

1015463

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PCB connector, nominal cross section: 0.75 mm², color: white, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, 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

Your advantages

- · White design: Stable color when welding and during use
- · High current carrying capacity of 6 A in very compact dimensions
- · Intuitive locking mechanism prevents accidental disconnection
- · Cost-effective connection of crimped conductors in large quantities
- · Tools for manual and automatic crimping available as an option

Commercial data

Item number	1015463
Packing unit	250 pc
Minimum order quantity	250 pc
Note	Made to order (non-returnable)
Sales key	AA01
Product key	AAACPC
GTIN	4055626495965
Weight per piece (including packing)	0.63 g
Weight per piece (excluding packing)	0.626 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/PL
Product line	COMBICON Connectors XS
Number of positions	3
Pitch	2.5 mm
Number of connections	3
Number of rows	1
Number of potentials	3

Electrical properties

Nominal current I _N	6 A
Nominal voltage U _N	160 V
Contact resistance	$2\ m\Omega$
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	Standard
Connector system	COMBICON PTSM
Nominal cross section	0.75 mm²
Contact connection type	Socket

Interlock

Locking type	Snap-in locking
Mounting flange	Self-locking flange

Conductor connection

Connection method	Crimp connection
Conductor/PCB connection direction	0 °
Conductor cross section flexible	0.14 mm ² 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)	white (9010)
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]	16.96 mm
Height [h]	3.9 mm
Length [I]	16.2 mm

Mechanical tests

Tensile strength of crimp connections

Result	Test passed
Conductor cross section/conductor type/tractive force setpoint/actual value	0.14 mm² / flexible / > 18 N

Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	3 N
Withdraw strength per pos. approx.	2 N

Resistance of inscriptions

Specification	IEC 60068-2-70:1995-12
Result	Test passed

Polarization and coding

Specification	IEC 60512-13-5:2006-02
Result	Test passed

Visual inspection

visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed



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Specification	IEC 60512-1-2:2002-02
Result	Test passed

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	2 mΩ
Contact resistance R ₂	2.1 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ

Climatic test

Specification	ISO 6988:1985-02	
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 dm 3 /40 °C/1 cycle	
Thermal stress	105 °C/168 h	
Power-frequency withstand voltage	1.39 kV	

Ambient conditions

Ambient temperature (operation)	-40 °C 105 °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

Thermal test | Test group C

memarites () set group e	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	8
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

Air clearances and creepage distances I

Air clearances and creepage distances		
Specification	IEC 60664-1:2007-04	
Insulating material group	I	



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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

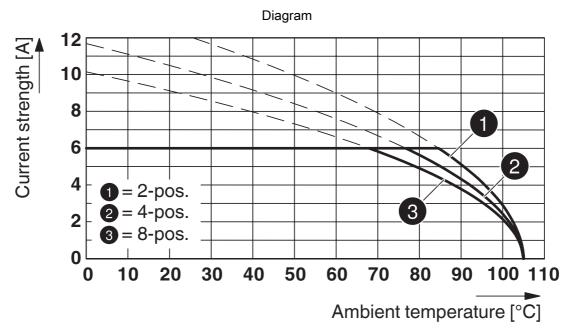
Type of packaging	packed in cardboard
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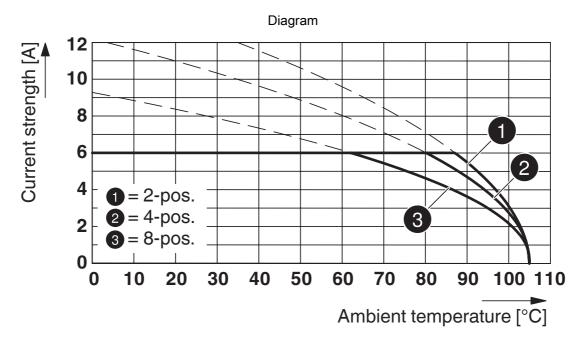
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Drawings



Type: PTCM 0,5/...-PL-2,5 WH with PTCM 0,5/...-PI-2,5 WH

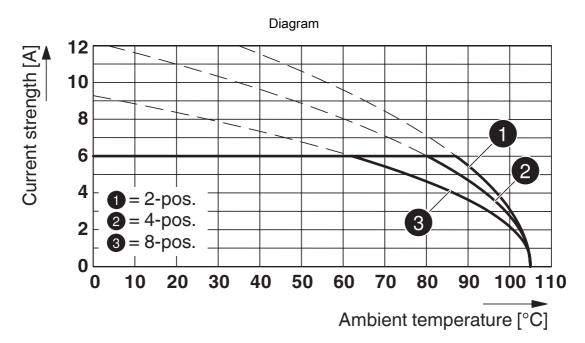


Type: PTCM 0,5/...-PL-2,5 WH with PTSM 0,5/...-HH-2,5-THR WH R...



