

EPIC® SOLAR 4 GEN2 F 4-6 5.2-7.0mm
Article No.: 44428278

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Details

Benefits

- Extremely weatherproof and durable thanks to the high-quality materials and solid construction.
- Compatible with other systems on the market.
- Ideal for fully automated plug connector assembly.
- Self-retaining cap nut and contacting with haptic feedback simplify assembly and provide protection from tampering.
- Double snap-in hooks secure the crimp contact to the connector.
- Low contact resistance at the contact point between plug and socket for efficient power supply.
- Suitable for conductor cross-sections up to 10 mm² for overcoming long cable distances.
- With the TÜV SÜD testing mark.

- Articles available in different packaging units.

Application

- For the cabling of solar modules, inverters and stand-alone systems.
- For modern, high-performance photovoltaic systems up to 1500 V.
- For use with EPIC® SOLAR 4 GEN2 M mating connectors (pin insert).
- Can be used with many ÖLFLEX® solar cables.
- Plugged connections have protection class IP 68 (1 m for 1 h).

Notes

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

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

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Remarks

Technical Data

General information

Brand	EPIC®
Product type	Solar connector socket
Scope of delivery	including crimp contacts
Contacts included	Yes
Delivery Unit	100
Industry segment	Solar

Electrical parameters

Rated surge voltage	16 kV DC according to IEC 61984
Rated voltage	1500 V DC according to IEC
Rated current	50 A according to IEC

Product design

Contact variant	Socket
Connector housing design	Straight
Connector type	Socket
Min. cable clamping range	0.205 in
Cable clamping range max.	0.276 in
Contact connection type	Crimp termination
Connectable conductor cross section min. (AWG)	12 AWG
Max. connectable conductor cross-section AWG	10 AWG
Min. connectable conductor cross-section (mm ²) (in ²)	4 mm ²
Max. connectable conductor cross-section (mm ²) (in ²)	6 mm ²
Housing main material	Polycarbonate
Housing base material, short form	PC
Material contact	Copper alloy
Contact material, short form	Cu
Contact coating material	Tin-plated
Contact coating material, short form	Sn
Colour description	black

Product features

IP protection rating mounted	IP 68 - 1m (1h)
Operating temperature max.	-40 °C
Operation temperature max.	85 °C
Flame-retardant	No
UV-resistant	Yes
Halogenfree	Yes

Certifications and standards

CE marking	Yes
UR recognized	No

CSA certified	No
VDE certified	No
TÜV certified	Yes
appliance class according to IEC 61140	II

EPIC® SOLAR 4 GEN2 F

Article No.	Name	Contacts included	Delivery Unit	Min. connectable conductor cross-section (mm ²) (in ²)	Max. connectable conductor cross-section (mm ²) (in ²)	Connectable conductor cross section min. (AWG)	Max. connectable conductor cross-section AWG	Min. cable clamping range	Cable clamping range max.	IP protection rating mounted	Connector housing design
381166462	EPIC® SOLAR 4 GEN2 F 5.2-7.0 mm	No	700					0.205 in	0.276 in	IP 68 - 1m (1h)	Straight
381166811	EPIC® SOLAR 4 GEN2 F 4-6 5.2-7.0mm	Yes	10	4 mm ²	6 mm ²	12 AWG	10 AWG	0.205 in	0.276 in	IP 68 - 1m (1h)	Straight
44428269	EPIC® SOLAR 4 GEN2 F 10mm ²	Yes	100	10 mm ²	10 mm ²			0.276 in	0.291 in	IP 68 - 1m (1h)	Straight
44428271	EPIC® SOLAR 4 GEN2 F 5.2-7.0 mm	No	100					0.205 in	0.276 in	IP 68 - 1m (1h)	Straight
44428278	EPIC® SOLAR 4 GEN2 F 4-6 5.2-7.0mm	Yes	100	4 mm ²	6 mm ²	12 AWG	10 AWG	0.205 in	0.276 in	IP 68 - 1m (1h)	Straight

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