

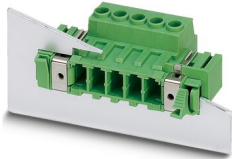
Feed-through plug - DFK-PC 5/ 4-STF-7,62



1716632

<https://www.phoenixcontact.com/in/products/1716632>

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Feed-through connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, type of contact: Male connector, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: DFK-PC 5/...-STF, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, conductor/PCB connection direction: 0 °, plug-in system: POWER COMBICON 5, Pin connector pattern alignment: Standard, Locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors
- Flange system enables secure fixing to the housing panel by means of tool-free snap-in locking or screws
- Shroud for professional EMC shield connection on the front of the device
- Screwable flange for superior mechanical stability

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Commercial Data

Order Key	1716632
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	AAB
Product Key	AADWEB
Catalog Page	Page 549 (C-1-2013)
GTIN	4046356137256
Weight per Piece (including packing)	31.853 g
Weight per Piece (excluding packing)	29.6 g
Customs tariff number	85366990
Country of origin	PL

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Technical Data

Product properties

Type	Feed-through header
Number of positions	4
Number of connections	4
Number of rows	1
Connector system	POWER COMBICON 5
Mounting flange	Screw flange
Number of potentials	4

Electrical properties

Maximum load current	41 A
Rated voltage (II/2)	1000 V
Rated voltage (III/2)	1000 V
Rated surge voltage (II/2)	6 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	8 kV
Nominal voltage U_N	630 V
Nominal current I_N	41 A
Nominal current I_N	41 A

Connection data

Connection technology

Type	Feed-through header
Connector system	POWER COMBICON 5
Nominal cross section	6 mm ²
Type of contact	Male connector

Interlock

Locking type	Screw locking
Mounting flange	Screw flange

Conductor connection

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section solid	0.2 mm ² ... 10 mm ²
Conductor cross section flexible	0.2 mm ² ... 6 mm ²
Conductor cross section AWG	24 ... 10
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 6 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 4 mm ²
2 conductors with same cross section, solid	0.2 mm ² ... 2.5 mm ²
2 conductors with same cross section, flexible	0.2 mm ² ... 4 mm ²

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2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.25 mm ² ... 2.5 mm ²
Cylindrical gauge a x b / diameter	3.6 mm x 3.1 mm / 3.4 mm
Stripping length	10 mm
Torque	0.7 Nm ... 0.8 Nm

Material specifications

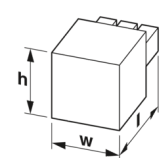
Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 µm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 µm Sn)

Material data - housing

Housing color	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

Dimensions

Dimensional drawing	
Width	65.1 mm
Height	26.24 mm
Installed height	26.24 mm
Length	48.95 mm
Pitch	7.62 mm

Mechanical tests

Test for conductor damage and slackening

Specification	IEC 60999-1:1999-11
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Result	Test passed
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Pull-out test

Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm ² / solid / > 10 N
	0.2 mm ² / flexible / > 10 N
	10 mm ² / solid / > 90 N
	6 mm ² / flexible / > 80 N

Insertion and withdrawal forces

Result	Test passed
No. of cycles	50
Insertion strength per pos. approx.	5 N
Withdraw strength per pos. approx.	4 N

Resistance of inscriptions

Specification	IEC 60068-2-70:1995-12
Result	Test passed

Polarization and coding

Specification	IEC 60512-13-5:2006-02
Result	Test passed

Visual inspection

Specification	IEC 60512-1-1:2002-02
Result	Test passed

Dimension check

Specification	IEC 60512-1-2:2002-02
Result	Test passed

Electrical tests

Electrical properties

Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Contact resistance	0.5 mΩ
Pollution degree	2

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	12

Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
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Insulating material group	I
Comparative tracking index (IEC 60112:2003-01)	CTI 600
Rated insulation voltage (III/3)	630 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	8 mm
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	5 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5 mm