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Type: PTCM 0,5/...-PL-2,5 WH with PTSM 0,5/...-HH(0)-2,5-SMD WH R...



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1015463

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	6 A	22 - 18	-
Use group D				
	150 V	6 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

UNSPSC 21.0

ECLASS

27460202				
27460202				
27460202				
ETIM				
EC002638				
UNSPSC				

39121400



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Environmental product compliance

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-P 0,34-0,75 R - Crimp contact

1013777

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

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

1013778

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



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

1013780

https://www.phoenixcontact.com/us/products/1013780



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

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

1013781

https://www.phoenixcontact.com/us/products/1013781



Crimp contact, nominal current: 6 A, contact connection type: Socket, 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

https://www.phoenixcontact.com/us/products/1064998



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/ 3-HH0-2,5-SMD WH R32 - PCB header

1814922

https://www.phoenixcontact.com/us/products/1814922



PCB headers, nominal cross section: 0.5 mm², color: signal white, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PTSM 0,5/..-HH-SMD WH, 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: 32 mm wide tape



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PTSM 0,5/3-HV-2,5-SMD WH R44 - PCB header

1778706

https://www.phoenixcontact.com/us/products/1778706



PCB headers, nominal cross section: 0.5 mm², color: signal white, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PTSM 0,5/..-HV-SMD WH, 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/ 3-HV0-2,5-SMD WH R44 - PCB header

1839208

https://www.phoenixcontact.com/us/products/1839208



PCB headers, nominal cross section: 0.5 mm², color: signal white, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PTSM 0,5/..-HV-SMD WH, 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 0,5/3-HTB-2,5-SMD WH R44 - PCB header

1830139

https://www.phoenixcontact.com/us/products/1830139



PCB headers, nominal cross section: 0.5 mm², color: signal white, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PTSM 0,5/..-HTB-SMD WH, 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

PTSM 0,5/3-HH-2,5-THR WH R32 - PCB header

1814854

https://www.phoenixcontact.com/us/products/1814854



PCB headers, nominal cross section: 0.5 mm², color: signal white, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PTSM 0,5/..-HH-THR WH, 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/ 3-HV-2,5-THR WH R32 - PCB header

1815277

https://www.phoenixcontact.com/us/products/1815277



PCB headers, nominal cross section: 0.5 mm², color: signal white, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PTSM 0,5/..-HV-THR WH, pitch: 2.5 mm, mounting: THR soldering, pin layout: Linear pinning, 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: 32 mm wide tape

PTSM 0,5/ 3-PI-2,5 WH - PCB connectors

1709451

https://www.phoenixcontact.com/us/products/1709451



PCB connector, nominal cross section: $0.5~\mathrm{mm}^2$, color: white, nominal current: $6~\mathrm{A}$, rated voltage (III/2): $160~\mathrm{V}$, contact surface: Tin, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PTSM $0.5/..-\mathrm{PI}$ WH, pitch: $2.5~\mathrm{mm}$, connection method: Push-in spring connection, conductor/PCB connection direction: $0~^\circ$, plug-in system: COMBICON PTSM, locking: without, mounting: without, type of packaging: packed in cardboard



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PTSM 0,5/ 3-HH-2,5-SMD WH R32 - PCB header

1708005

https://www.phoenixcontact.com/us/products/1708005



PCB headers, nominal cross section: 0.5 mm², color: signal white, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PTSM 0,5/..-HH-SMD WH, 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: 32 mm wide tape, Article with anti-rotation pin

PTCM 0,5/ 3-PI-2,5 WH - PCB connectors

1015243

https://www.phoenixcontact.com/us/products/1015243



PCB connector, nominal cross section: 0.75 mm², color: white, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, 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



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CAC-PTCM1015463/D - Cable

1084515

https://www.phoenixcontact.com/us/products/1084515



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: 3-position , pitch: 2.5 mm , Crimp connection , Socket, Color: white, Cable type:Individual litz wire, PVC, 22 AWG, white, Head 2: 3-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-PTCM1015463/1015243 - Assembled PCB connectors

1084534

https://www.phoenixcontact.com/us/products/1084534



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: 3-position , pitch: 2.5 mm , Crimp connection , Socket, Color: white, Cable type:Individual litz wire, PVC, 22 AWG, white, Head 2: 3-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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