1015461

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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: 5, number of rows: 1, number of positions: 5, number of connections: 5, 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	1015461
Packing unit	100 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	AA01
Product key	AAACPC
GTIN	4055626496443
Weight per piece (including packing)	0.872 g
Weight per piece (excluding packing)	0.862 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	5
Pitch	2.5 mm
Number of connections	5
Number of rows	1
Number of potentials	5

Electrical properties

Nominal current I _N	6 A
Nominal voltage U _N	160 V
Contact resistance	2 mΩ
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 mm ²	
Contact connection type	Socket	
nterlock		
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 mm² 0.75 mm² (Maximum external dissulation 1.9 mm)		
Conductor cross section AWG	26 18 (Maximum external diameter of the insulation 1.9 mm)	

Material specifications

Material data - housing



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Color (Housing)	white (9010)
Insulating material	PA
Insulating material group	1
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]	21.96 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	
Specification	IEC 60512-1-1:2002-02
Result	Test passed



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Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
vironmental 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
Durahilihu taat	
Durability test Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	2.00 κγ
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 dm ³ SO 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
ectrical tests	
Thermal test Test group C	
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	
Specification	IEC 60664-1:2007-04
Insulating material group	



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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

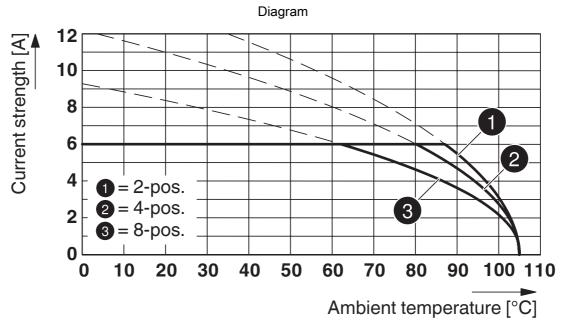
packed in cardboard



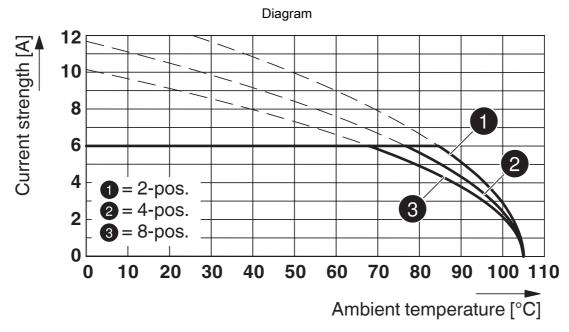
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Drawings



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

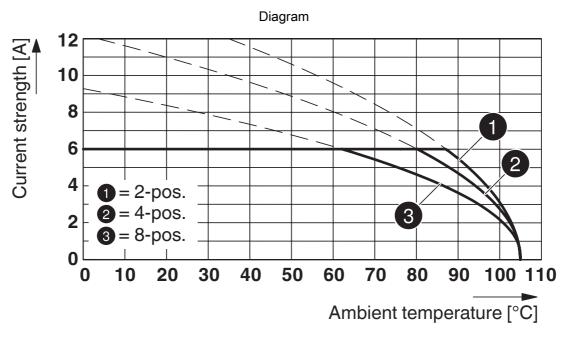


Type: PTCM 0,5/...-PL-2,5 WH with PTCM 0,5/...-PI-2,5 WH



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



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1015461

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

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

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

1013777 https://www.phoenixcontact.com/us/products/1013777



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 https://www.phoenixcontact.com/us/products/1013778



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

1015461

https://www.phoenixcontact.com/us/products/1015461



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 ... 0. 75 mm^2 . Unlockable pressure lock, precise parallel crimping, front entry, B crimp, incl. 2 positioning aids

PTSM 0,5/ 5-HH0-2,5-SMD WH R32 - PCB header

1814948

https://www.phoenixcontact.com/us/products/1814948



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: 5, number of rows: 1, number of positions: 5, number of connections: 5, 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

1015461

https://www.phoenixcontact.com/us/products/1015461



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

1778722

https://www.phoenixcontact.com/us/products/1778722



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: 5, number of rows: 1, number of positions: 5, number of connections: 5, 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/ 5-HV0-2,5-SMD WH R44 - PCB header

1839224

https://www.phoenixcontact.com/us/products/1839224



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: 5, number of rows: 1, number of positions: 5, number of connections: 5, 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

1015461

https://www.phoenixcontact.com/us/products/1015461



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

1830155

https://www.phoenixcontact.com/us/products/1830155



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: 5, number of rows: 1, number of positions: 5, number of connections: 5, 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/ 5-HH-2,5-THR WH R32 - PCB header

1814870

https://www.phoenixcontact.com/us/products/1814870



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: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: PTSM 0,5/..-HH-THR WH, pitch: 2.5 mm, mounting: THR soldering / wave 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

1015461

https://www.phoenixcontact.com/us/products/1015461



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

1815293

https://www.phoenixcontact.com/us/products/1815293



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: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: PTSM 0,5/..-HV-THR WH, pitch: 2.5 mm, mounting: THR soldering / wave 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/ 5-PI-2,5 WH - PCB connectors

1709453 https://www.phoenixcontact.com/us/products/1709453



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

1015461

https://www.phoenixcontact.com/us/products/1015461



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

1708008

https://www.phoenixcontact.com/us/products/1708008



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: 5, number of rows: 1, number of positions: 5, number of connections: 5, 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/ 5-PI-2,5 WH - PCB connectors

1015245 https://www.phoenixcontact.com/us/products/1015245



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: 5, number of rows: 1, number of positions: 5, number of connections: 5, 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

1015461

https://www.phoenixcontact.com/us/products/1015461



CAC-PTCM1015461/D - Cable

1084517

https://www.phoenixcontact.com/us/products/1084517



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: 5-position , pitch: 2.5 mm , Crimp connection , Socket, Color: white, Cable type:Individual litz wire, PVC, 22 AWG, white, Head 2: 5-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-PTCM1015461/1015245 - Assembled PCB connectors

1084544

https://www.phoenixcontact.com/us/products/1084544



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: 5-position , pitch: 2.5 mm , Crimp connection , Socket, Color: white, Cable type:Individual litz wire, PVC, 22 AWG, white, Head 2: 5-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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