

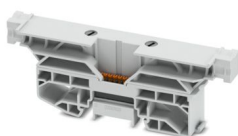
TBUS8-SPL-KIT-7035 - DIN rail bus connector



1488805

<https://www.phoenixcontact.com/us/products/1488805>

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DIN rail bus connector, nominal cross section: 0.5 mm², color: light gray, nominal current: 6 A (parallel contacts), rated voltage (III/2): 32 V, contact surface: Au, contact connection type: Socket, number of potentials: 8, number of positions: 8, number of connections: 8, product range: TBUS8..2,54, pitch: 2.54 mm, connection method: Push-in spring connection, mounting: DIN rail mounting, conductor/PCB connection direction: 0 °, locking: Snap-in locking, mounting method: without, type of packaging: packed in cardboard, Integrated end bracket function

Your advantages

- Input and output of the 8-position bus connection in the module network with ME-IO and ICS housings
- Optimum use of space with orderly cable routing
- Easy marking with a large printing area
- Secure module fixing thanks to integrated end bracket function

Commercial data

Item number	1488805
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AC09
Product key	ACHEDA
GTIN	4063151980719
Weight per piece (including packing)	40.3 g
Weight per piece (excluding packing)	31.44 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Product properties

Product type	DIN rail bus connector
Product family	TBUS8..2,54
Number of positions	8
Pitch	2.54 mm
Number of connections	8
Number of potentials	8
Mounting type	without

Electrical properties

Properties

Nominal current I_N	6 A (parallel contacts)
Nominal voltage U_N	32 V
Contact resistance	4.5 mΩ
Rated voltage (III/3)	32 V
Rated surge voltage (III/3)	1.5 kV
Rated voltage (III/2)	32 V
Rated surge voltage (III/2)	1.5 kV
Rated voltage (II/2)	32 V
Rated surge voltage (II/2)	1.5 kV

Connection data

Connection method	Push-in spring connection
Stripping length	7 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	gold-plated
Metal surface terminal point (top layer)	Tin (Sn)
Metal surface terminal point (middle layer)	Nickel (Ni)
Metal surface contact area (top layer)	Gold (Au)
Metal surface contact area (middle layer)	Nickel (Ni)

Material data - housing

Color (Housing)	light gray (7035)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600

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Flammability rating according to UL 94	V0
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material specifications - connector

Color (Male connector)	black (9005)
Insulating material	LCP
Insulating material group	IIla
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

Material data – actuating element

Color (Actuating element)	orange (2003)
Insulating material	LCP
Insulating material group	IIla
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

Dimensions

Pitch	2.54 mm
Width [w]	18.9 mm
Height [h]	116.6 mm
Length [l]	42.4 mm

Mounting

Mounting type	DIN rail mounting
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Mechanical tests

Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	2.6 N
Withdraw strength per pos. approx.	1.6 N

Environmental and real-life conditions

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	1.75 kV
Contact resistance R ₁	4.5 mΩ
Contact resistance R ₂	4.6 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ

Climatic test

Specification	IEC 61984:2008-10
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	105 °C/168 h

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Power-frequency withstand voltage	0.84 kV
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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	50 m/s ² (60.1 Hz ... 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	30g
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)

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

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
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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	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	32 V
Rated surge voltage (III/3)	1.5 kV
minimum clearance value - non-homogenous field (III/3)	0.8 mm
minimum creepage distance (III/3)	1.3 mm

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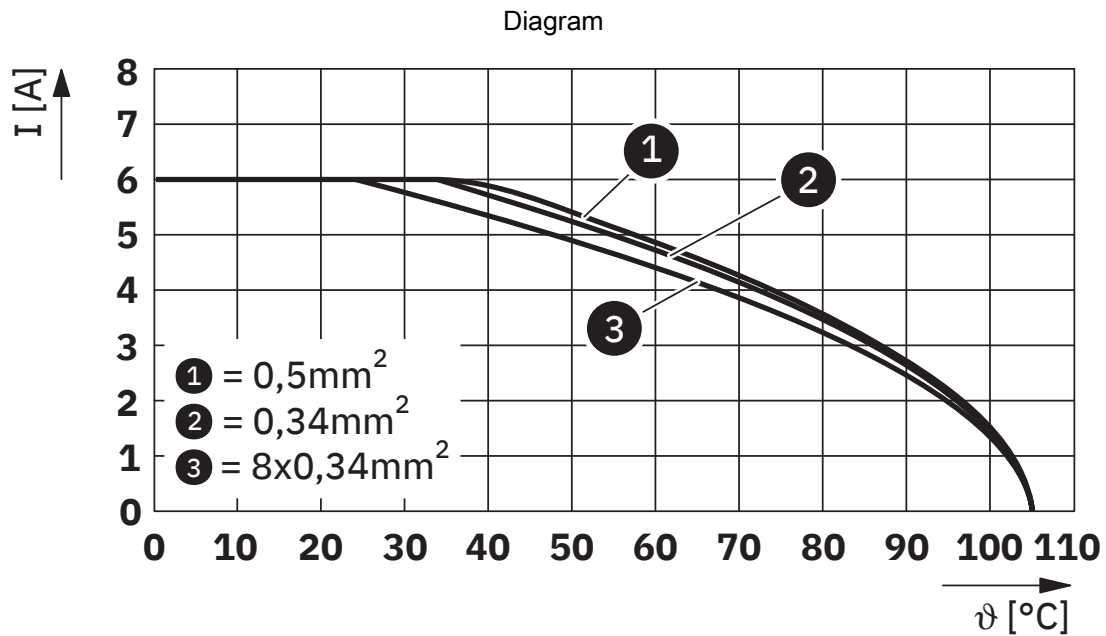
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Rated insulation voltage (III/2)	32 V
Rated surge voltage (III/2)	1.5 kV
minimum clearance value - non-homogenous field (III/2)	0.5 mm
minimum creepage distance (III/2)	0.53 mm
Rated insulation voltage (II/2)	32 V
Rated surge voltage (II/2)	1.5 kV
minimum clearance value - non-homogenous field (II/2)	0.5 mm
minimum creepage distance (II/2)	0.53 mm

Packaging specifications

Type of packaging	packed in cardboard
Outer packaging type	Carton

Drawings



Type: TBUS8-SPL-KIT/TBUS8-TAP-KIT

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1488805>

 cUL Recognized Approval ID: E118976-20151204				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	29.9 V	4 A	- 20	-

 UL Recognized Approval ID: E118976-20151204				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	29.9 V	6 A	- 20	-

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Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 10.0	EC002637
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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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