1607735

https://www.phoenixcontact.com/us/products/1607735

PHŒNIX CONTACT

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Cable connector, straight, Screw locking mechanism, M17, number of positions: 7+PE, contact connection type: Pin, shielded: yes, degree of protection: IP67, cable diameter range: 5 mm ... 8 mm, number of positions: 8, connection method: Crimp connection, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1242354

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 preassembled cables on one or both sides

Commercial data

| Item number | 1607735 |
|--------------------------------------|--------------------------------|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | AB35 |
| Product key | ABRBEA |
| Catalog page | Page 136 (C-2-2019) |
| GTIN | 4046356274357 |
| Weight per piece (including packing) | 73.9 g |
| Weight per piece (excluding packing) | 63.7 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical data

| General | Order crimp contacts Ø 1 mm separately |
|-------------|---|
| afety note | |
| 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 an operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicate 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 |
| | 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/o 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 |



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| warnings (e.g. DIN EN ISO 13732-1:2008-12). | |
|---|--|
|---|--|

Mounting

Product properties

| Product type | Circular connector (cable-side) |
|---------------------|---------------------------------|
| Number of positions | 8 |
| Connection profile | 7+PE |
| Application | Power |
| Series | ST |
| Shielded | yes |
| Coding | Ν |
| Thread type | M17 |

Material specifications

| Seal material | FPM |
|----------------------------|--|
| Housing material | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Insulator material | PA 6.6 |
| Gasket and O-ring material | FPM |
| Housing material | Metal |

Connection data

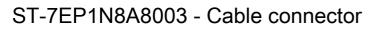
| Conductor connection | |
|----------------------|------------------|
| Connection method | Crimp connection |

Electrical properties

External cable diameter

| Contact | |
|--------------------------------|----------|
| Contact diameter | 1 mm |
| Max. current | 14 A |
| Nominal voltage U _N | 630 V |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Rated surge voltage | 6 kV |
| Contact | |
| Contact diameter | 1 mm |
| Connector | |
| Туре | straight |
| Direction of rotation | Standard |
| Cable/line | |

5 mm ... 8 mm





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Environmental and real-life conditions

Ambient conditions

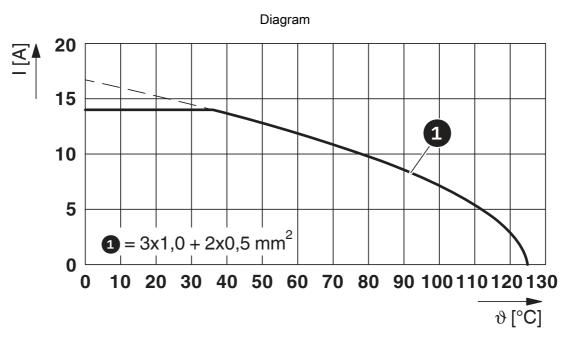
| Degree of protection | IP67 | |
|---------------------------------|---------------|--|
| Ambient temperature (operation) | -40 °C 125 °C | |
| Altitude | 2000 m | |



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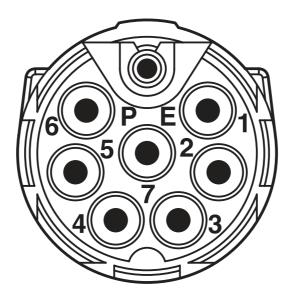
https://www.phoenixcontact.com/us/products/1607735

Drawings

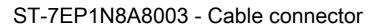


I = current strength, θ = ambient temperature, 3x 14 A + 2x 2 A constant

Schematic diagram



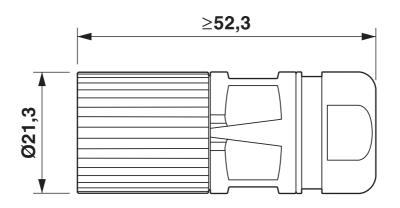
Connector pin assignment





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Dimensional drawing





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https://www.phoenixcontact.com/us/products/1607735

Approvals

V: To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1607735

| Approval ID: E153698-2 | 0140124 | | | |
|------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| Power | 600 V | 5 A | - | - |
| Signal | 600 V | 4 A | - | - |

| CUL Recognized Approval ID: E153698-20 | 0140124 | | | |
|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| Power | 600 V | 5 A | - | - |
| Signal | 600 V | 4 A | - | - |

| CUL Recognized Approval ID: FILE E 33 | 5019 | | | |
|--|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| Power | 600 V | 5 A | - | - |
| Signal | 600 V | 4 A | - | - |

Approval ID: FILE E 335019

| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
|--------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| Power | 600 V | 5 A | - | - |
| Signal | 600 V | 4 A | - | - |



EAC Approval ID: B.01687

| UL Listed Approval ID: E468743-202 | UL Listed Approval ID: E468743-20210825 | | | |
|--|--|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| Power | 600 V | 10 A | - | - 18 |
| Signal | 60 V | 2 A | - | - 18 |
| | | | | |



Nominal voltage U_N

Nominal current I_N

Cross section AWG

Cross section mm²

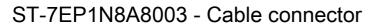


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| Power | 600 V | 8 A | - 18 | - |
|--------|-------|-----|------|---|
| Signal | 60 V | 2 A | - 18 | - |

cULus Listed

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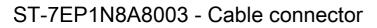
Classifications

ECLASS

| ECLASS-11.0 | 27440102 |
|-------------|----------|
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

ETIM

| | ETIM 8.0 | EC002635 | | |
|----|-------------|----------|--|--|
| UN | UNSPSC | | | |
| | UNSPSC 21.0 | 39121400 | | |



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Environmental product compliance

| REACh SVHC | Lead 7439-92-1 | |
|------------|--|--|
| | | |
| China RoHS | Environmentally Friendly Use Period = 50 years | |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" | |

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Accessories

ST-10KP010 - Crimp contact

1618255 https://www.phoenixcontact.com/us/products/1618255



Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.06 mm² ... 0.25 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1243215

ST-10KP035 - Crimp contact

1618458

https://www.phoenixcontact.com/us/products/1618458



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: $0.25 \text{ mm}^2 \dots 1 \text{ mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1243215

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ST-Z0007 - Protective cap

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https://www.phoenixcontact.com/us/products/1607777



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

ST-Z0016 - Color-coding

1617993 https://www.phoenixcontact.com/us/products/1617993

Color-coding, color: green



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ST-Z0017 - Color-coding

1618049

https://www.phoenixcontact.com/us/products/1618049

Color-coding, color: orange



ST-Z0018 - Color-coding

1618050 https://www.phoenixcontact.com/us/products/1618050

Color-coding, color: black





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ST-Z0002 - Square mounting flange with O-ring

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

ST-Z0003 - Square mounting flange with O-ring

1607772 https://www.phoenixcontact.com/us/products/1607772



Square mounting flange with O-ring, Axial O-ring, 4xM3, series: ST

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ST-Z0004 - Square mounting flange

1607773

https://www.phoenixcontact.com/us/products/1607773

Square mounting flange, 4x Ø2,7, series: ST



ST-Z0005 - Square mounting flange

1607775 https://www.phoenixcontact.com/us/products/1607775



Square mounting flange, 4xM3, series: ST

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