

# Printed-circuit board connector - IFMC 1,5/ 2-ST-3,5-RN - 1844109

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Plug component, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 2, pitch: 3.5 mm, connection method: Push-in spring connection, color: green, contact surface: Tin



The figure shows a 10-position version of the product

## Why buy this product

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Intuitive use through colour coded actuation lever
- Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- Intuitive locking mechanism prevents accidental disconnection



## Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
GTIN	
GTIN	4046356947459
Weight per Piece (excluding packing)	1.600 g
Custom tariff number	85366990
Country of origin	Slovakia

## Technical data

### Item properties

Brief article description	Printed-circuit board connector
Range of articles	IFMC 1,5/..-ST-RN
Pitch	3.5 mm

# Printed-circuit board connector - IFMC 1,5/ 2-ST-3,5-RN - 1844109

## Technical data

### Item properties

Type of contact	Male connector
Plug-in system	MINI COMBICON
Number of positions	2
Connection method	Push-in spring connection
Locking	Engagement nose
Number of levels	1

### Electrical parameters

Rated current	8 A
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

### Connection capacity

Conductor cross section solid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG / kcmil	24 ... 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
Stripping length	10 mm

### Specifications for ferrules

Ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.25 mm <sup>2</sup> ; Length: 5 mm ... 7 mm
	Cross section: 0.34 mm <sup>2</sup> ; Length: 7 mm
	Cross section: 0.5 mm <sup>2</sup> ; Length: 8 mm ... 10 mm
	Cross section: 0.75 mm <sup>2</sup> ; Length: 8 mm ... 10 mm
	Cross section: 1 mm <sup>2</sup> ; Length: 8 mm ... 10 mm
Ferrules with insulating collar, according to DIN 46228-4	Cross section: 1.5 mm <sup>2</sup> ; Length: 10 mm
	Cross section: 0.14 mm <sup>2</sup> ; Length: 8 mm
	Cross section: 0.34 mm <sup>2</sup> ; Length: 8 mm ... 10 mm
	Cross section: 0.5 mm <sup>2</sup> ; Length: 8 mm ... 10 mm
	Cross section: 0.75 mm <sup>2</sup> ; Length: 10 mm

### 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)

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## Technical data

### Material data - housing

Housing color	green
Insulating material	PA
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

### Material data – actuating element

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

### Dimensions for the product

Length [ l ]	24.6 mm
Width [ w ]	10.6 mm
Height [ h ]	7.8 mm
Pitch	3.5 mm
Dimension a	3.5 mm

### Packaging information

Type of packaging	packed in cardboard
Pieces per package	50
Denomination packing units	Pcs.

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C

### Air clearances and creepage distances

Insulating material group	I
Comparative tracking index (IEC 60112:2003-01)	CTI 600
Voltage	160 V
Rated insulation voltage (III/3)	160 V
Rated insulation voltage (III/2)	160 V
Rated insulation voltage (II/2)	320 V
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Minimum clearance - inhomogeneous field (III/3)	1.5 mm
Minimum clearance - inhomogeneous field (III/2)	1.5 mm
Minimum clearance - inhomogeneous field (II/2)	1.5 mm

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## Technical data

### Air clearances and creepage distances

Minimum creepage distance value (III/3)	2 mm
Minimum creepage distance value (III/2)	1.5 mm
Minimum creepage distance value (II/2)	1.6 mm

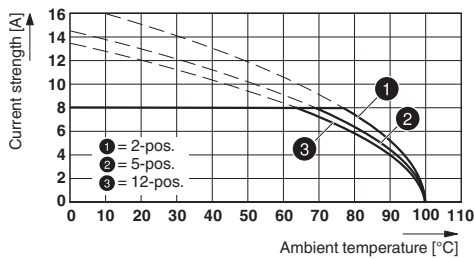
### Current carrying capacity / derating curves

### Environmental Product Compliance

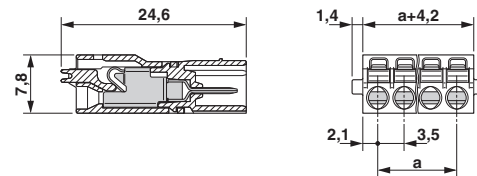
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Diagram



Dimensional drawing



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

## Classifications

### eCl@ss

eCl@ss 5.1	27260701
eCl@ss 6.0	27261101
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

### ETIM

ETIM 5.0	EC002637
ETIM 6.0	EC002638

### UNSPSC

UNSPSC 13.2	39121409
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## Approvals

