

1795653

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, contact surface: Tin, contact connection type: Socket, number of potentials: 12, number of rows: 1, number of positions: 12, number of connections: 12, product range: MSTB 2,5/..-STF-EX, 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 EX, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Screwable flange for superior mechanical stability
- · Satisfies the more stringent safety requirements of "Ex eb" protection according to IEC 60079-7 for potentially explosive areas
- · Allows connection of two conductors

Commercial data

Item number	1795653	
Packing unit	50 pc	
Minimum order quantity	50 pc	
Note	Made to order (non-returnable)	
Sales key	AA03	
Product key	AACAGQ	
Catalog page	Page 369 (C-1-2013)	
GTIN	4046356635851	
Weight per piece (including packing)	21.6 g	
Weight per piece (excluding packing)	20.639 g	
Customs tariff number	85366990	
Country of origin	DE	



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Technical data

Product properties

Product type	PCB connector	
Product family	MSTB 2,5/STF-EX	
Product line	COMBICON Connectors M	
Туре	Standard	
Number of positions	12	
Pitch	5.08 mm	
Number of connections	12	
Number of rows	1	
Number of potentials	12	
Mounting flange	Screw flange	

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	176 V
Rated current / conductor cross section	12 A/2.5 mm ²
Degree of pollution	3

Ex data

Ex approval

Identification	0344® II 2GD / Ex eb IIC Gb
EU-type examination certificate	KEMA 10ATEX0196 U
IECEx certificate	IECEx KEM 10.0093U

Connection data

Connection technology

Туре	Standard	
Connector system	COMBICON MSTB 2,5 EX	
Nominal cross section	2.5 mm ²	
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 mm ² 2.5 mm ²	
Conductor cross section flexible	0.2 mm² 2.5 mm²	



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Conductor cross section AWG	24 12	
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 2.5 mm²	
2 conductors with same cross section, solid	0.2 mm² 1 mm²	
2 conductors with same cross section, flexible	0.2 mm ² 1.5 mm ²	
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 1 mm²	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²	
Cylindrical gauge a x b / diameter	2.8 mm x 2.0 mm / 2.4 mm	
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



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Type of packaging

Dimensional drawing	h
Pitch	5.08 mm
Width [w]	70.97 mm
Height [h]	15 mm
Length [I]	18.3 mm
punting	
Drive form screw head	Slotted (L)
Tightening torque	0.3 Nm
otes	
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.

packed in cardboard

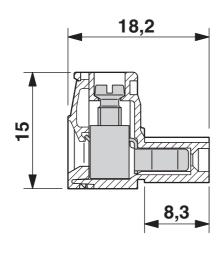


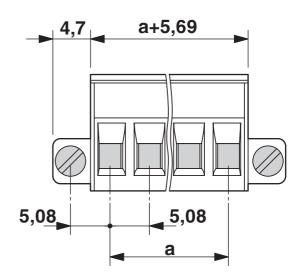
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Drawings

Dimensional drawing







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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1795653

ATEX Approval ID: KEMA 10ATEX0196 U					
	Nom	inal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	176	V	12 A	-	0.2 - 2.5

II (IEĈEx	IECEX Approval ID: IECEx KEM 10.0093U				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		176 V	12 A	-	0.2 - 2.5

EAC Ex Approval ID: B.00065/19



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Classifications

UNSPSC 21.0

ECLASS

27460202				
27460202				
27460202				
ETIM				
EC002638				
UNSPSC				

39121400



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Environmental product compliance

REACH candidate substance (CAS No.)

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					

No substance above 0.1 wt%



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Accessories

CP-MSTB - Coding profile

1734634

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Coding profile, is inserted into the slot on the plug or inverted header, red insulating material



MPS-MT - Test plug

0201744

https://www.phoenixcontact.com/us/products/0201744



Test plug, with solder connection up to 1 mm² conductor cross section, number of positions: 1, color: gray



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RPS - Reducing plug

0201647

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Reducing plug, number of positions: 1, color: gray

SZS 0,6X3,5 - Screwdriver

1205053

https://www.phoenixcontact.com/us/products/1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip



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SK 5,08/3,8:FORTL.ZAHLEN - Marker card

0804293

https://www.phoenixcontact.com/us/products/0804293



Marker card, white, labeled, horizontal: consecutive numbers 1 \dots 10, 11 \dots 20, etc. up to 91 \dots (99)100, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08 x 3.8 mm

SK 5,08/3,8:UNBEDRUCKT - Marker card

0805412

https://www.phoenixcontact.com/us/products/0805412

Marker card, Sheet, white, unlabeled, can be labeled with: Marker pen: without print, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08 x 3.8 mm, Number of individual labels: 120





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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 mm

MSTB 2,5/12-GF-5,08 EX - PCB header

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PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, contact surface: Tin, contact connection type: Pin, number of potentials: 12, number of rows: 1, number of positions: 12, number of connections: 12, product range: MSTB 2,5/..-GF-EX, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.23 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5 EX, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard



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MSTBV 2,5/12-GF-5,08 EX - PCB header

1796429

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PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, contact surface: Tin, contact connection type: Pin, number of rows: 1, number of positions: 12, product range: MSTBV 2,5/..-GF-EX, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.9 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard

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