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-50E9B2D6CC
Generated	2026-11-19

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)

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 Socket
Tightening torque nut 1.8 Nm ±0.1 Nm
Insertion force 45 N ±10 N
Disconnect force 250 N ±50 N
Pull-out force of cable >= disconnect force > 80 N
Rated voltage 1500 V
Rated current (2.5 mm²)
Rated current (4.0 mm²)
Rated current (6.0 mm²) 40 A
Nominal 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 mm²
Contact resistance with connected conductor 0.45 m?
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
eCl@ss
eCl@ss 4.0 272607xx
eCl@ss 4.1 27260701
eCl@ss 5.0 27260701....

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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