

PV-C3F/M-S-2,5-6 PU1 - Photovoltaic connector



1386390

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Photovoltaic connector, Range of articles: SUNCLIX, color: black, number of positions: 1, min. conductor cross-section: 2.5 mm², max. conductor cross-section: 6 mm², rated voltage: 1100 V DC, rated current: 20 A, Connection method: Spring-cage, min. cable diameter: 5.5 mm, max. cable diameter: 8 mm, Set consisting of the items: 1x 1386381 and 1x 1386384

Your advantages

- Convenient, secure spring connection technology
- High yield, thanks to silver-plated contacts
- Convenient release without a special tool
- One-piece DC connector

Commercial data

Item number	1386390
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB02
Product key	ABLBBS
GTIN	4063151762230
Weight per piece (including packing)	33.5 g
Weight per piece (excluding packing)	31.778 g
Customs tariff number	85359000
Country of origin	DE

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Technical data

Notes

Order information:	Set consisting of the items: 1x 1386381 and 1x 1386384
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Product properties

Product type	Connector set
Product family	SUNCLIX
Number of positions	1

Insulation characteristics

Protection class	II
Degree of pollution	2

Electrical properties

Rated voltage (II/2)	1000 V
Rated voltage (III/2)	1100 V
Rated voltage	1100 V DC (III/2.00) in accordance with IEC 62852:2014/AMD1:2020
Rated surge voltage	12.8 kV
Rated surge voltage (II/2)	12 kV
Rated surge voltage (III/2)	12 kV
Rated surge voltage (III/3)	12.8 kV
Rated current (2.5 mm ²)	20 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (4.0 mm ²)	30 A (in accordance with IEC 62852:2014/AMD1:2020)
Rated current (6.0 mm ²)	35 A (in accordance with IEC 62852:2014/AMD1:2020)
Contact resistance	0.45 mΩ
Contact resistance	≤ 0.45 mΩ (when plugged in (without cable))

Connection data

Connection method	Spring-cage
Tightening torque	2 Nm ±0.1 Nm

Material specifications

Color	black
Color of the housing part	black
Material Housing	PPE
Material Seal	EPDM
Material Cable gland	PPE
Material Contact	Cu
Flammability rating according to UL 94	V0
Insulating material group	I / CTI 600
Contact surface	Silver Ag
Contact surface material	Ni/Ag

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O-ring material	Silopren
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Cable/line

Cable type	in accordance with IEC 62930
External cable diameter	5.5 mm ... 8 mm
External cable diameter	5.5 mm ... 8 mm
Single wire, cross section	2.5 mm ² 6 mm ²
Cable pull-out force	> 330 N

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	100
Insertion force	45 N ±10 N
Withdrawal force	250 N (when locked)

Environmental and real-life conditions

Ambient conditions

Degree of protection (when plugged in)	IP66/IP68 (2 m / 24 h)
Degree of protection (not plugged in)	IP20
Degree of protection	IP66/IP68 (2 m / 24 h)
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

Standards and regulations

Standards/specifications	IEC 62852:2014/AMD1:2020
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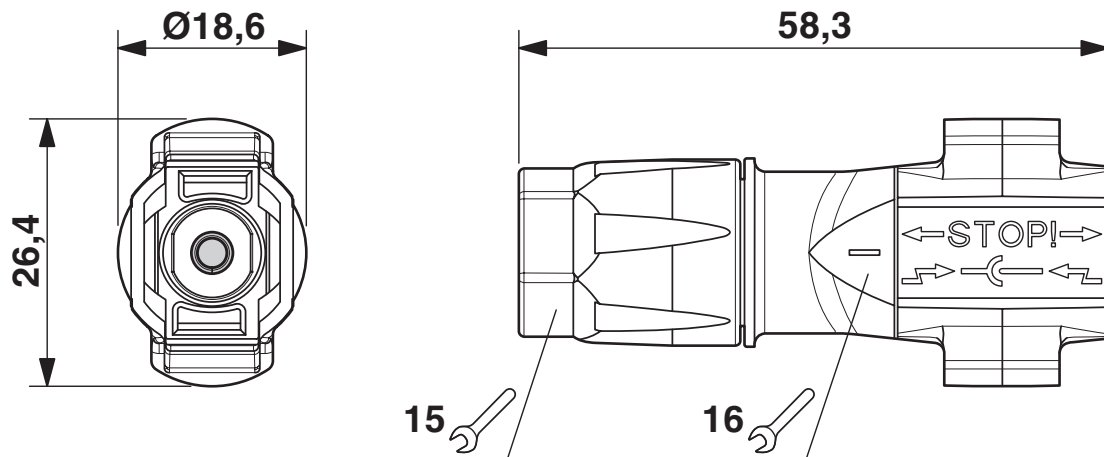


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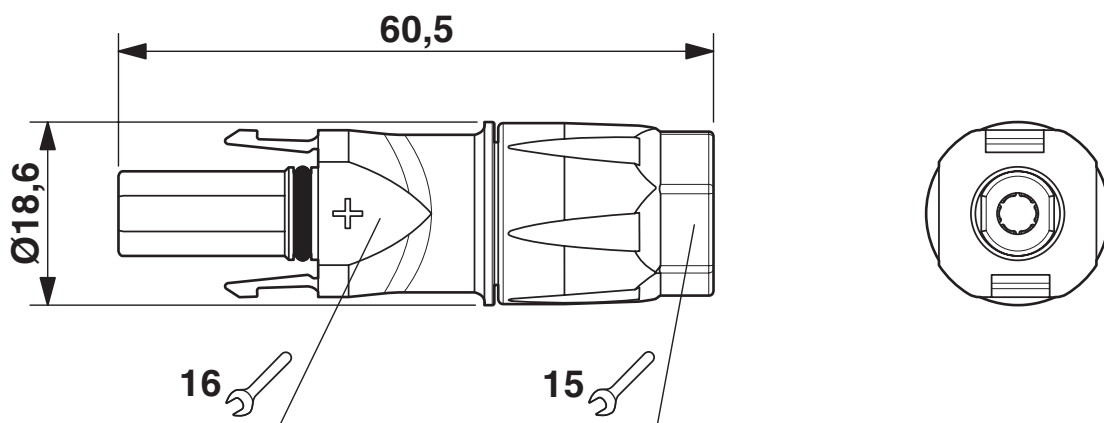
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Drawings

Dimensional drawing



Dimensional drawing



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Approvals

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TÜV Rheinland

Approval ID: R 60165497-0001

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Classifications

ECLASS

ECLASS-13.0	27440107
ECLASS-15.0	27440107

ETIM

ETIM 10.0	EC002635
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

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

EU REACH SVHC

REACH candidate substance (CAS No.)	Triphenyl phosphate(CAS: 115-86-6)
SCIP	ded957ad-7cee-4672-9af9-58acdd80b658

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