1844138

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PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: IFMC 1,5/..-ST-RN, pitch: 3.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: Snap-in locking, mounting: Engagement nose, 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
- · Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- · Intuitive locking mechanism prevents accidental disconnection

Commercial data

Item number	1844138
Packing unit	50 рс
Minimum order quantity	50 рс
Sales key	AA02
Product key	AABFIC
GTIN	4046356947480
Weight per piece (including packing)	3.304 g
Weight per piece (excluding packing)	3.29 g
Customs tariff number	85366990
Country of origin	SK



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Technical data

Product properties

Product type	PCB connector
Product family	IFMC 1,5/ST-RN
Product line	COMBICON Connectors S
Туре	Inverted
Number of positions	5
Pitch	3.5 mm
Number of connections	5
Number of rows	1
Number of potentials	5
Mounting flange	Engagement nose

Electrical properties

Nominal current I _N	8 A
Nominal voltage U _N	160 V
Degree of pollution	3
Contact resistance	2.7 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	Inverted
Connector system	COMBICON MC 1,5
Nominal cross section	1.5 mm²
Contact connection type	Pin

Interlock

Locking type	Snap-in locking
Mounting flange	Engagement nose

Conductor connection

Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.14 mm ² 1.5 mm ²
Conductor cross section flexible	0.14 mm ² 1.5 mm ²
Conductor cross section AWG	24 16
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 1.5 mm²

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0.14 mm ² 0.75 mm ²
2.4 mm x 1.5 mm / -
10 mm
1212034 CRIMPFOX 6
Cross section: 0.25 mm ² ; Length: 5 mm 7 mm
Cross section: 0.34 mm ² ; Length: 7 mm
Cross section: 0.5 mm ² ; Length: 8 mm 10 mm
Cross section: 0.75 mm ² ; Length: 8 mm 10 mm
Cross section: 1 mm ² ; Length: 8 mm 10 mm
Cross section: 1.5 mm ² ; Length: 10 mm
1212034 CRIMPFOX 6
Cross section: 0.14 mm ² ; Length: 8 mm
Cross section: 0.34 mm ² ; Length: 8 mm 10 mm
Cross section: 0.5 mm ² ; Length: 8 mm 10 mm
Cross section: 0.75 mm ² ; Length: 10 mm

Material specifications

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)
terial data - housing	
Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	1
CTI according to IEC 60112	600
Flammability rating according to UL 94	VO
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
terial data – actuating element	
Color (Actuating element)	orange (2003)
Insulating material	PBT
Insulating material group	





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CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	h
Pitch	3.5 mm
Width [w]	21.1 mm
Height [h]	7.75 mm
Length [I]	24.6 mm

Mechanical tests

Conductor connection	
Specification	IEC 60999-1:1999-11
Result	Test passed
Test for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test 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	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25
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
op contraction	



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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

Environmental and real-life conditions

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
urability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	2.7 mΩ
Contact resistance R ₂	2.8 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
imatic 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	1.39 kV
nbient 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

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		



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Insulation resistance, neighboring positions	> 5 MΩ
Temperature cycles	
Specification	IEC 60999-1:1999-11
Result	Test passed
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 mm

Packaging specifications

Type of packaging

packed in cardboard



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Drawings



Type: FMC 1,5/...-ST-3,5-RF with IFMC 1,5/...-ST-3,5-RN

Dimensional drawing







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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1844138

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

VDE Zeichengenehmigung Approval ID: 40011723				
	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

ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202

ETIM

	ETIM 9.0	EC002638		
UN	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%		

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Accessories

SK U/2,8 WH:UNBEDRUCKT - Marker card

0803883 https://www.phoenixcontact.com/us/products/0803883

Marker card, Din A4, 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 2.8 mm, Number of individual labels: 3600



B-STIFT - Marker pen

1051993 https://www.phoenixcontact.com/us/products/1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 $\rm mm$

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CRIMPFOX 6 - Crimping pliers

1212034

https://www.phoenixcontact.com/us/products/1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

SZS 0,4X2,5 VDE - Screwdriver

1205037 https://www.phoenixcontact.com/us/products/1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

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A 0,25-5-Ferrule

3202465

https://www.phoenixcontact.com/us/products/3202465



Ferrule, color: silver

A 0,25-7 - Ferrule

3202478 https://www.phoenixcontact.com/us/products/3202478



Ferrule, color: silver

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A 0,34-7 - Ferrule

3009202

https://www.phoenixcontact.com/us/products/3009202



Ferrule, color: silver

A 0,5 - 8 - Ferrule

3202481 https://www.phoenixcontact.com/us/products/3202481



Ferrule, color: silver

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A 0,5 -10 - Ferrule

3202494

https://www.phoenixcontact.com/us/products/3202494



Ferrule, color: silver

A 0,75-8 - Ferrule

3202504 https://www.phoenixcontact.com/us/products/3202504



Ferrule, color: silver

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A 0,75-10 - Ferrule

3200234

https://www.phoenixcontact.com/us/products/3200234



Ferrule, color: silver

A 1 - 8 - Ferrule

3202517 https://www.phoenixcontact.com/us/products/3202517



Ferrule, sleeve length: 8 mm, color: silver

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A 1 -10 - Ferrule

3200250

https://www.phoenixcontact.com/us/products/3200250



Ferrule, color: silver

A 1,5 -10 - Ferrule

3200276 https://www.phoenixcontact.com/us/products/3200276



Ferrule, sleeve length: 10 mm, color: silver

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AI 0,14-8 GY -1000 - Ferrule

3203011

https://www.phoenixcontact.com/us/products/3203011



Ferrule, sleeve length: 8 mm, color: gray

AI 0,34-8 TQ - Ferrule

3203066 https://www.phoenixcontact.com/us/products/3203066



Ferrule, sleeve length: 8 mm, color: turquoise

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https://www.phoenixcontact.com/us/products/1844138



AI 0,34-10 TQ - Ferrule

3241129

https://www.phoenixcontact.com/us/products/3241129

Ferrule, sleeve length: 10 mm, color: turquoise

AI 0,5 - 8 WH - Ferrule

3200014 https://www.phoenixcontact.com/us/products/3200014



Ferrule, sleeve length: 8 mm, color: white

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AI 0,5 -10 WH - Ferrule

3201275

https://www.phoenixcontact.com/us/products/3201275



Ferrule, sleeve length: 10 mm, color: white

Al 0,75-8 GY - Ferrule

3200519 https://www.phoenixcontact.com/us/products/3200519



Ferrule, sleeve length: 8 mm, color: gray

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AI 0,75-10 GY - Ferrule

3201288 https://www.phoenixcontact.com/us/products/3201288

Ferrule, sleeve length: 10 mm, color: gray

AI 0,25-8 YE - Ferrule

3203037 https://www.phoenixcontact.com/us/products/3203037



Ferrule, sleeve length: 8 mm, color: yellow

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FMC 1,5/ 5-ST-3,5-RF - PCB connectors

1952050

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PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: FMC 1,5/..-ST-RF, pitch: 3.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard

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