

1711752

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PCB connector, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 6, number of rows: 2, number of positions: 3, number of connections: 6, product range: DFMC 1,5/..-STF, pitch: 3.5 mm, connection method: Push-in spring connection, mounting: Insertion in base strip, conductor/PCB connection direction: 0 °, plug-in system: COMBICON DFMC 1,5, locking: Screw locking mechanism, mounting method: Screw flange, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- · Intuitive operation due to color-coded actuating push button
- · Optimized for tight installation situations: operation and conductor connection from one direction
- · Screwable flange for superior mechanical stability

Commercial data

Item number	1711752
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA02
Product key	AABFJB
GTIN	4055626254227
Weight per piece (including packing)	3.75 g
Weight per piece (excluding packing)	3.73 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Product properties

Product type	PCB connector
Product family	DFMC 1,5/STF
Product line	COMBICON Connectors S
Туре	Plug component
Number of positions	3
Pitch	3.5 mm
Number of connections	6
Number of rows	2
Number of potentials	6

Electrical properties

Properties

•	
Nominal current I _N	8 A
Nominal voltage U _N	160 V
Contact resistance	2.1 mΩ
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Connection technology

Туре	Plug component
Connector system	COMBICON DFMC 1,5
Nominal cross section	1.5 mm²
Contact connection type	Socket

Interlock

Locking type	Screw locking mechanism
Mounting flange	Screw flange
Tightening torque	0.2 Nm

Conductor connection

Connection method	Push-in spring connection
Conductor/PCB connection direction	0°
Conductor cross section rigid	0.2 mm² 1.5 mm²
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 16



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Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.75 mm²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.6 mm
Stripping length	10 mm
pecifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.25 mm²; Length: 7 mm
	Cross section: 0.34 mm ² ; Length: 7 mm
	Cross section: 0.5 mm²; Length: 8 mm 10 mm
	Cross section: 0.75 mm²; Length: 8 mm 10 mm
	Cross section: 1 mm²; Length: 8 mm 10 mm
	Cross section: 1.5 mm²; Length: 10 mm
pecifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules with insulating collar, according to DIN 46228-4	Cross section: 0.14 mm²; Length: 8 mm
	Cross section: 0.25 mm²; Length: 8 mm 10 mm
	Cross section: 0.34 mm²; Length: 8 mm 10 mm
	Cross section: 0.5 mm²; Length: 8 mm 10 mm
terial specifications	Cross section: 0.75 mm²; Length: 10 mm
·	
laterial data - contact	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC
laterial data - contact Note	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Note Contact material	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy
Note Contact material Surface characteristics	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer)	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn)
Contact material Surface characteristics Metal surface terminal point (top layer)	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn)
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Material data - housing	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn)
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Material data - housing Color (Housing)	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn)
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Material data - housing Color (Housing) Insulating material	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn)
Adaterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Adaterial data - housing Color (Housing) Insulating material Insulating material group	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) black (9005) PA
Idaterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Idaterial data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) black (9005) PA I 600
Adaterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Adaterial data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) black (9005) PA I 600 V0
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Material data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94 Glow wire flammability index GWFI according to EN 60695-2-12 Glow wire ignition temperature GWIT according to EN 60695-2-	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) black (9005) PA I 600 V0 850
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Material data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94 Glow wire flammability index GWFI according to EN 60695-2-12 Glow wire ignition temperature GWIT according to EN 60695-2-13 Temperature for the ball pressure test according to EN 60695-10-2	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) black (9005) PA I 600 V0 850 775
Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Material data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94 Glow wire flammability index GWFI according to EN 60695-2-12 Glow wire ignition temperature GWIT according to EN 60695-2-13 Temperature for the ball pressure test according to EN 60695-	Cross section: 0.75 mm²; Length: 10 mm WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) black (9005) PA I 600 V0 850 775



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Insulating material	PBT
Insulating material group	1
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	h
Pitch	3.5 mm
Width [w]	17.5 mm
Height [h]	13.25 mm
Length [I]	23.35 mm

Mounting

Mounting type	Insertion in base strip
Flange	
Tightening torque	0.2 Nm

Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no
	switching power (COC). During designated use, they must not be
	plugged in or disconnected when carrying voltage or under load.

