

# ME-IO-S BUS8-9005 - Bus connector



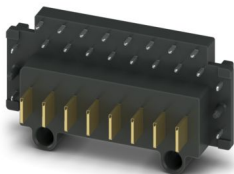
1569885

<https://www.phoenixcontact.com/us/products/1569885>

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56 mm



Plug, color: black, contact surface: Au, number of positions: 8, product range: ME-IO-S., pitch: 3.15 mm, mounting: THR solder connection, pin layout: Linear pinning, solder pin [P]: 1.5 mm, mounting method: without, type of packaging: 56 mm wide tape

## Your advantages

- Contact design enables electronics modules to be easily snapped on
- Power supply and communication without additional wiring
- Direct integration into the module

## Commercial data

Item number	1569885
Packing unit	200 pc
Minimum order quantity	200 pc
Sales key	AC15
Product key	ACHEBF
GTIN	4067923057630
Weight per piece (including packing)	7.915 g
Weight per piece (excluding packing)	7.915 g
Customs tariff number	85366990
Country of origin	CN

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## Technical data

### Notes

Recommendation	Further information and detailed dimensions are available in the download area.
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### Product properties

Product type	Plug
Product family	ME-IO-S..
Number of positions	8
Pitch	3.15 mm
Pin layout	Linear pinning

### Electrical properties

#### Properties

Contact resistance	4 mΩ
Rated voltage (III/3)	24 V
Rated surge voltage (III/3)	0.8 kV
Rated voltage (III/2)	24 V
Rated surge voltage (III/2)	0.8 kV
Rated voltage (II/2)	24 V
Rated surge voltage (II/2)	0.5 kV

### Connection data

Maximum load current	4 A
Connection method	Direct plug-in technology

### Dimensions

Width [w]	15.85 mm
Height [h]	13.55 mm
Length [l]	32 mm
Solder pin length [P]	1.5 mm

### 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	Completely gold-plated
Metal surface terminal point (top layer)	Gold (Au)

#### Material data - housing

Color (Housing)	black (9005)
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## Electrical tests

### Thermal test | Test group C

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

### Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Comparative tracking index (IEC 60112)	CTI 175 - 249
Rated insulation voltage (III/3)	24 V
Rated surge voltage (III/3)	0.8 kV
minimum clearance value - non-homogenous field (III/3)	0.8 mm
minimum creepage distance (III/3)	1.25 mm
Rated insulation voltage (III/2)	24 V
Rated surge voltage (III/2)	0.8 kV
minimum clearance value - non-homogenous field (III/2)	0.2 mm
minimum creepage distance (III/2)	0.5 mm
Rated insulation voltage (II/2)	24 V
Rated surge voltage (II/2)	0.5 kV
minimum clearance value - non-homogenous field (II/2)	0.2 mm
minimum creepage distance (II/2)	0.5 mm

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≤ 500
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## Mechanical tests

### Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	0.8 N
Withdraw strength per pos. approx.	0.6 N

### Contact holder in insert

Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	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

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## Environmental and real-life conditions

### Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	0.91 kV
Contact resistance $R_1$	4 m $\Omega$
Contact resistance $R_2$	3.5 m $\Omega$
Insertion/withdrawal cycles	200

### Climatic test

Specification	EN ISO 22479:2022-06
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	0.5 kV

### Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.15 mm (10 Hz ... 58.1 Hz)
Acceleration	2g (58.1 Hz ... 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis (pos. and neg.)

### Shocks

Specification	IEC 60068-2-27:2008-02
Acceleration	15g
Shock duration	11 ms
Test directions	X-, Y- and Z-axis

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 55 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the derating curve)

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 55 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

## Mounting

Mounting type	THR solder connection
Pin layout	Linear pinning

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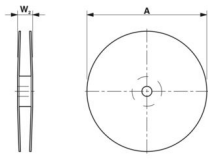
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## Processing notes

Process	Reflow soldering
Moisture Sensitive Level	MSL 1
Classification temperature $T_c$	260 °C
Solder cycles in the reflow	3

## Packaging specifications

Dimensional drawing	
Type of packaging	56 mm wide tape
[W] tape width	56 mm
[W2] coil overall dimension	62.4 mm
[A] coil diameter	380 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07

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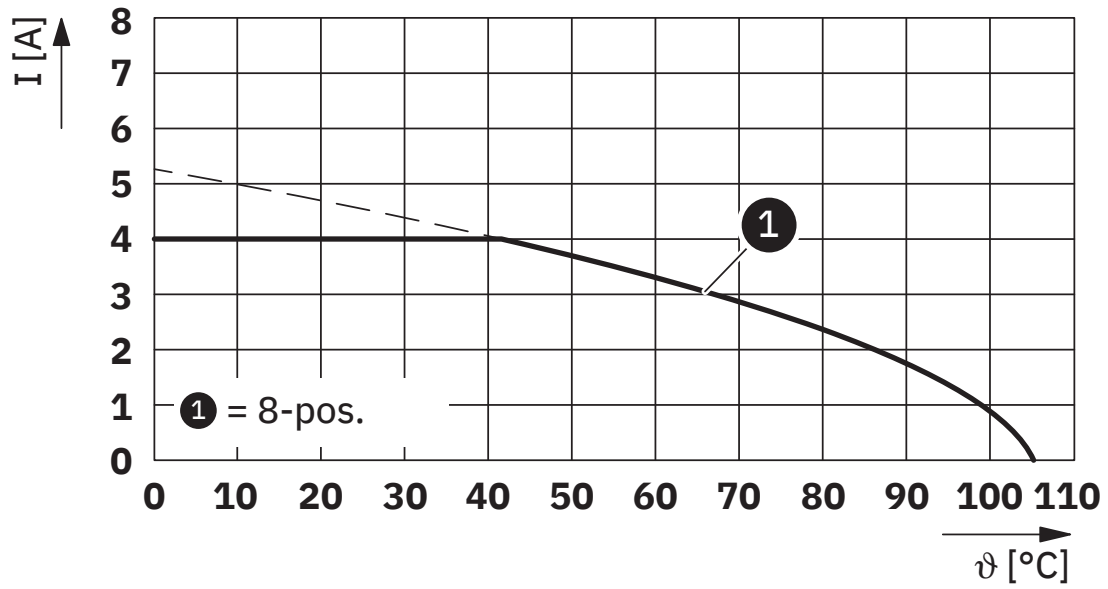


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## Drawings

Diagram



Type: ME-IO-S BUS8

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## Classifications

### ECLASS

ECLASS-13.0	27460202
ECLASS-15.0	27460202

### ETIM

ETIM 10.0	EC002638
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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