Cable connector - ST-8EP1N8A8003 - 1613600

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The figure shows the 4-pos. (3+PE) product version

Cable connector, straight, Screw locking, M17, number of positions: 5+3+PE, type of contact: Pin, shielded: yes, cable diameter range: 5 mm ... 8 mm, number of positions: 9, connection method: Crimp connection

Your advantages

- Consistent EMC protection for reliable connection solutions in the industrial environment
- Crimping connection: vibration- and temperature-resistant assembly
- Flexible use: reliably connect various cable diameters
- Molded designs with pre-assembled cables on one or both sides

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 442084
GTIN	4046356442084

Technical data

General

Note	Order information: Order crimp contacts 5 x 0.6 mm, 4 x Ø 1 mm separately
Type of locking	Screw locking
Direction of rotation of contact chamber numbering	Standard
Coding	N
Contact connection method	Crimp connection
Type of contacts	Pin
Number of positions	9
Contact diameter of power contacts	1 mm
Rated current for power contacts	14 A
Contact diameter of signal contacts	0.6 mm

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Technical data

General

Nominal current per signal contact	3.6 A
Conductor entry	5 mm ... 8 mm
Pg housing screw connection	none

Ambient conditions

Ambient temperature	-40 °C ... 125 °C
Degree of protection	IP67

Material

Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)

Specifications according to DIN EN 61984:2001

Installation height max.	2000 m
Nominal / operating voltage of power contacts	630 V
Rated surge voltage of power contacts	6 kV
Overvoltage category of power contacts	III
Degree of pollution of power contacts	3
Nominal / operating voltage of signal contacts	60 V
Rated surge voltage of signal contacts	1.5 kV
Overvoltage category of signal contacts	III
Degree of pollution of signal contacts	3

Standards and Regulations

Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	• Assembled products may not be manipulated or improperly opened.
	• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• For operating voltages > 50 V AC, conductive connector housings must be grounded

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Standards and Regulations

	• Ensure that the protective or functional ground has been properly connected.
	• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
	• Only use tools recommended by Phoenix Contact
	• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	• Operate the connector only when it is fully plugged in and interlocked.
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	• Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

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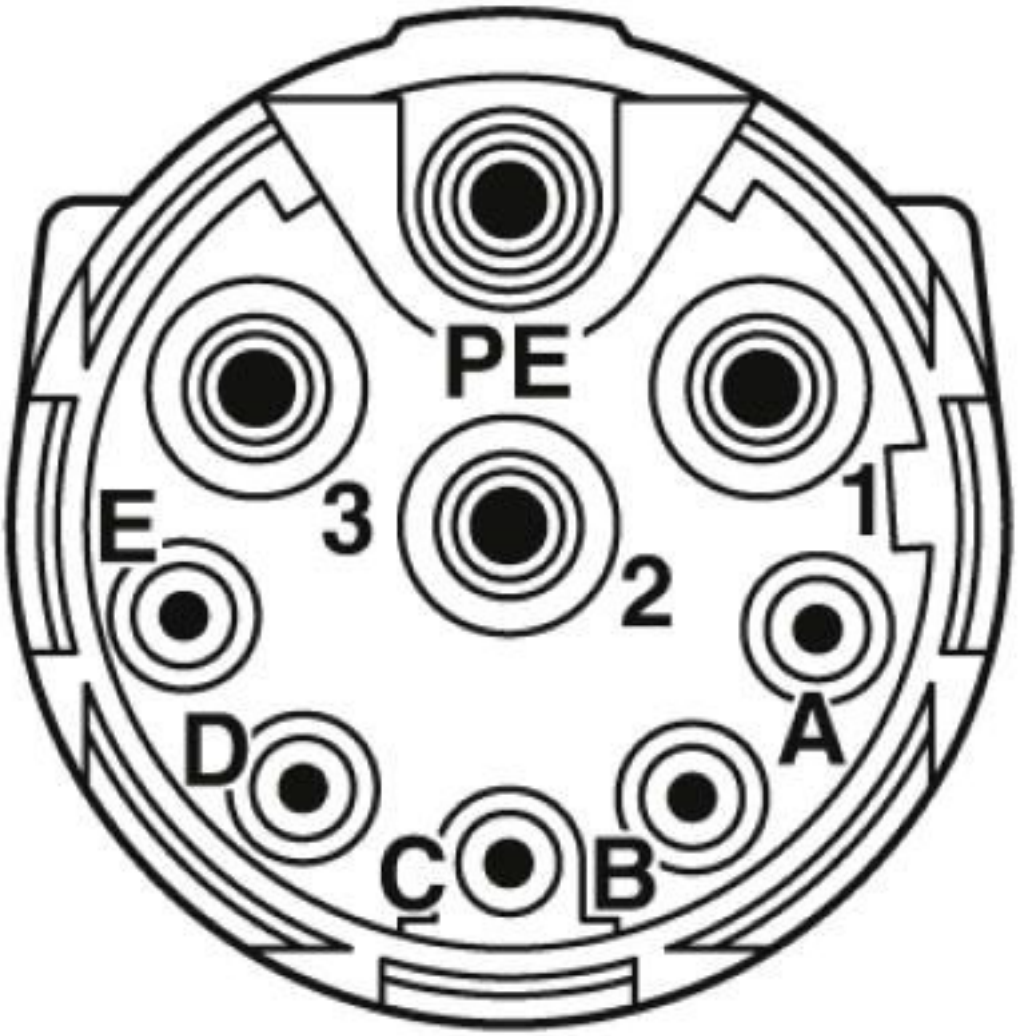
Schematic diagram



