

1015463

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PCB connector, nominal cross section: 0.75 mm<sup>2</sup>, color: white, nominal current: 6 A, rated voltage (III/2): 160 V, 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 method: Latching 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
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

#### **Properties**

Nominal current I <sub>N</sub>	6 A
Nominal voltage U <sub>N</sub>	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 mm²
Contact connection type	Socket

#### Interlock

Locking type	Snap-in locking
Mounting flange	Latching flange

#### Conductor connection

Connection method	Crimp connection
Conductor/PCB connection direction	0 °
Conductor cross section flexible	0.14 mm <sup>2</sup> 0.75 mm <sup>2</sup> (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



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#### Material data - contact

Metal surface contact area (top layer)	Tin (Sn)
Material data - housing	
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

Result

### Tensile strength of crimp connections

Conductor cross section/conductor type/tractive force setpoint/actual value	0.14 mm² / flexible / > 18 N
nsertion and withdrawal forces	
Specification	IEC 60512-13-2:2006-02
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	3 N
Withdraw strength per pos. approx.	2 N

Test passed

#### Resistance of inscriptions

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

#### Polarization and coding

Specification	IEC 60512-13-5:2006-02



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Result	Test passed
Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
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
Test directions	X-, Y- and Z-axis

#### Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R <sub>1</sub>	2 mΩ
Contact resistance R <sub>2</sub>	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 <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /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

Specification	C 60512-5-1:2002-02
Tested number of positions 8	

#### Insulation resistance



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Type of packaging

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
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

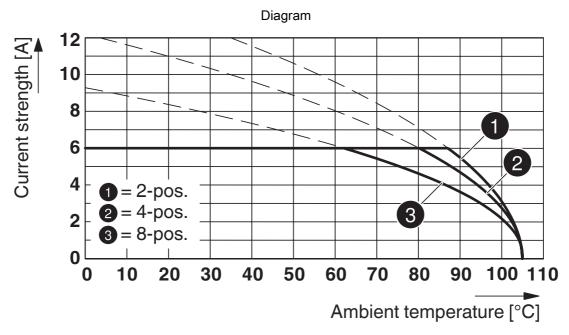
packed in cardboard



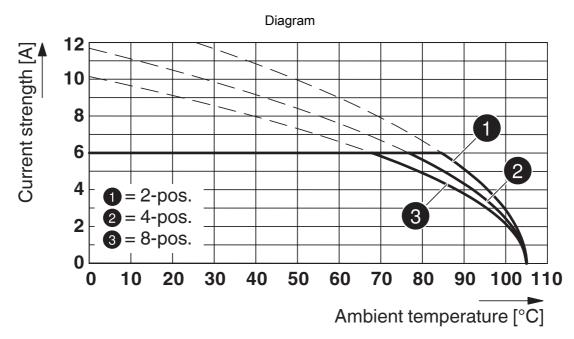
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### **Drawings**



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

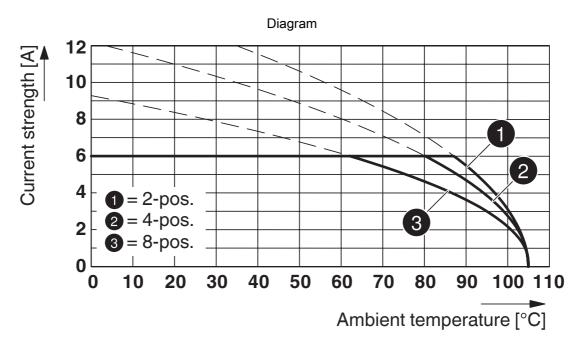


Type: PTCM 0,5/...-PL-2,5 WH with PTCM 0,5/...-PI-2,5 WH



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



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### **Approvals**

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CULus Recognized Approval ID: E60425-20101209				
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	150 V	6 A	22 - 18	-
Use group D				
	150 V	6 A	22 - 18	-

VDE approval of drawings Approval ID: 40048497				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	160 V	6 A	-	0.14 - 0.75



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### Classifications

UNSPSC 21.0

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		A.7.7

	ECLASS-13.0	27460202
ΕΊ	ТМ	
	ETIM 9.0	EC002638
U	ISPSC	

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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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