

1844277

https://www.phoenixcontact.com/us/products/1844277

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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: 8, number of rows: 1, number of positions: 8, number of connections: 8, product range: IFMC 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

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	1844277
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA02
Product key	AABFIB
GTIN	4046356947404
Weight per piece (including packing)	5.47 g
Weight per piece (excluding packing)	5.47 g
Customs tariff number	85366990
Country of origin	SK



1844277

https://www.phoenixcontact.com/us/products/1844277

Technical data

Product properties

Туре	Inverted
Product line	COMBICON Connectors S
Product type	PCB connector
Product family	IFMC 1,5/ST-RF
Number of positions	8
Pitch	3.5 mm
Number of connections	8
Number of rows	1
Mounting flange	Self-locking flange
Number of potentials	8

Electrical properties

Nominal current I _N	8 A
Nominal voltage U _N	160 V
Degree of pollution	3
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

	Inverted
Connector system	COMBICON MC 1,5
Nominal cross section	1.5 mm ²
Contact connection type	Pin

Interlock

Locking type	Snap-in locking
Mounting flange	Self-locking flange

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 mm² 1.5 mm²
Conductor cross section AWG	24 16
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 1.5 mm²



1844277

https://www.phoenixcontact.com/us/products/1844277

sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.14 mm ² 0.75 mm ²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 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 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
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 mm ² ; Length: 8 mm
	Cross section: 0.25 mm ² ; Length: 8 mm 10 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

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 (2 - 4 μm Sn)
Metal surface contact area (top layer)	Tin (2 - 4 μm Sn)

Material 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	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
Material data – actuating element	
Color (Actuating element)	orange (2003)
Insulating material	PBT



1844277

https://www.phoenixcontact.com/us/products/1844277

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

Dimensions

Dimensional drawing	h w
Pitch	3.5 mm
Width [w]	38.1 mm
Height [h]	7.8 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	
Dependence and disconnection		
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.	3 N	
Withdraw strength per pos. approx.	3 N	
Resistance of inscriptions		
Specification	IEC 60068-2-70:1995-12	
Result	Test passed	
Delerization and ording		

Polarization and coding



1844277

https://www.phoenixcontact.com/us/products/1844277

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		

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)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
ability test	
Specification	IEC 60512-9-1:2010-03
mpulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	2.1 mΩ
Contact resistance R ₂	2.3 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
natic 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
bient 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	



1844277

https://www.phoenixcontact.com/us/products/1844277

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
emperature cycles	
Specification	IEC 60999-1:1999-11
Result	Test passed
ir clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	1
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

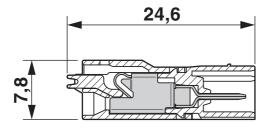


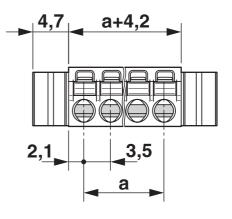
1844277

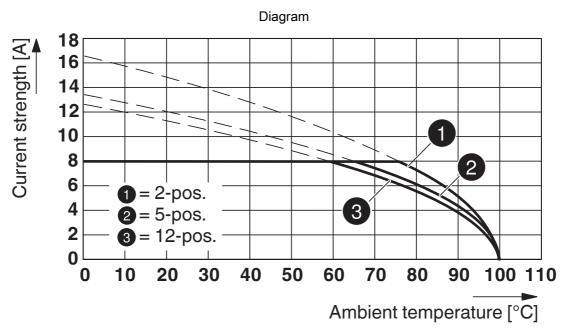
https://www.phoenixcontact.com/us/products/1844277

Drawings

Dimensional drawing







Type: IFMC 1,5/...-ST-3,5-RF with IMC 1,5/...-G-3,5 RN P20 THR



1844277

https://www.phoenixcontact.com/us/products/1844277

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1844277

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 Zeichengenel Approval ID: 40011723	nmigung			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	160 V	8 A	-	0.2 - 1.5



1844277

https://www.phoenixcontact.com/us/products/1844277

Classifications

ECLASS

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

ETIM

	ETIM 9.0	EC002638
U	NSPSC	
	UNSPSC 21.0	39121400



1844277

https://www.phoenixcontact.com/us/products/1844277

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



1844277

https://www.phoenixcontact.com/us/products/1844277

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 $\rm mm$



1844277

https://www.phoenixcontact.com/us/products/1844277

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



1844277

https://www.phoenixcontact.com/us/products/1844277

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





1844277

https://www.phoenixcontact.com/us/products/1844277

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





1844277

https://www.phoenixcontact.com/us/products/1844277

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





1844277

https://www.phoenixcontact.com/us/products/1844277

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





1844277

https://www.phoenixcontact.com/us/products/1844277

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





1844277

https://www.phoenixcontact.com/us/products/1844277

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



1844277

https://www.phoenixcontact.com/us/products/1844277

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



1844277

https://www.phoenixcontact.com/us/products/1844277

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



1844277

https://www.phoenixcontact.com/us/products/1844277

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



1844277

https://www.phoenixcontact.com/us/products/1844277

IMC 1,5/ 8-G-3,5 RN P20 THR - PCB header

1830621

https://www.phoenixcontact.com/us/products/1830621



PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 8, number of rows: 1, number of positions: 8, number of connections: 8, product range: IMC 1,5/..-G-RN-THR, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2 mm, number of solder pins per potential: 2, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: Engagement nose, type of packaging: packed in cardboard

IMCV 1,5/ 8-G-3,5 RN P20 THR - PCB header

1830922 https://www.phoenixcontact.com/us/products/1830922



PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 8, number of rows: 1, number of positions: 8, number of connections: 8, product range: IMCV 1,5/.-G-RN-THR, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 1.9 mm, number of solder pins per potential: 2, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: Engagement nose, type of packaging: packed in cardboard

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com