

1853104

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 4, product range: TMSTBP 2,5/..-STF, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard, The plug allows conductors to be looped through from module to module.

## Your advantages

- · Well-known connection principle allows worldwide use
- · Screwable flange for superior mechanical stability
- · Quick and convenient testing using integrated test option
- · Allows connection of two conductors
- · Potentials can be easily looped through ideal for BUS applications

#### Commercial data

Item number	1853104
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA03
Product key	AACAGO
Catalog page	Page 271 (C-1-2013)
GTIN	4017918109301
Weight per piece (including packing)	7.94 g
Weight per piece (excluding packing)	7.94 g
Customs tariff number	85366990
Country of origin	PL



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## Technical data

## Product properties

Туре	Bus plug component
Product line	COMBICON Connectors M
Product type	PCB connector
Product family	TMSTBP 2,5/STF
Number of positions	2
Pitch	5.08 mm
Number of connections	4
Number of rows	1
Mounting flange	Screw flange
Number of potentials	2

## Electrical properties

Nominal current I <sub>N</sub>	12 A
Nominal voltage U <sub>N</sub>	320 V
Degree of pollution	3
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

## Connection data

### Connection technology

Туре	Bus plug component
Connector system	COMBICON MSTB 2,5
Nominal cross section	2.5 mm <sup>2</sup>
Contact connection type	Socket

#### Interlock

Locking type	Screw locking mechanism
Mounting flange	Screw flange
Tightening torque	0.3 Nm

#### Conductor connection

Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 2.5 mm²



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sleeve		
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 2.5 mm²	
2 conductors with same cross section, solid	0.2 mm <sup>2</sup> 1 mm <sup>2</sup>	
2 conductors with same cross section, flexible	0.2 mm <sup>2</sup> 1.5 mm <sup>2</sup>	
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> 1 mm <sup>2</sup>	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²	
Stripping length	7 mm	
Tightening torque	0.5 Nm 0.6 Nm	
Specifications for ferrules without insulating collar		
recommended crimping tool	1212034 CRIMPFOX 6	
Specifications for ferrules with insulating collar		
recommended crimping tool	1212034 CRIMPFOX 6	

## 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 (5 - 7 μm Sn)
Metal surface contact area (top layer)	Tin (5 - 7 μm Sn)

#### Material data - housing

Color (Housing)	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	h
Pitch	5.08 mm
Width [w]	20.08 mm



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	Height [h]	28.9 mm		
	Length [I]	21.5 mm		
М	Mounting			
	Drive form screw head	Slotted (L)		
	Drive form screw head	Slotted (L)		
Flange				
	Tightening torque	0.3 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.		

#### Environmental and real-life conditions

#### 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

#### Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	I I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

## Packaging specifications

Type of packaging	packed in cardboard
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## Classifications

#### **ECLASS**

	ECLASS-11.0	27460202		
	ECLASS-12.0	27460202		
	ECLASS-13.0	27460202		
ETIM				
	ETIM 9.0	EC002638		
UNSPSC				
	UNSPSC 21.0	39121400		



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## Environmental product compliance

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

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