Connector pin assignment

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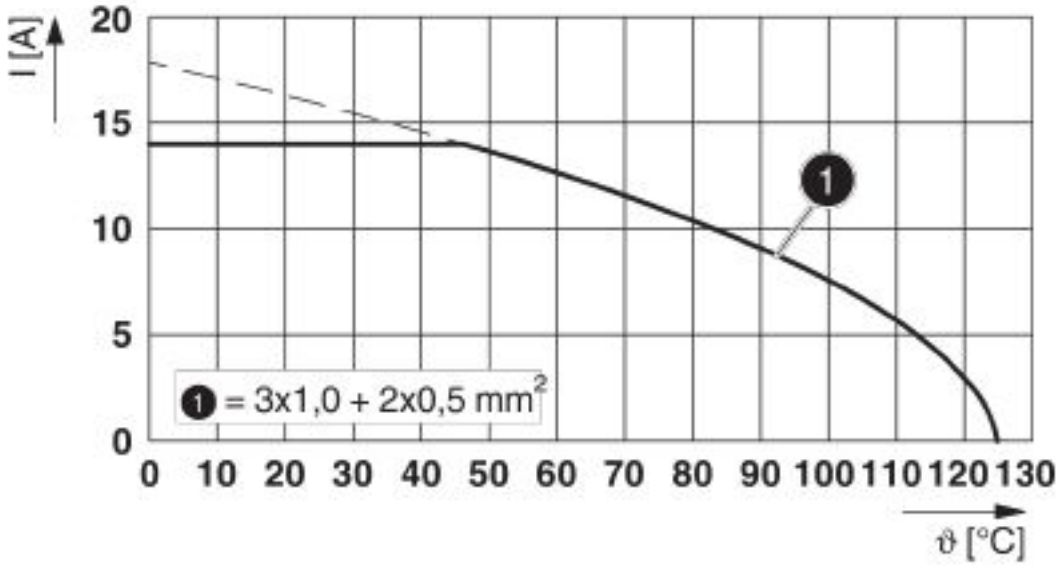
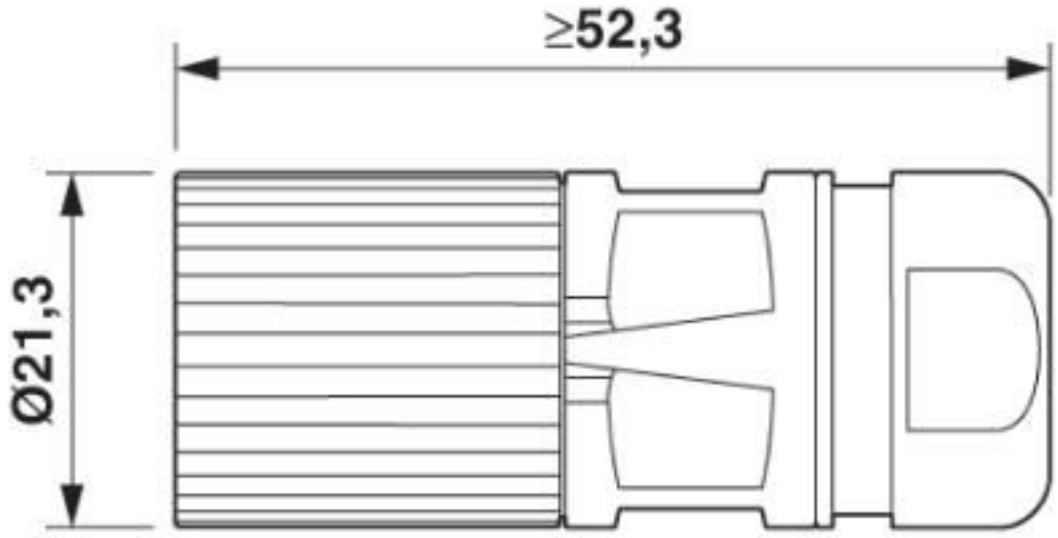
Diagram