Mechanical tests

Conductor connection

Specification	IEC 60999-1:1999-11
Result	Test passed

Test for conductor damage and slackening

Specification	C 60999-1:1999-11
Result	est passed

Repeated connection and disconnection

Specification	IEC 60999-1:1999-11
Result	Test passed

Pull-out test

Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N



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Specification	IEC 60512-13-2:2006-02
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	3 N
Withdraw strength per pos. approx.	2 N
esistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
olarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
sual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
imension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
rironmental and real-life conditions	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
ricquonoy	10 - 100 - 10112

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

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	2.1 mΩ
Contact resistance R ₂	2.4 mΩ
Insertion/withdrawal cycles	25

Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 dm 3 /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	1.39 kV



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Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	30g
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)
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

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	20
Insulation resistance	

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

Temperature cycles

Specification	IEC 60999-1:1999-11
Result	Test passed

Air clearances and creepage distances |

All clearances and creepage distances		
IEC 60664-1:2007-04		
I		
CTI 600		
160 V		
2.5 kV		
1.5 mm		
2 mm		
160 V		
2.5 kV		
1.5 mm		
1.5 mm		
320 V		
2.5 kV		
1.5 mm		
1.6 mm		

Packaging specifications

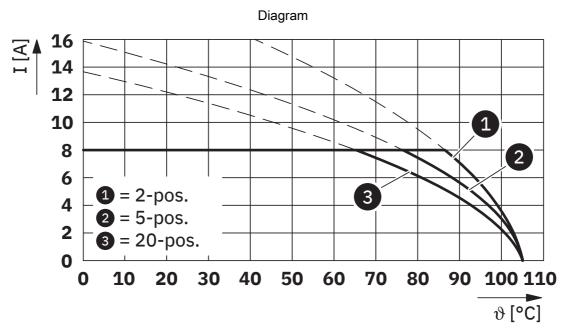
Type of packaging	packed in cardboard



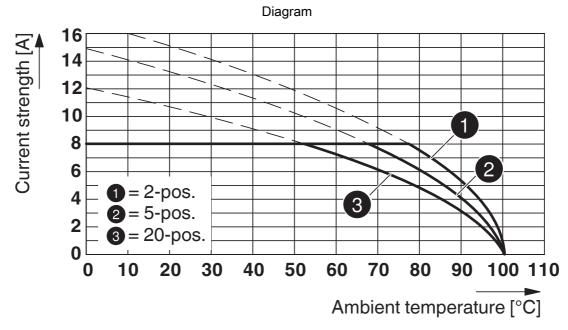
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Drawings



Type: DFMC 1,5/...-STF-3,5 with DMC 1,5/...-G1F-3,5-LR P...THR

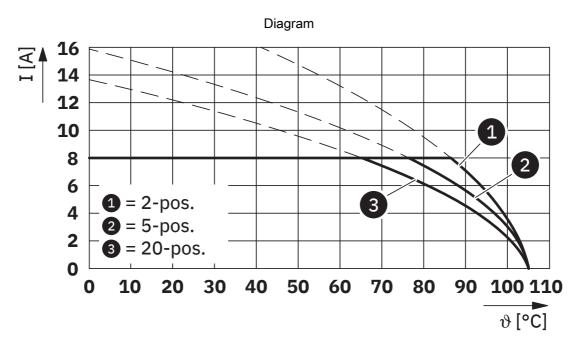


Type: DFMC 1,5/...-STF-3,5 with DMCV 1,5/...-G1F-3,5-LR P...THR



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Type: DFMC 1,5/...-STF-3,5 with DMC 1,5/...-G2F-3,5-LR P...THR



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1711752

CULus Recognized Approval ID: E60425-19920306				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
Field wiring	300 V	8 A	24 - 16	-
Use group C				
Factory wiring	50 V	8 A	24 - 16	-
Use group D				
Field wiring	300 V	8 A	24 - 16	-

₩ DE	VDE report with production monitoring Approval ID: 40038423				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		160 V	8 A	-	0.2 - 1.5



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Classifications

ECLAS	S
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	ECLASS-13.0	27460202	
ΕT	ETIM		
	ETIM 9.0	EC002638	
UNSPSC			
	UNSPSC 21.0	39121400	



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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%
EF3.0 Climate Change	
CO2e kg	0.078 kg CO2e

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