PV-CF/M-S-2,5-6 SET - Connector

1706611

https://www.phoenixcontact.com/us/products/1706611

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Connector, Range of articles: SUNCLIX, housing material: PPE, color: black, min. conductor cross-section: 2.5 mm^2, max. conductor cross-section: 6 mm^2, rated current: 27 A, Connection method: Spring-cage

Commercial data

Item number	1706611
Packing unit	1 pc
Minimum order quantity	10 pc
Product key	ABLBBS
GTIN	4046356884587
Weight per piece (including packing)	33.6 g
Weight per piece (excluding packing)	33.6 g
Country of origin	DE

Technical data

Product properties

Product type	Connector set
Product family	SUNCLIX

Insulation characteristics

Protection class	II
Degree of pollution	3

Electrical properties

Rated voltage (II/2)	1000 V
Rated voltage (III/2)	1100 V
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 mm²)	27 A
Rated current (4.0 mm²)	35 A
Rated current (6.0 mm²)	40 A
Contact resistance	0.45 mΩ

Connection data

Tightening torque	2 Nm ±0.1 Nm

Material specifications

Color	black
Color of the housing part	black
Flammability rating according to UL 94	V0
Insulating material group	I / CTI 600
Insulating material	mPPE
Contact surface	Silver Ag
Housing material	PPE
Cable seal material	EPDM
Contact material	Cu
Contact surface material	Ag
Contact carrier material	PPE
O-ring material	Silopren
Material for screw connection	PPE

Cable/line

Cable type	PV1-F cables
External cable diameter	5.5 mm ... 8 mm
Single wire, cross section	2.5 mm² 6 mm²
Cable pull-out force	> 330 N

Mechanical properties

Mechanical data

Insertion force	45 N ±10 N
Withdrawal force	250 N ±50 N

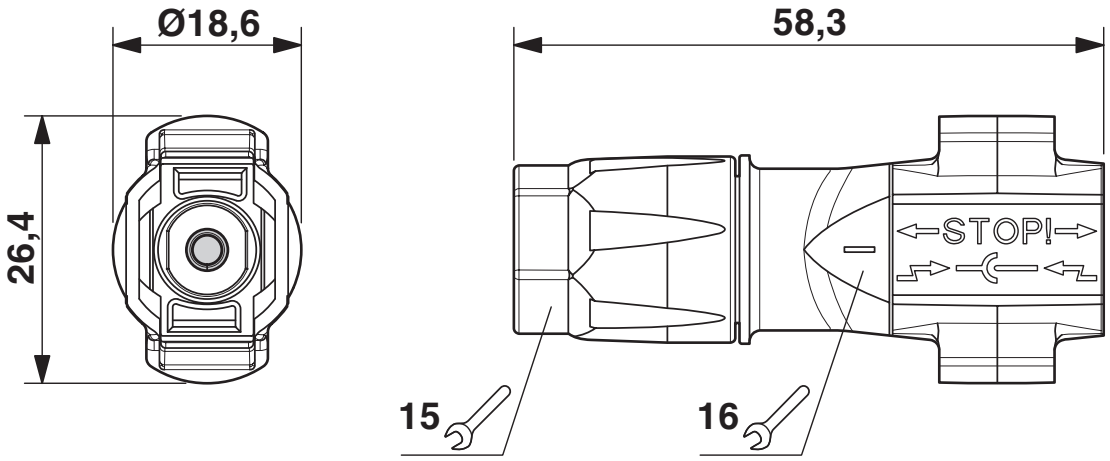
Environmental and real-life conditions

Ambient conditions

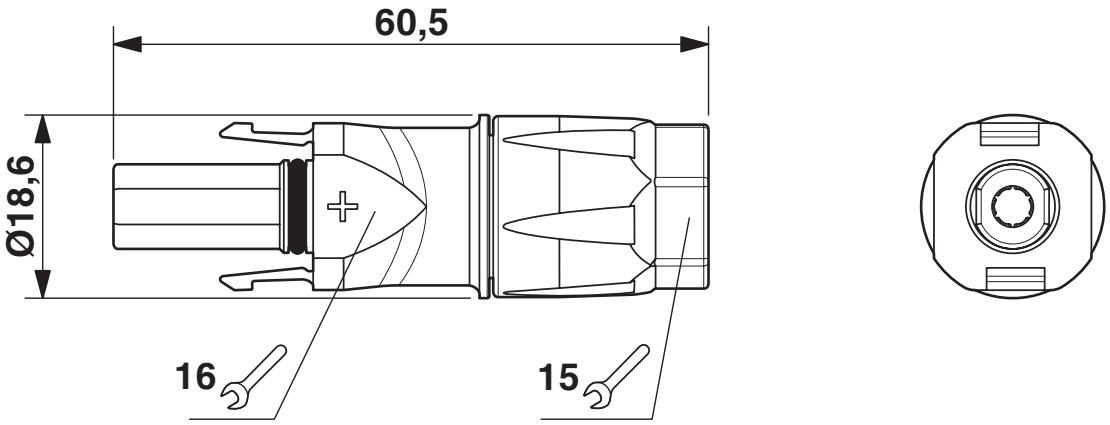
Degree of protection (when plugged in)	IP66/IP68 (2 m / 24 h)
Degree of protection	IP66/IP68 (2 m / 24 h)
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

Drawings

Dimensional drawing



Dimensional drawing



Classifications

ECLASS

ECLASS-13.0	27440107
ECLASS-15.0	27440107

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

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

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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