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Sweep speed	5g (60.1 - 150 Hz)
Test duration per axis	2.5 h

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	9.8 kV
Contact resistance R_1	0.5 m Ω
Contact resistance R_2	0.6 m Ω
Insertion/withdrawal cycles	50
Insulation resistance, neighboring positions	> 5 M Ω

Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	4.26 kV

Ambient conditions

Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

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Type of packaging	packed in cardboard
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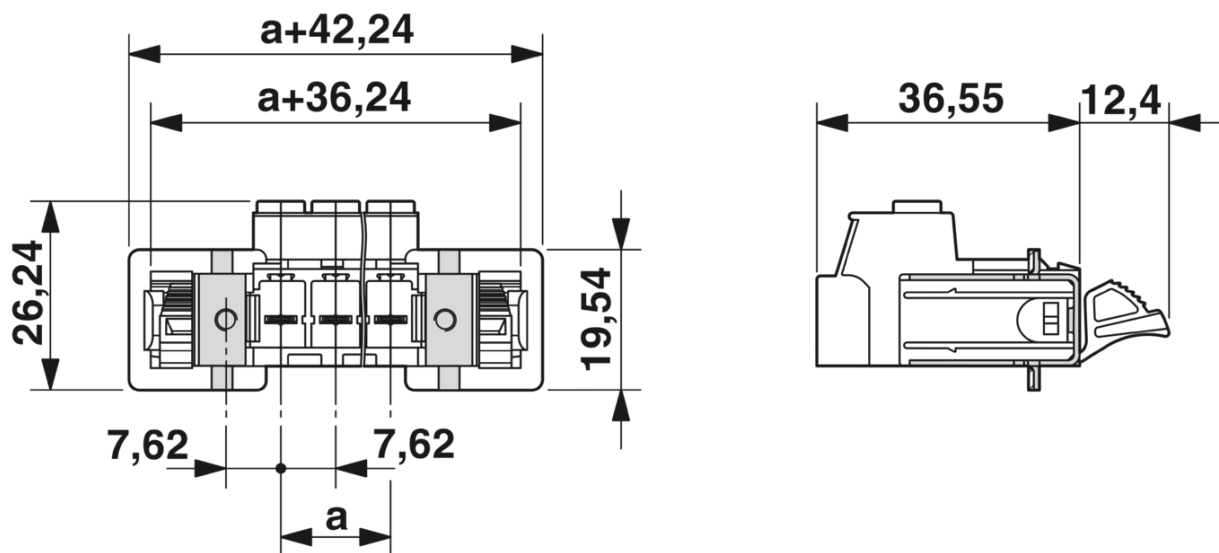
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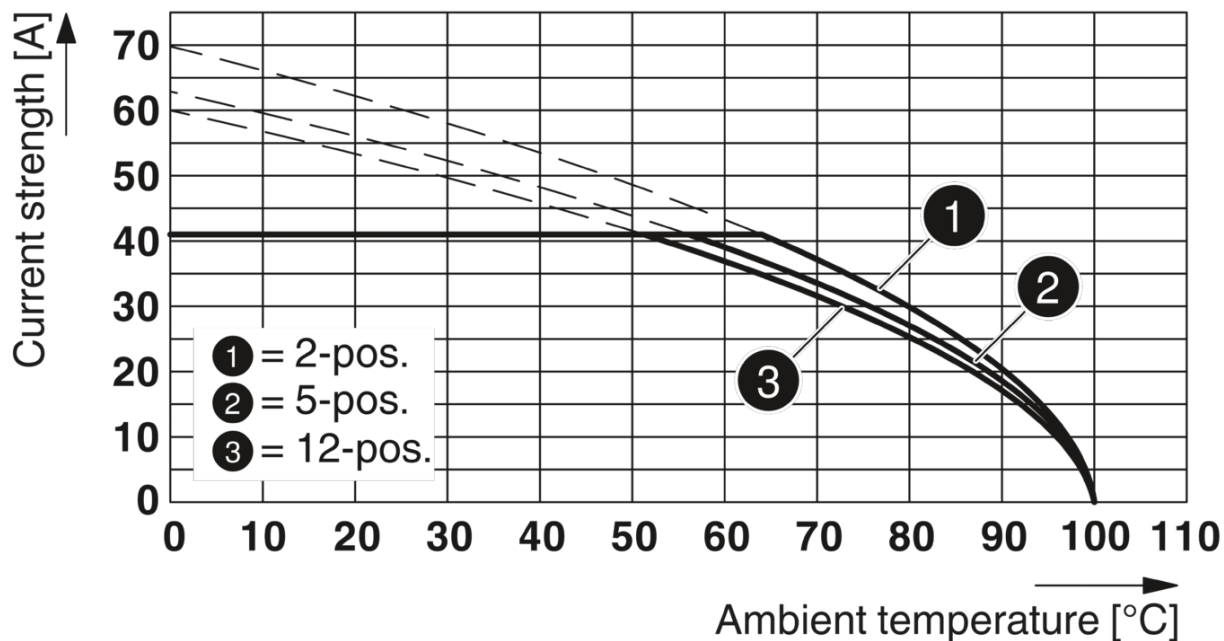
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Drawings

