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| 44420262 | DATA SHEET |  |
| Valid from: 14.01.2019 | EPIC® POWERLOCK F6 S | |

Description

- Single-pin circular connector for mobile power distribution, electro motors and generators
- Resistant to mechanical influences in harsh environmental conditions
- Connectors in harmonised colours according to European standards
- Every colour has a different coding to prevent incorrect plugging



General Characteristics

| | |
|-------------------------------|---|
| Series | F6 S |
| Version | coupling connector, drain for screw contact |
| Rated voltage (V) | 1000 V |
| Rated impulse voltage | 8 kV |
| Rated current (A) | max. crimp 400 A |
| Contacts | Screw termination: silver-plated brass |
| Number of contacts | 1 |
| Termination methods | Screw termination: 50 - 120 mm ² |
| Protection | IP 67 (maximum, dependant on cable gland used) IP 20 (unmated) |
| Cycle of mechanical operation | 500 |
| Temperature range | -25°C to +125°C |
| Degree of soiling | 3 |

Product Variations

| Article- Number | Article | M | Pin configuration |
|--|--------------------|----|-------------------|
| Type POWERLOCK F6, coupling connector, drain for screw contact | | | |
| 44420262 | POWERLOCK F6 PE/GN | 40 | PE, Green |
| 44420263 | POWERLOCK F6 N/BL | 40 | N, Blue |
| 44420264 | POWERLOCK F6 L1/BN | 40 | L1, Brown |
| 44420265 | POWERLOCK F6 L2/BK | 40 | L2, Black |
| 44420266 | POWERLOCK F6 L3/GY | 40 | L3, Grey |
| L1/red for direct current applications in conjunction with L2/black | | | |
| 44420301 | POWERLOCK F6 L1/RD | 40 | L1, Red |

Materials and Surfaces

| | |
|-----------------------|-----|
| Housing | PBT |
| Contact retention pin | PA |

