

1047898

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PCB connector, nominal cross section: 0.75 mm², color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTCM 0,5/.. -PI, pitch: 2.5 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PTSM, locking: Snap-in locking, mounting: Engagement nose, type of packaging: packed in cardboard

Your advantages

- · High current carrying capacity of 6 A in very compact dimensions
- · Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- · Cost-effective connection of crimped conductors in large quantities
- · Tools for manual and automatic crimping available as an option

Commercial data

Item number	1047898	
Packing unit	250 pc	
Minimum order quantity	250 pc	
Note	Made to order (non-returnable)	
Sales key	AA01	
Product key	AAACPB	
GTIN	4055626649337	
Weight per piece (including packing)	2.3 g	
Weight per piece (excluding packing)	2.22 g	
Customs tariff number	85389099	
Country of origin	DE	



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Technical data

Product properties

Product type	PCB connector	
Product family PTCM 0,5/PI		
Product line	COMBICON Connectors XS	
Number of positions	4	
Pitch	2.5 mm	
Number of connections	4	
Number of rows	1	
Number of potentials	4	

Electrical properties

Nominal current I _N	6 A
Nominal voltage U _N	160 V
Degree of pollution	3
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

Туре	Inverted	
Connector system	COMBICON PTSM	
Nominal cross section	0.75 mm²	
Contact connection type	Pin	

Interlock

Locking type	Snap-in locking
Mounting flange	Engagement nose

Conductor connection

Connection method	Crimp connection	
Conductor/PCB connection direction	0 °	
Conductor cross section flexible	$0.14\ mm^2\ldots 0.75\ mm^2$ (Maximum external diameter of the insulation 1.9 mm)	
Conductor cross section AWG	26 18 (Maximum external diameter of the insulation 1.9 mm)	
Stripping length	4.1 mm 4.5 mm	

Material specifications

Material data - housing



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Color (Housing)	black (9005)
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	2.5 mm	
Width [w]	11.7 mm	
Height [h]	5 mm	
Length [I]	18.3 mm	

Electrical tests

Air clearances and creepage distances |

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

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1047898

cULus Recognized Approval ID: E60425-20101209					
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
Use group B					
	150 V	5 A	22 - 18	-	
Use group D					
	150 V	5 A	22 - 18	-	

VDE Zeichengenehmigung Approval ID: 40048497				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	160 V	6 A	-	0.14 - 0.75



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Classifications

ECLASS

UNSPSC 21.0

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

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

PTCM-MP-PI 0,34-0,75 R - Crimp contact

1013987

https://www.phoenixcontact.com/us/products/1013987



Crimp contact, nominal current: 6 A, contact connection type: Pin, connection method: Crimp connection, contact surface: Tin, type of packaging: Belt

PTCM-MP-PI 0,14-0,5 R - Crimp contact

1013988

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Crimp contact, nominal current: 6 A, contact connection type: Pin, connection method: Crimp connection, contact surface: Tin, type of packaging: Belt



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PTCM-MP-PI 0,34-0,75 - Crimp contact

1013989

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Crimp contact, nominal current: 6 A, contact connection type: Pin, connection method: Crimp connection, contact surface: Tin, type of packaging: Bulk goods

PTCM-MP-PI 0,14-0,5 - Crimp contact

1013990

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Crimp contact, nominal current: 6 A, contact connection type: Pin, connection method: Crimp connection, contact surface: Tin, type of packaging: Bulk goods



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CRIMPFOX-P CC 0.75 L - Crimping pliers

1064998

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Crimping pliers, for COMBICON crimp connectors with cross section: $0.14 \dots 0.75 \text{ mm}^2$. Unlockable pressure lock, precise parallel crimping, front entry, B crimp, incl. 2 positioning aids

PTSM 0,5/4-P-2,5 - PCB connectors

1778858

https://www.phoenixcontact.com/us/products/1778858



PCB connector, nominal cross section: 0.5 mm², color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTSM 0,5/..-P, pitch: 2.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PTSM, locking: without, mounting: without, type of packaging: packed in cardboard



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PTSM 0,5/4-HHI-2,5-SMD R44 - PCB header

1810735

https://www.phoenixcontact.com/us/products/1810735



PCB headers, nominal cross section: 0.5 mm², color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTSM 0,5/..-HHI-SMD, pitch: 2.5 mm, mounting: SMD soldering, pin layout: Linear pad geometry, solder pin [P]: 2 mm, number of solder pins per potential: 1, plug-in system: COMBICON PTSM, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: 44 mm wide tape, Article with anti-rotation pin

PTSM 0,5/4-HHI0-2,5-SMD R44 - PCB header

1815141

https://www.phoenixcontact.com/us/products/1815141



PCB headers, nominal cross section: 0.5 mm², color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTSM 0,5/..-HHI-SMD, pitch: 2.5 mm, mounting: SMD soldering, pin layout: Linear pad geometry, number of solder pins per potential: 1, plug-in system: COMBICON PTSM, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: 44 mm wide tape



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PTSM 0,5/4-HHI1-2,5-THR R32 - PCB header

1810803

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PCB headers, nominal cross section: 0.5 mm², color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTSM 0,5/.-HHI-THR, pitch: 2.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.1 mm, number of solder pins per potential: 1, plug-in system: COMBICON PTSM, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: 32 mm wide tape, Article with anti-rotation pin

PTSM 0,5/4-HHI-2,5-THR R32 - PCB header

1815073

https://www.phoenixcontact.com/us/products/1815073



PCB headers, nominal cross section: 0.5 mm², color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTSM 0,5/..-HHI-THR, pitch: 2.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.1 mm, number of solder pins per potential: 1, plug-in system: COMBICON PTSM, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: 32 mm wide tape



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PTSM 0,5/4-PL-2,5 BK - Printed-circuit board connector

1709444

https://www.phoenixcontact.com/us/products/1709444



PCB connector, nominal cross section: 0.5 mm², color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PTSM 0,5/..-PL, pitch: 2.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PTSM, locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard

PTCM 0,5/4-PL-2,5 BK - Printed-circuit board connector

1048118

https://www.phoenixcontact.com/us/products/1048118



PCB connector, nominal cross section: 0.75 mm², color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of rows: 1, number of positions: 4, product range: PTCM 0,5/..-PL, pitch: 2.5 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PTSM, locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard



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CAC-PTCM1015462/D - Cable

1084513

https://www.phoenixcontact.com/us/products/1084513



Assembled PCB connector / Connecting cable with 2 printed circuit board connectors, rated current: 6 A, cable length: Free input (0.1 ... 3.0 m), Head 1: 4-position , pitch: 2.5 mm , Crimp connection , Socket, Color: white, Cable type:Individual litz wire, PVC, 22 AWG, white, Head 2: 4-position, pitch: 2.5 mm , Crimp connection , Socket, Color: white, Cable type:Individual litz wire, PVC, 20 AWG, white, Individual litz wire, PVC, 22 AWG, white

CAC-PTCM1015462/1015244 - Assembled PCB connectors

1084535

https://www.phoenixcontact.com/us/products/1084535



Assembled PCB connector / Connecting cable with 2 printed circuit board connectors, rated current: 6 A, cable length: Free input (0.1 ... 3.0 m), Head 1: 4-position , pitch: 2.5 mm , Crimp connection , Socket, Color: white, Cable type:Individual litz wire, PVC, 22 AWG, white, Head 2: 4-position, pitch: 2.5 mm , Crimp connection , Pin, Color: white, Cable type:Individual litz wire, PVC, 20 AWG, white, Individual litz wire, PVC, 22 AWG, white

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