

INDUSTRIAL COMPONENT DATA

PV-FT-CF-C-6-270-BK 1705051 PHOENIX CONTACT

Photovoltaic connector

Brand: PHOENIX CONTACT | Manufacturer Part Number: PV-FT-CF-C-6-270-BK



Manufacturer	PHOENIX CONTACT
MPN / Reference	PV-FT-CF-C-6-270-BK
Catalog number	1705051
Category	Sensor-actuator connector chassis
Minimum order	50 Pcs
Document ID	EO-3B55E8549F
Generated	2026-08-06

Product Overview

Photovoltaic connector

Conect. plug. to be apar. front wall, Item family: Sunclix, housing material: PPE, color: black, number of poles: 1, min. conductor section: 6 mm², Connection type: Crimping, Contact connection type: Female, cable length: 270

STRUCTURED PRODUCT DATA

Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

Classification & Catalog Path

Catalog path	PHOENIX CONTACT > Field Device Connectors (FDC)
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Additional Product Information

Photovoltaic connector, nominal current: 40 A, nom. voltage: 1500 V, connection method: Crimp, color: black. can only be released using a tool

Key Commercial Data

Orderkey 1705051

Packing unit 1

GTIN 4046356751001

Custom tariff number 85444290

Ambient conditions

Degree of protection (when plugged in) IP66 / IP68 (2 m / 24 h)

Degree of protection (not plugged in) IP65

Ambient temperature (operation) -40 °C ... 85 °C

Ambient temperature (assembly) -25 °C ... 50 °C

General

Design SocketTightening torque nut 1.8 Nm ± 0.1 NmInsertion force 45 N ± 10 NDisconnect force 250 N ± 50 NPull-out force of cable $\geq$ disconnect force > 80 N

Rated voltage 1500 V

Rated current (2.5 mm²)Rated current (4.0 mm²)Rated current (6.0 mm²) 40 ANominal cross section 6 mm²

Protection class II

Material

Color black

Insulating material mPPE

Contact material Cu

Contact surface material Ag

Flammability rating according to UL 94 V0

Connection data

Connection method Crimp

Connection capacity 6 mm²Contact resistance with connected conductor 0.45 m Ω

Cable type S03

Conductor

Outer sheath, material PE-X

External sheath, color black

Smallest bending radius, fixed installation 27 mm

Smallest bending radius, movable installation 54 mm

Standards and Regulations

Flammability rating according to UL 94 V0

Environmental Product Compliance

China RoHS Environmentally friendly use period: unlimited = EFUP-e

No hazardous substances above threshold values

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REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / PV-FT-CF-C-6-270-BK with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

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