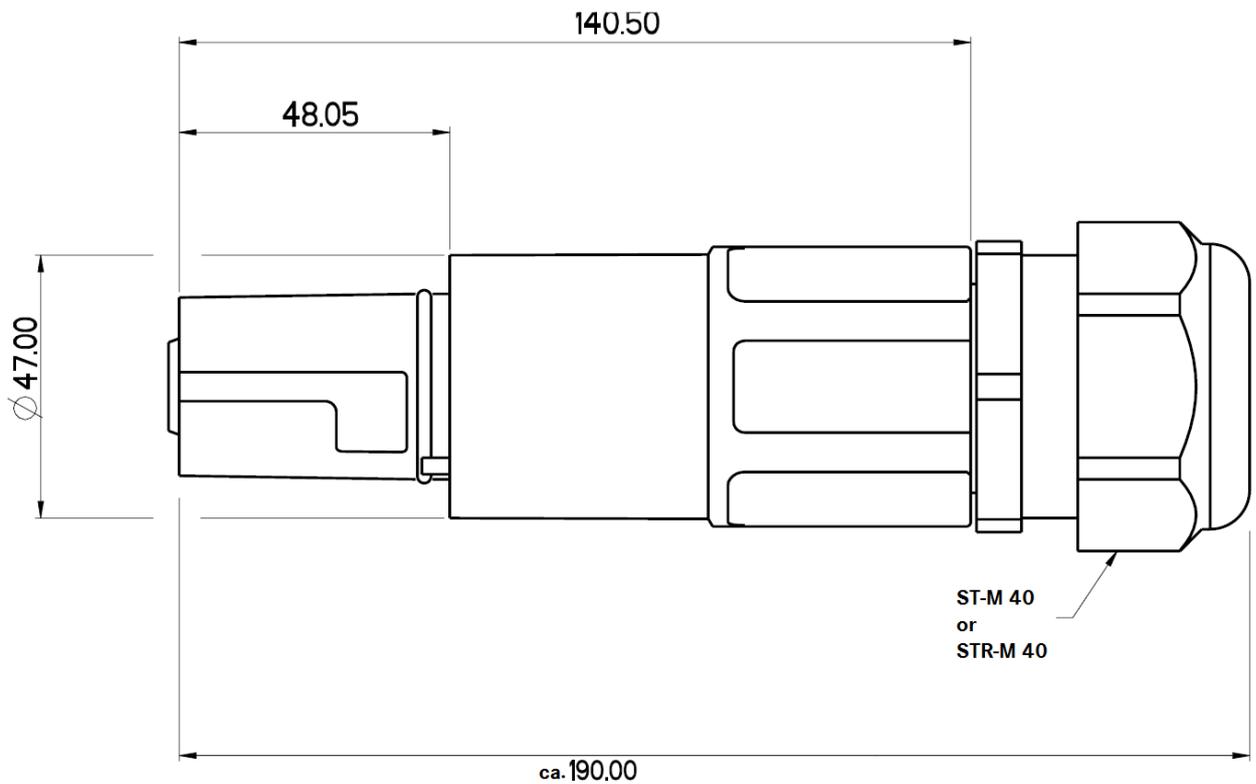
Approvals

| | |
|----------------------------|------|
| VDE-Approval, VDE-REG.-No. | D042 |
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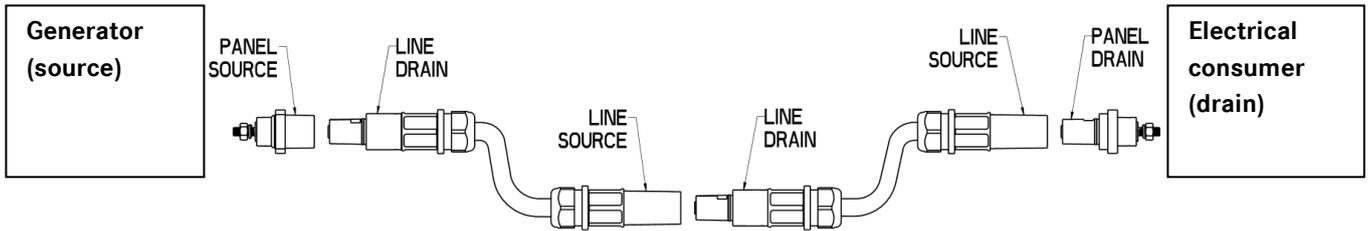
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Technical Drawings



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System description



| | Line connector | Panel mount connector | Crimp contact | Screw contact |
|--------|---|---|--|---|
| Source |  |  |  |  |
| Drain |  |  |  |  |

Step 1) Selection of housings:

Step 2) Selection of SKINTOP® cable gland M40 for the housing (only cable connectors):

e.g. 3111250 (black), 53111450 (light grey), 53111050 (silver grey)

Step 3) Decision: 400 A / max. 120mm² → Screw contacts

660 A / max. 240mm² → Crimp contacts

! Screw and crimp contacts are not allowed to be mixed!

Step 4) Selection of contacts:

Screw contacts with reduction sleeve (with 120mm² not necessary)

| | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² |
|--------|------------------------|------------------------|------------------------|---------------------|
| Source | 44420237 & 44420247 | 44420237 & 44420246 | 44420237 & 44420245 | 44420237 |
| Drain | 44420232 & 44420247 | 44420232 & 44420246 | 44420232 & 44420245 | 44420232 |

Contacts with M12 thread (for cable lug Ø12 mm)

| | M12-thread 660 A | M12-thread 400 A |
|--------|---|--|
| Source |  44420261 |  44420242 |
| Drain |  44420260 |  44420241 |

Tightening torque M12 nut: 27,5 Nm - 31,4 Nm

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Approved



Robust



Reliability



Waterproof

Info

Connector for unscreened single-core power cables

Application range

For renewable energy plants e.g. wind power

For mobile and stationary power distribution

For the connection of motors, transformers and generators

Light & sound technology

Product features

Straight connector with M40 thread

Order SKINTOP® ST-M 40 or STR-M 40 separately

Contact fixing by contact retention pin, each pin can only be used once

Housing without contact, order contact separately

Remark

Photographs are not to scale and do not represent detailed images of the respective products.

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