44420272

DATA SHEET

EPIC® POWERLOCK A1 S

& LAPP

Valid from: 14.01.2019

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 A1 S

Version panel-mount box, drain for contact with M12 threaded post

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 mm²

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

Protection

Article- Number	Article	Fastening type	Pin configuration		
Type POWERLOCK A1, panel-mount box, drain for contact with M12 threaded post					
44420272	POWERLOCK A1 PE/GN	Ø5,5mm (4x)	PE, Green		
44420273	POWERLOCK A1 N/BL	Ø5,5mm (4x)	N, Blue		
44420274	POWERLOCK A1 L1/BN	Ø5,5mm (4x)	L1, Brown		
44420275	POWERLOCK A1 L2/BK	Ø5,5mm (4x)	L2, Black		
44420276	POWERLOCK A1 L3/GY	Ø5,5mm (4x)	L3, Grey		
L1/red for direct current applications in conjunction with L2/black					
44420320	POWERLOCK A1 L1/RD	Ø5,5mm (4x)	L1, Red		

Materials and Surfaces

Housing PBT Contact retention pin PA

Approvals

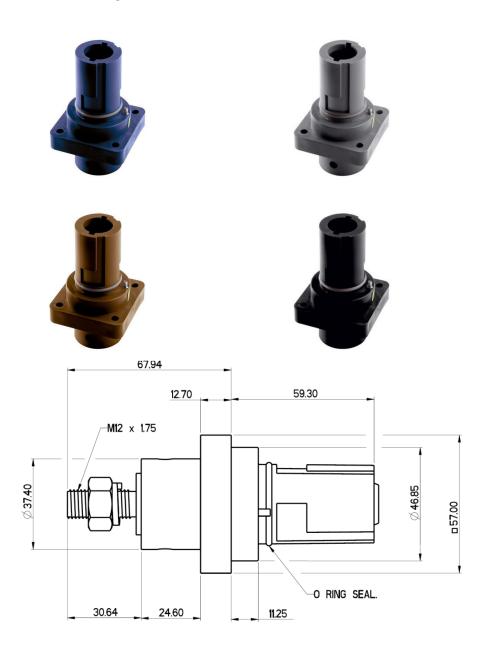
VDE-Approval, VDE-REG.-No. D042

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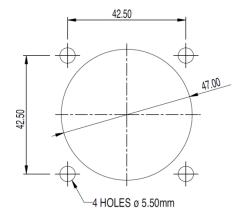
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Technical Drawings



Panel cutout



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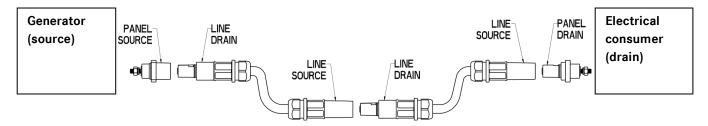
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System description



	Line connector	Panel mount connector	Crimp contact	Screw contact
Source	D6	A6		660
Drain	F6	A1		

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 \rightarrow 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 mm²	95 mm²	120 mm²
Source	44420237 &	44420237 &	44420237 &	44420237
	44420247	44420246	44420245	
Drain	44420232 &	44420232 &	44420232 &	44420232
	44420247	44420246	44420245	

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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Robust



Reliability



Waterproof

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

Panel-mount base, straight entry 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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