Dimensional drawing



Diagram

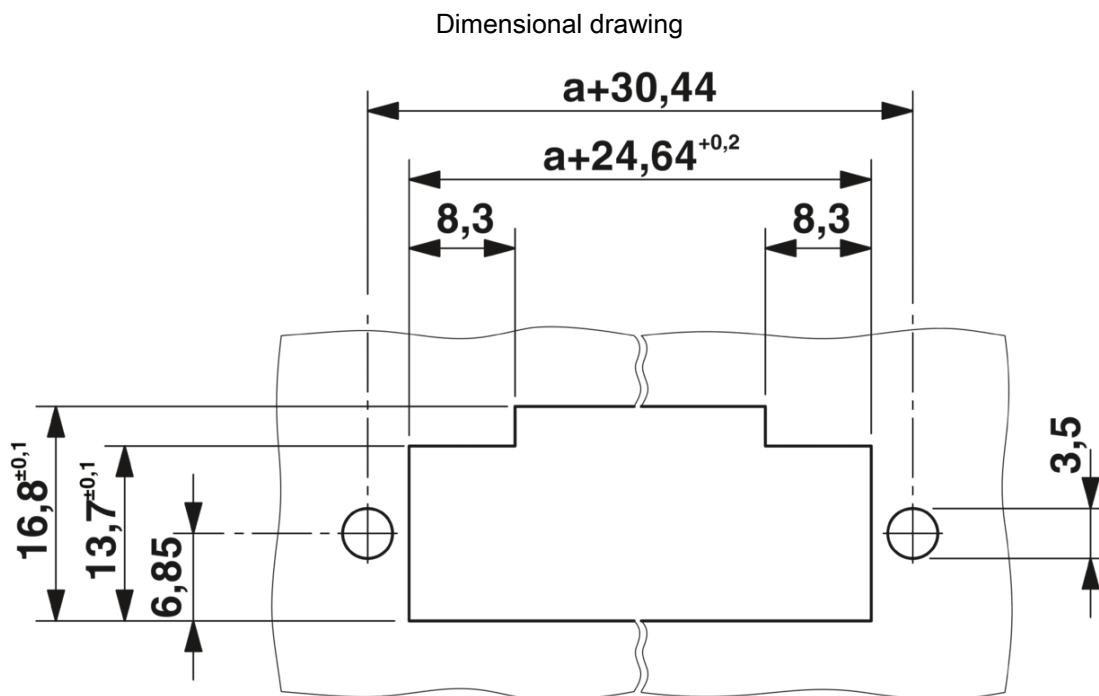


Type: SPC 5/...-STF-7,62 with DFK-PC 5/...-STF-7,62
 Conductor cross section: 10 mm²

