotes high non-slip qualities. Yellow warning strips on the sides serve to heighten visibility. The hose bridge type SBG2X100 is mainly suitable for light traffic and for keeping pedestrians safe, which is why this bridge model is additionally equipped with reflectors for even better visibility.

### Technical Data

- 2 passage channels for hoses with a max. diameter of 75/100/100 mm each
- load capacity if distributed evenly:
  - SB2X75 max. 44 t
  - SB2X100 max. 44 t
  - SBG2X100 max. 5 t
- material: solid rubber
- temperature-resistant from -16° C to +50° C
- color: black with lateral yellow warning stripes
- SBG2X100 additionally features reflectors

| Description           | Dimensions (L x W x H)* | Max. Hose Diameter | Weight  | Gradient Angle | Order No.       |
|-----------------------|-------------------------|--------------------|---------|----------------|-----------------|
| Bridge piece SB2X75   | 855 x 302 x 84 mm       | 75 mm              | 13.0 kg | ca. 12°        | <b>SB2X75</b>   |
| Bridge piece SB2X100  | 830 x 320 x 102 mm      | 100 mm             | 16.0 kg | ca. 19°        | <b>SB2X100</b>  |
| Bridge piece SBG2X100 | 850 x 300 x 125 mm      | 100 mm             | 20.0 kg | ca. 16°        | <b>SBG2X100</b> |



\* All measurements are reference values and may deviate slightly.

- other models on request / subject to modification and errors -

# Electrical Welding Products

– Plugs, Connectors,  
Pliers, Cables,  
Accessories





# ELSPRO Welding Products

## Electrode Holder Pliers

| Fig. | Welding Current/ED  | Cable connection        | Order No.     |
|------|---------------------|-------------------------|---------------|
| 1.   | 300 A/35% 250 A/60% | max. 50 mm <sup>2</sup> | <b>9ZE300</b> |
| 2.   | 400 A/35% 300 A/60% | max. 70 mm <sup>2</sup> | <b>9ZE400</b> |
| 3.   | 600 A/35% 350 A/60% | max. 95 mm <sup>2</sup> | <b>9ZE600</b> |

– other electrode holder pliers on request –

## Welding Set

Electrode holder with **super-flexible** welding cable and plug

| Fig. | Length | Cross-Section      | Sheath Color | Order No.      |
|------|--------|--------------------|--------------|----------------|
| 1.   | 3 m    | 25 mm <sup>2</sup> | schwarz      | <b>SET2503</b> |
|      | 5 m    | 25 mm <sup>2</sup> |              | <b>SET2505</b> |
| 2.   | 3 m    | 35 mm <sup>2</sup> | orange       | <b>SET3503</b> |
|      | 5 m    | 35 mm <sup>2</sup> |              | <b>SET3505</b> |
| 3.   | 3 m    | 50 mm <sup>2</sup> | rot          | <b>SET5003</b> |
|      | 5 m    | 50 mm <sup>2</sup> |              | <b>SET5005</b> |

– other cable lengths and types on request –

## Welding Cable Connectors EN 60974.12-IEC 974.12

- insulated solid rubber plug components with latch cone contact
- with clamping collet and clamping screw

|                       |              |
|-----------------------|--------------|
| 16-25 mm <sup>2</sup> | <b>9K025</b> |
| 35-50 mm <sup>2</sup> | <b>9K050</b> |
| 70-95 mm <sup>2</sup> | <b>9K095</b> |
| 120 mm <sup>2</sup>   | <b>9K120</b> |

## Welding Cable Plugs EN 60974.12-IEC 974.12

- insulated solid rubber plug components with latch cone contact
- with clamping collet and clamping screw

|                       |              |
|-----------------------|--------------|
| 16-25 mm <sup>2</sup> | <b>9S025</b> |
| 35-50 mm <sup>2</sup> | <b>9S050</b> |
| 70-95 mm <sup>2</sup> | <b>9S095</b> |
| 120 mm <sup>2</sup>   | <b>9S120</b> |

## Built-In Welding Jacks

|                       |              |
|-----------------------|--------------|
| 10-25 mm <sup>2</sup> | <b>EB025</b> |
| 35-70 mm <sup>2</sup> | <b>EB050</b> |
| 70-95 mm <sup>2</sup> | <b>EB095</b> |
| 120 mm <sup>2</sup>   | <b>EB120</b> |

## Built-In Welding Plugs

|                       |              |
|-----------------------|--------------|
| 10-25 mm <sup>2</sup> | <b>ES025</b> |
| 35-70 mm <sup>2</sup> | <b>ES050</b> |
| 70-95 mm <sup>2</sup> | <b>ES095</b> |
| 120 mm <sup>2</sup>   | <b>ES120</b> |



# ELSPRO Welding Products

## Earthing Clamps:

| Fig.   | Welding Current | Order No.    |
|--------|-----------------|--------------|
| ALFA 1 | 500 A           | <b>EKA01</b> |
| ALFA 2 | 600 A           | <b>EKA02</b> |



## Earthing Clamps:

| Fig.   | Welding Current | Order No.    |
|--------|-----------------|--------------|
| BETA 1 | 200 A           | <b>EKB01</b> |
| BETA 2 | 500 A           | <b>EKB02</b> |



## Earthing Clamps:

| Fig.    | Welding Current | Order No.    |
|---------|-----------------|--------------|
| GAMMA 1 | 150 A           | <b>EKG01</b> |
| GAMMA 2 | 200 A           | <b>EKG02</b> |
| GAMMA 3 | 400 A           | <b>EKG03</b> |



## Pol-Welding Screw Clamps:

| Fig.    | Welding Current | Order No.    |
|---------|-----------------|--------------|
| DELTA 1 | 600 A           | <b>EKD01</b> |
| DELTA 2 | 400 A           | <b>EKD02</b> |



## Battery Clamps

| Model               | Welding Current | Order No.    |
|---------------------|-----------------|--------------|
| schwarz gerade      | 600 A           | <b>BK01</b>  |
| rot gerade          | 600 A           | <b>BK02</b>  |
| schwarz abgewinkelt | 600 A           | <b>BK01W</b> |
| rot abgewinkelt     | 600 A           | <b>BK02W</b> |



\* customized earthing clamps, pol-welding screw clamps,  
and battery clamps according to customer specifications \*  
– other items on request / subject to modification and errors –