

1982376

https://www.phoenixcontact.com/us/products/1982376

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PCB headers, nominal cross section: 2.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Pin, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: MSTBO 2,5/..-GL, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.2 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Orthogonal, locking: without, mounting method: without, type of packaging: packed in cardboard

Your advantages

- · Well-known mounting principle allows worldwide use
- · Can be combined with the MSTB 2,5 range
- · Maximum flexibility when it comes to device design one header for connectors with different connection technologies

Commercial data

Item number	1982376
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA03
Product key	AACSKA
GTIN	4017918954994
Weight per piece (including packing)	5.406 g
Weight per piece (excluding packing)	5.386 g
Customs tariff number	85366930
Country of origin	PL



1982376

https://www.phoenixcontact.com/us/products/1982376

Technical data

Product properties

Product type	PCB headers
Product family	MSTBO 2,5/GL
Product line	COMBICON Connectors M
Number of positions	6
Pitch	5.08 mm
Number of connections	6
Number of rows	1
Number of potentials	6
Mounting flange	without
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Properties

Nominal current I _N	8 A
Nominal voltage U _N	320 V
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

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

Material specifications

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	hot-dip tin-plated
Metal surface contact area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)

Material data - housing

iviaterial data - nousing	
Color (Housing)	black (9005)
Insulating material	PA
Insulating material group	I



1982376

https://www.phoenixcontact.com/us/products/1982376

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

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.

Dimensions

Dimensional drawing	P h
Pitch	5.08 mm
Width [w]	8.6 mm
Height [h]	30.48 mm
Length [I]	49.14 mm
Installed height	30.48 mm
Solder pin length [P]	3.2 mm
Pin dimensions	0.32 x 1.2 mm
PCB design	
Hole diameter	1.3 mm

Electrical tests

Air clearances and creepage distances |

Insulating material group	I
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

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



1982376

https://www.phoenixcontact.com/us/products/1982376

Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
Packaging specifications	

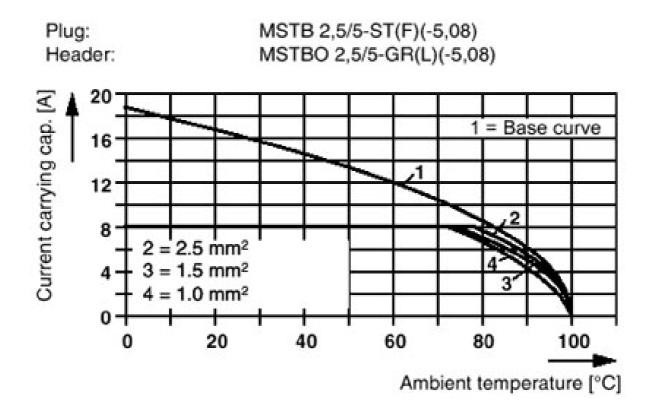


1982376

https://www.phoenixcontact.com/us/products/1982376

Drawings

Diagram





1982376

https://www.phoenixcontact.com/us/products/1982376

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1982376

CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	6.5 A	-	-
Use group D				
	300 V	6.5 A	-	-

CULus Recogni Approval ID: E60425	CULus Recognized Approval ID: E60425-20050718			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	250 V	8 A	-	-
Use group D				
	300 V	8 A	-	-

VDE approval of di Approval ID: 40050648	VDE approval of drawings Approval ID: 40050648				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²	
	250 V	8 A	-	-	



1982376

https://www.phoenixcontact.com/us/products/1982376

Classifications

ECLASS

	ECLASS-13.0	27460201
	ECLASS-15.0	27460201
ET	IM	
	ETIM 9.0	EC002637
UN	ISPSC	

UNSPSC 21.0 39121400



1982376

https://www.phoenixcontact.com/us/products/1982376

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%
EF3.0 Climate Change	

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com