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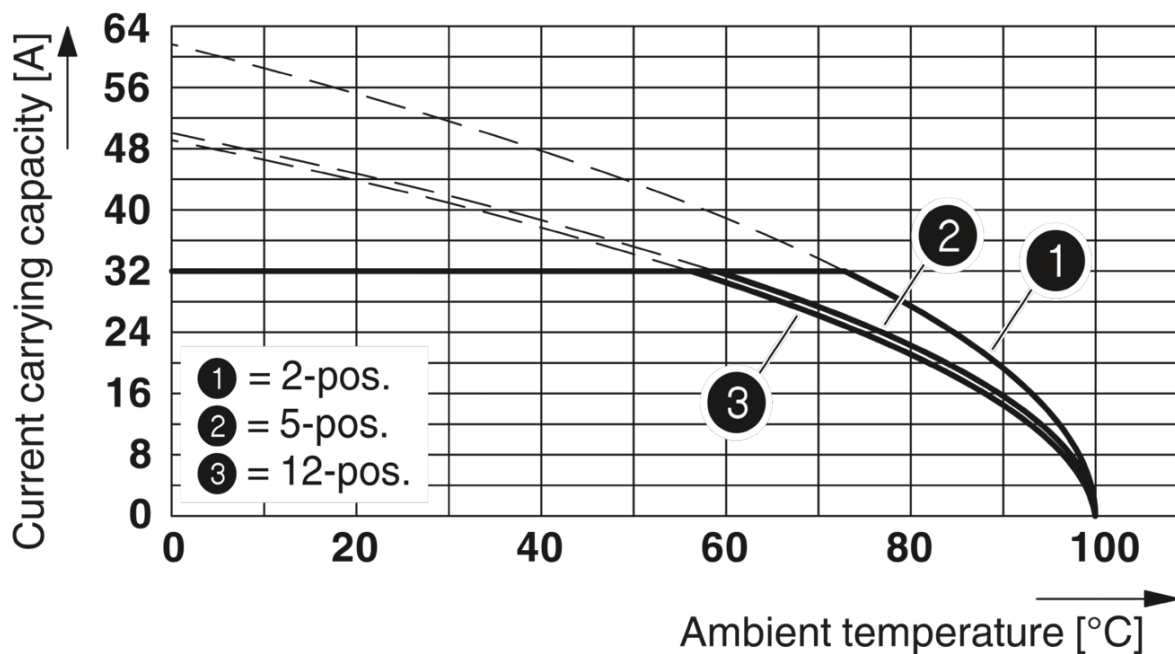
