1709791

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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: 2, product range: MSTB 2,5/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Pull-out aid facilitates handling and allows the tensile force to be reduced at the contact point
- Allows connection of two conductors

Commercial data

Item number	1709791	
Packing unit	50 рс	
Minimum order quantity	50 pc	
Sales key	AA03	
Product key	AACAGC	
Catalog page	Page 263 (C-1-2013)	
GTIN	4046356074384	
Weight per piece (including packing)	4.54 g	
Weight per piece (excluding packing)	4.167 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/ST
Product line	COMBICON Connectors M
Туре	Standard
Number of positions	2
Pitch	5.08 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Mounting flange	without

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	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

connection technology		
Туре	Standard	
Connector system	COMBICON MSTB 2,5	
Nominal cross section	2.5 mm ²	
Contact connection type	Socket	
Interlock		
Locking type	without	
Mounting flange	without	
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 sleeve	0.25 mm² 2.5 mm²	

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	0.25 mm ² 2.5 mm ²	
Conductor cross section, flexible, with ferrule, with plastic sleeve		
2 conductors with same cross section, solid	0.2 mm ² 1 mm ²	
2 conductors with same cross section, flexible	0.2 mm ² 1.5 mm ² 0.25 mm ² 1 mm ² 0.5 mm ² 1.5 mm ²	
2 conductors with same cross section, flexible, with ferrule without plastic sleeve		
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve		
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	
pecifications for ferrules without insulating collar		
recommended crimping tool	1212034 CRIMPFOX 6	
pecifications for ferrules with insulating collar		
recommended crimping tool	1212034 CRIMPFOX 6	
erial specifications aterial data - contact Note		
aterial data - contact Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201	
aterial data - contact	60068-2-82/JEDEC JESD 201 Cu alloy	
aterial data - contact Note Contact material Surface characteristics	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated	
aterial data - contact Note Contact material	60068-2-82/JEDEC JESD 201 Cu alloy	
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer)	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 μm Sn)	
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 μm Sn) Tin (5 - 7 μm Sn)	
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer)	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 μm Sn)	
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing Color (Housing)	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 μm Sn) Tin (5 - 7 μm Sn) green (6021)	
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing Color (Housing) Insulating material	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 μm Sn) Tin (5 - 7 μm Sn) green (6021)	
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Metal surface contact area (top layer) Color (Housing) Insulating material Insulating material group	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 μm Sn) Tin (5 - 7 μm Sn) green (6021) PA I	
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Aterial data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 μm Sn) Tin (5 - 7 μm Sn) green (6021) PA I 600	
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Metal surface contact area (top layer) Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 μm Sn) Tin (5 - 7 μm Sn) green (6021) PA I 600 V0	

Dimensions

Dimensional drawingImage: Constraint of the second sec

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Height [h]	15.5 mm
Length [I]	54.3 mm

Slotted (L)

Mounting

Drive form screw head

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

Specification	IEC 60664-1:2007-04
Insulating material group	1
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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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1709791

CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	15 A	28 - 12	-
Use group D				
	300 V	10 A	28 - 12	-

CULus Recogni Approval ID: E60425	CULus Recognized Approval ID: E60425-19931011				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
Use group B					
	250 V	12 A	30 - 12	-	
Use group D					
	300 V	10 A	30 - 12	-	

VDE Zeichengenehmigung Approval ID: 40050694					
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
	250 V	12 A	-	0.2 - 2.5	

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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

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 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08×3.8 mm

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CP-MSTB - Coding profile

1734634

https://www.phoenixcontact.com/us/products/1734634

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



EBP 2-5 - Insertion bridge

1733169 https://www.phoenixcontact.com/us/products/1733169

Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch



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MSTBW 2,5/ 2-G-5,08 - PCB header

1735882

https://www.phoenixcontact.com/us/products/1735882



PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MSTBW 2,5/..-G, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

MSTBVA 2,5/ 2-G-5,08 - PCB header

1755736 https://www.phoenixcontact.com/us/products/1755736



PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MSTBVA 2,5/..-G, 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: without, mounting: without, type of packaging: packed in cardboard

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MDSTBA 2,5/ 2-GR-5,08 - PCB header

1877614

https://www.phoenixcontact.com/us/products/1877614



PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 10 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 2, number of positions: 2, number of connections: 4, product range: MDSTBA 2,5/..-G, 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, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

MDSTBVA 2,5/ 2-GL-5,08 - PCB header

1877627

https://www.phoenixcontact.com/us/products/1877627



PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 10 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 2, number of positions: 2, number of connections: 4, product range: MDSTBVA 2,5/..-G, 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: without, mounting: without, type of packaging: packed in cardboard, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

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MDSTBVA 2,5/ 2-GR-5,08 - PCB header

1877630

https://www.phoenixcontact.com/us/products/1877630



PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 10 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 2, number of positions: 2, number of connections: 4, product range: MDSTBVA 2,5/..-G, 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: without, mounting: without, type of packaging: packed in cardboard, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

DFK-MSTBA 2,5/ 2-G-5,08 - Feed-through header

1898839

https://www.phoenixcontact.com/us/products/1898839



Feed-through header, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: DFK-MSTBA 2,5/..-G, 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, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

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DFK-MSTBVA 2,5/ 2-G-5,08 - Feed-through header

1899139

https://www.phoenixcontact.com/us/products/1899139



Feed-through header, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: DFK-MSTBVA 2,5/..-G, 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: without, mounting: without, type of packaging: packed in cardboard

CCA 2,5/ 2-G-5,08 P26THR - PCB header

1954919 https://www.phoenixcontact.com/us/products/1954919



PCB headers, nominal cross section: 2.5 mm², color: black, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: CCA 2,5/..-G, pitch: 5.08 mm, connection method: Plug-in connection, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard, For user information and design recommendations for through-hole reflow technology, go to: Downloads

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