ES-C4F-S-CO1 - Connector

1231076

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Connector, Range of articles: BPP, color: red/black, number of positions: 1, min. conductor cross-section: 2.5 mm^2, max. conductor cross-section: 6 mm^2, rated voltage: 1500 V DC, rated current: 35 A, Connection method: Spring-cage, min. cable diameter: 5 mm, max. cable diameter: 8 mm

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	1231076
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB04
Product key	ABLDBA
GTIN	4063151330439
Weight per piece (including packing)	16.578 g
Weight per piece (excluding packing)	16.578 g
Customs tariff number	85359000
Country of origin	IN

Technical data

Product properties

Product type	Connectors for energy storage
Product family	BPP
Number of positions	1

Insulation characteristics

Protection class	II
Degree of pollution	2

Electrical properties

Rated voltage (II/2)	1500 V
Rated voltage (III/2)	1500 V
Rated voltage	1500 V DC (II/2) in accordance with IEC 62852:2014/AMD1:2020
Rated surge voltage	16 kV
Rated surge voltage (II/2)	12 kV
Rated surge voltage (III/2)	12 kV
Rated surge voltage (III/3)	16 kV
Rated current (6.0 mm²)	35 A (in accordance with IEC 62852:2014-11)
Rated current (4.0 mm²)	30 A (in accordance with IEC 62852:2014-11)
Rated current (2.5 mm²)	20 A (in accordance with IEC 62852:2014-11)
Contact resistance	≤ 0.45 mΩ
Contact resistance	≤ 0.45 mΩ (when plugged in (without cable))

Connection data

Stripping length	15 mm

Dimensions

Width	20 mm
Height	20 mm
Length	82 mm

Material specifications

Color	red/black
Color of the housing part	black
Material Housing	PPE
Material Contact	Cu
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	mPPE
Cable seal material	EPDM
Contact surface material	Ag
O-ring material	Silopren LSR 2660

Cable/line

External cable diameter	5 mm ... 8 mm
External cable diameter	5 mm ... 8 mm
Single wire, cross section	2.5 mm² 6 mm²
Cable pull-out force	> 80 N
Halogen-free	yes

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	100
Insertion force	45 N ±10 N
Withdrawal force	250 N ±50 N (when locked)

Environmental and real-life conditions

Ambient conditions

Degree of protection (when plugged in)	IP66/IP68 (2 m / 2 h)
Degree of protection (not plugged in)	IP20
Ambient temperature (operation)	-40 °C ... 85 °C (dependent on the derating curve)
Ambient temperature (assembly)	-5 °C ... 50 °C

Standards and regulations

Standards/specifications	IEC 62852:2014/AMD1:2020

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1231076

TÜV Rheinland
Approval ID: R 60178082_0001

UL Recognized
Approval ID: E477377-20250305

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
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	1500 V	50 A	14 - 10	-

Classifications

ECLASS

ECLASS-13.0	27440107
ECLASS-15.0	27440107

ETIM

ETIM 10.0	EC002635

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.)	Triphenyl phosphate(CAS: 115-86-6)
SCIP	86576449-2ad4-4196-8b20-5abe8523d1ee

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com