I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant

Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700

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Classifications

eCl@ss

eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440102
eCl@ss 8.0	27440102
eCl@ss 9.0	27440102

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC001121
ETIM 5.0	EC002635
ETIM 6.0	EC002061

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	39121413
UNSPSC 18.0	39121413
UNSPSC 19.0	39121413
UNSPSC 20.0	39121413
UNSPSC 21.0	39121413

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 335019

Nominal voltage UN	600 V
Nominal current IN	3.5 A

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Approvals

mm²/AWG/kcmil	20

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 335019

Nominal voltage UN	600 V
Nominal current IN	3.5 A
mm²/AWG/kcmil	20

EAC		B.01687

cULus Recognized	

Accessories

Accessories

Crimp contact

Crimp contact - ST-06KP010 - 1607577

Crimp contact, turned, contact diameter: 0.6 mm, crimp range: 0.06 mm² ... 0.25 mm²

Crimp contact - ST-06KP020 - 1607578

Crimp contact, turned, contact diameter: 0.6 mm, crimp range: 0.14 mm² ... 0.34 mm²

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Accessories

Crimp contact - ST-06KP030 - 1607579

Crimp contact, turned, contact diameter: 0.6 mm, crimp range: 0.34 mm² ... 0.5 mm²

Crimp contact - ST-10KP010 - 1618255

Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 0.06 mm² ... 0.25 mm²

Crimp contact - ST-10KP035 - 1618458

Crimp contact, turned, contact diameter: 1 mm, crimp range: 0.25 mm² ... 1 mm²

Mounting material

Color-coding - ST-Z0016 - 1617993

Color-coding, color: green

Color-coding - ST-Z0017 - 1618049

Color-coding, color: orange

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Accessories

Color-coding - ST-Z0018 - 1618050

Color-coding, color: black

Square mounting flange with O-ring - ST-Z0002 - 1607771

Square mounting flange with O-ring, Axial O-ring, 4x Ø2,7

Square mounting flange with O-ring - ST-Z0003 - 1607772

Square mounting flange with O-ring, Axial O-ring, 4xM3

Square mounting flange - ST-Z0004 - 1607773

Square mounting flange, 4x Ø2,7

Square mounting flange - ST-Z0005 - 1607775

Square mounting flange, 4xM3

Protective cover

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Accessories

Protective cap - ST-Z0007 - 1607777

Plastic protection cap for connectors with M17 knurled nut and M17 SPEEDCON knurled nut

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