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# Printed-circuit board connector - IFMC 1,5/ 2-ST-3,5-RN - 1844109

## Approvals

### Approvals

cULus Recognized / VDE Gutachten mit Fertigungsüberwachung / IECEE CB Scheme / EAC

### Ex Approvals

### Approval details

cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E60425-19920306
		B	C
mm <sup>2</sup> /AWG/kcmil		24-16	24-16
Nominal current I <sub>N</sub>		8 A	8 A
Nominal voltage U <sub>N</sub>		150 V	50 V

VDE Gutachten mit Fertigungsüberwachung		<a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a>	40011723
mm <sup>2</sup> /AWG/kcmil		0.2-1.5	
Nominal current I <sub>N</sub>		8 A	
Nominal voltage U <sub>N</sub>		160 V	

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-59621-B1B2
mm <sup>2</sup> /AWG/kcmil		0.2-1.5	
Nominal current I <sub>N</sub>		8 A	
Nominal voltage U <sub>N</sub>		160 V	

EAC			B.01742
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## Printed-circuit board connector - IFMC 1,5/ 2-ST-3,5-RN - 1844109

### Accessories

#### Accessories

#### Connector

Ferrule - A 0,25- 5 - 3202465



Ferrule, sleeve length: 5 mm, length: 5 mm, color: silver

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Ferrule - A 0,25- 7 - 3202478



Ferrule, sleeve length: 7 mm, length: 7 mm, color: silver

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Ferrule - A 0,34- 7 - 3009202



Ferrule, sleeve length: 7 mm, length: 7 mm, color: silver

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Ferrule - A 0,5 - 8 - 3202481



Ferrule, sleeve length: 8 mm, length: 8 mm, color: silver

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Ferrule - A 0,5 -10 - 3202494



Ferrule, sleeve length: 10 mm, length: 10 mm, color: silver

## Printed-circuit board connector - IFMC 1,5/ 2-ST-3,5-RN - 1844109

### Accessories

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Ferrule - A 0,75- 8 - 3202504



Ferrule, sleeve length: 8 mm, length: 8 mm, color: silver

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Ferrule - A 0,75-10 - 3200234



Ferrule, sleeve length: 10 mm, length: 10 mm, color: silver

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Ferrule - A 1 - 8 - 3202517



Ferrule, sleeve length: 8 mm, length: 8 mm, color: silver

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Ferrule - A 1 -10 - 3200250



Ferrule, sleeve length: 10 mm, length: 10 mm, color: silver

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Ferrule - A 1,5 -10 - 3200276



Ferrule, sleeve length: 10 mm, length: 10 mm, color: silver

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## Printed-circuit board connector - IFMC 1,5/ 2-ST-3,5-RN - 1844109

### Accessories

Ferrule - AI 0,14- 8 GY -1000 - 3203011



Ferrule, sleeve length: 8 mm, length: 12.5 mm, color: gray

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Ferrule - AI 0,34- 8 TQ - 3203066



Ferrule, sleeve length: 8 mm, length: 12.5 mm, color: turquoise

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Ferrule - AI 0,34-10 TQ - 3241129



Ferrule, sleeve length: 10 mm, length: 14.5 mm, color: turquoise

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Ferrule - AI 0,5 - 8 WH - 3200014



Ferrule, sleeve length: 8 mm, length: 14 mm, color: white

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Ferrule - AI 0,5 -10 WH - 3201275



Ferrule, sleeve length: 10 mm, length: 16 mm, color: white

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## Printed-circuit board connector - IFMC 1,5/ 2-ST-3,5-RN - 1844109

### Accessories

Ferrule - AI 0,75- 8 GY - 3200519



Ferrule, sleeve length: 8 mm, length: 14 mm, color: gray

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Ferrule - AI 0,75-10 GY - 3201288



Ferrule, sleeve length: 10 mm, length: 16 mm, color: gray

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Ferrule - AI 0,25- 8 YE - 3203037



Ferrule, sleeve length: 8 mm, length: 12.5 mm, color: yellow

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### Crimping tool

Crimping pliers - CRIMPFOX 6 - 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 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp

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### Marker pen

Marker pen - B-STIFT - 1051993



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

## Printed-circuit board connector - IFMC 1,5/ 2-ST-3,5-RN - 1844109

### Accessories

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#### Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 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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#### Terminal marking

Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm

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Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm

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#### Additional products

Printed-circuit board connector - FMC 1,5/ 2-ST-3,5-RF - 1952021



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