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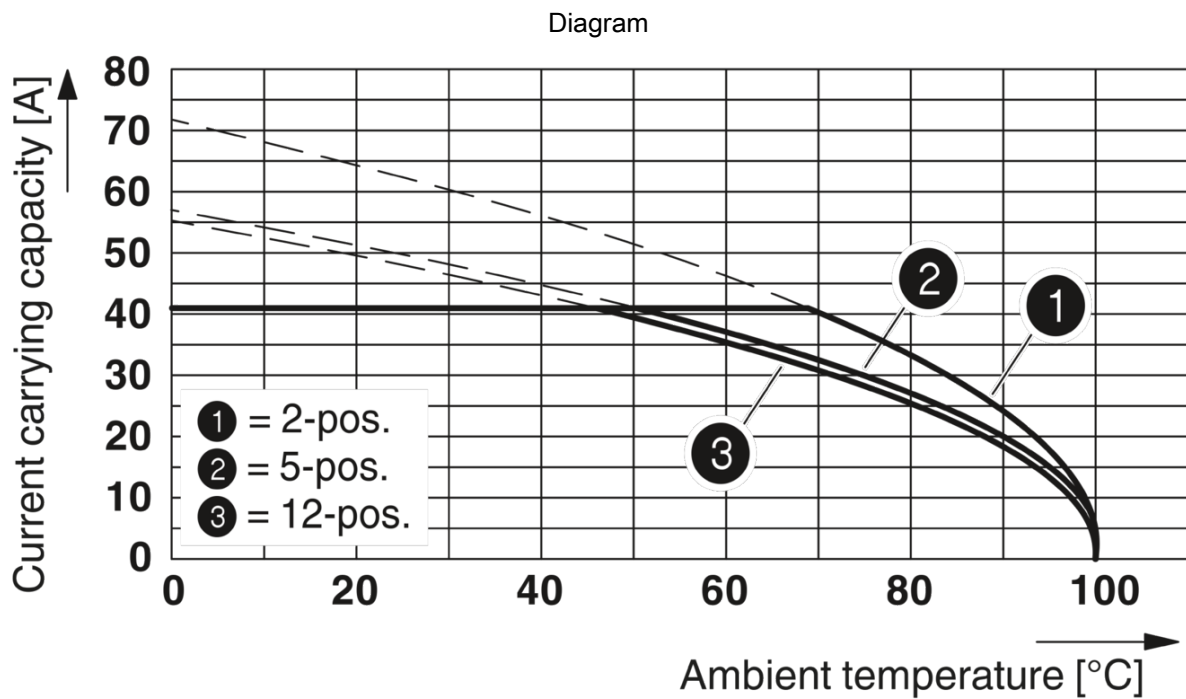
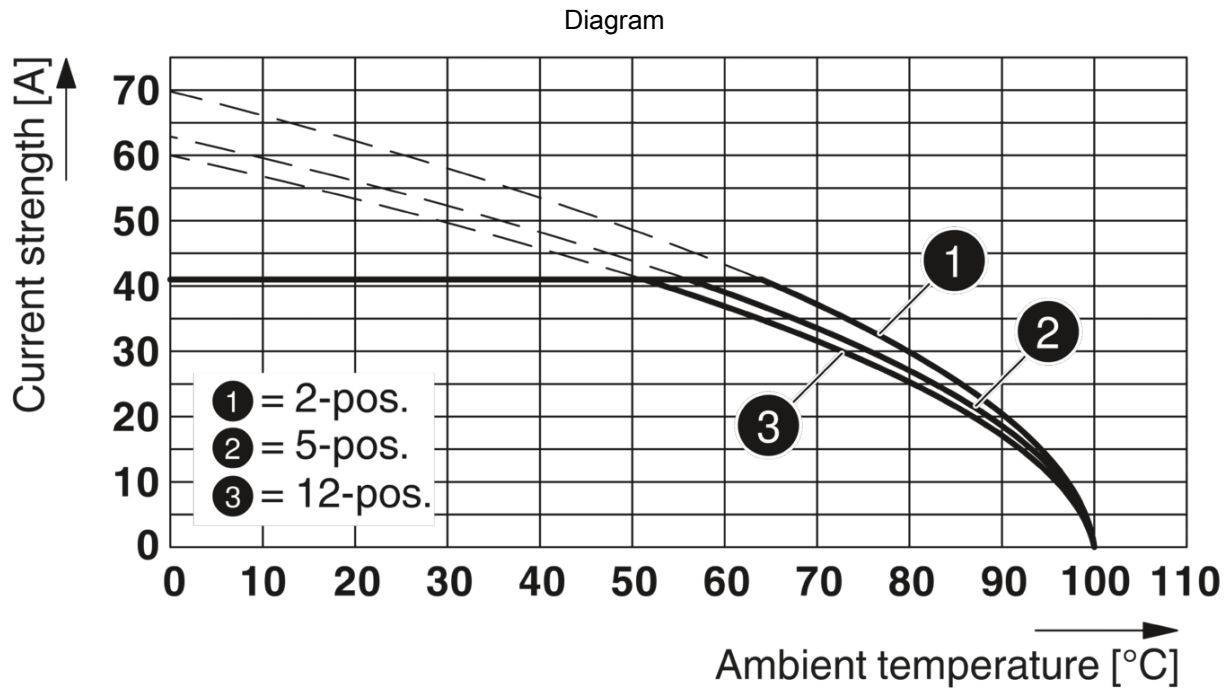


