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

1706821

https://www.phoenixcontact.com/us/products/1706821

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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	1706821
Packing unit	1 pc
Minimum order quantity	10 pc
Product key	ABLBBS
GTIN	4046356883436
Weight per piece (including packing)	38.3 g
Weight per piece (excluding packing)	38.3 g
Country of origin	DE

Technical data

Product properties

Product type	Connector set
Product family	SUNCLIX

Insulation characteristics

Protection class	II
Degree of pollution	2

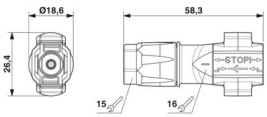
Electrical properties

Rated voltage (II/2)	1000 V
Rated voltage (III/2)	1100 V
Rated surge voltage (II/2)	12 kV
Rated surge voltage (III/2)	12.8 kV
Rated surge voltage (III/3)	12 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

Dimensions

Dimensional drawing	
Width	19 mm
Height	26.4 mm
Length	99.2 mm

Material specifications

Color	black
Color of the housing part	black
Flammability rating according to UL 94	V0
Insulating material group	I / CTI 600
Seal material	EPDM
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	EPDM
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

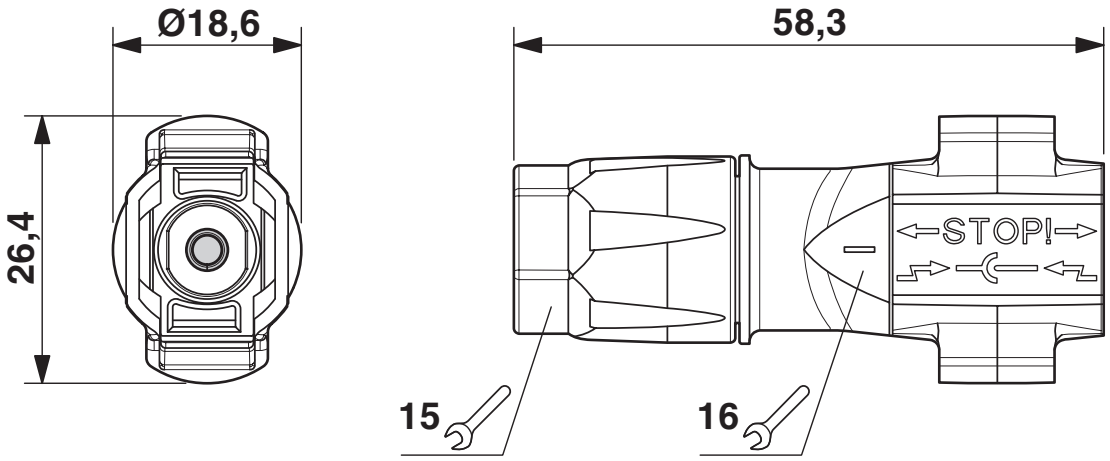
Environmental and real-life conditions

Ambient conditions

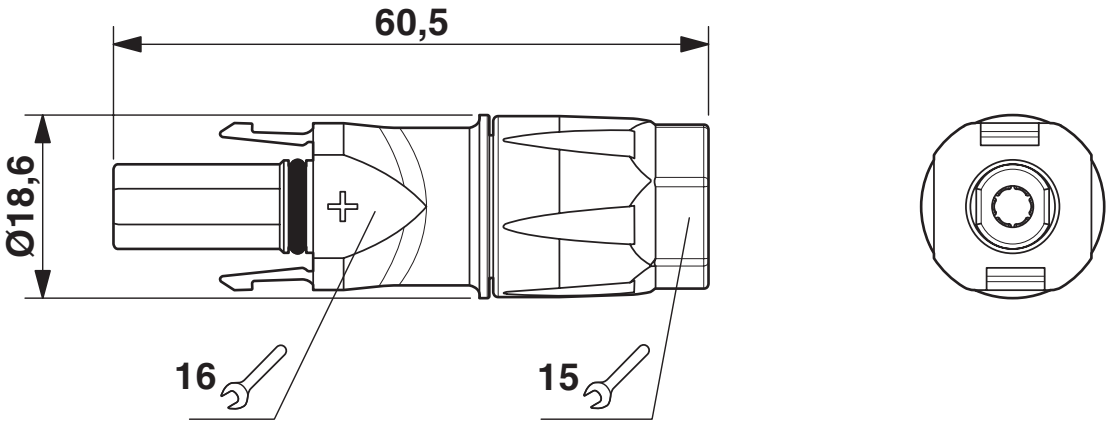
Degree of protection (when plugged in)	IP66/IP68 (2 m / 24 h)
Degree of protection	IP66/IP68 (2 m / 24 h)
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C
Ambient temperature (assembly)	-25 °C ... 50 °C

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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