Sheet metal cutout for screw connection.

Diagram



Derating curve for: DFK-PC 5/...-ST-7,62 with PC 5/...-ST-7,62
 Conductor cross section = 6 mm²



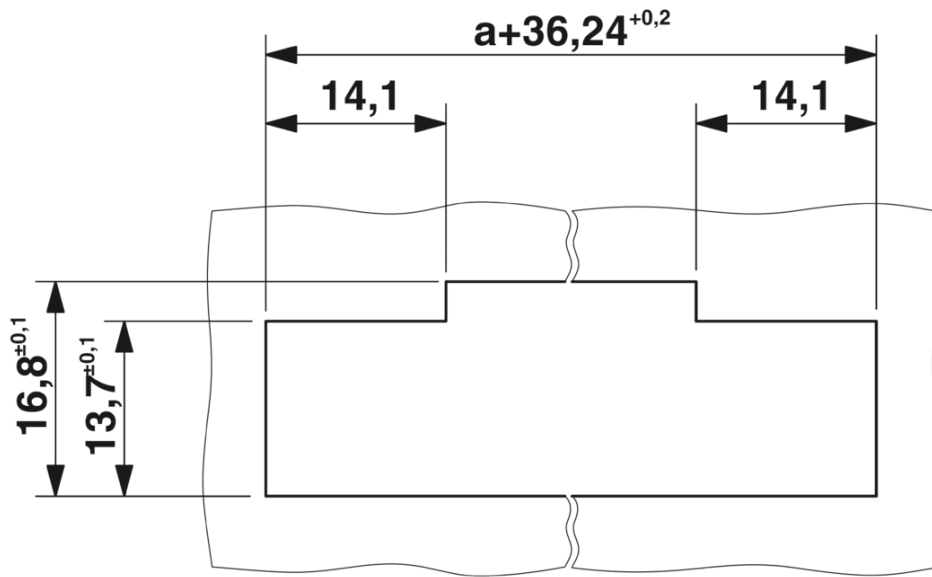
Derating curve for: DFK-PC 5/...-ST-7,62 with PC 5/...-ST-7,62
 Conductor cross section = 10 mm²

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Dimensional drawing



Sheet metal cutout for snap-on.

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Approvals

EAC

cULus Recognized 	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B	600 V	41 A	24 - 8	-
Use group C	600 V	41 A	24 - 8	-

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Classifications

ECLASS

ECLASS-9.0	27440309
ECLASS-10.0.1	27440309
ECLASS-11.0	27460202

ETIM

ETIM 6.0	EC002638
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UNSPSC

UNSPSC 19.0	39121409
UNSPSC 20.0	39121409
UNSPSC 21.0	39121409

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Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
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Accessories

Accessories

Accessories - DFK-PC 16-SS - 1705449



Screw set for DFK-PC 16... connectors

Accessories

Accessories - DFK-PC MOUNT SET - 1054021



Contains 20 pcs. latch and screw elements for feed-through connectors each

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Marker card

Marker card - SK 7,62/3,8:FORTL.ZAHLEN - 0804549

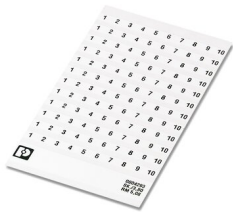
Marker card, Card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: 7.62 x 3.8 mm



Marker card

Marker card - SK 3,8 REEL P7,62 WH CUS - 0825128

Marker card, Card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: continuous x 3.8 mm



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Marker card

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906

Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440



Philips screwdriver

Philips screwdriver - SZK PZ1 VDE - 1206450

Screwdriver, PZ crosshead, VDE insulated, size: PZ 1 x 80 mm, 2-component grip, with non-slip grip



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Coding profile

Coding profile - CP-PC RD - 1701967

Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red



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