

1705996

https://www.phoenixcontact.com/us/products/1705996

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Device connector front mounting, Range of articles: SUNCLIX, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 2.5 mm², rated voltage: 1000 V DC, rated current: 27 A, Connection method: Crimp, Contact connection type: Pin, cable length: 300

Commercial data

| Item number | 1705996 |
|--------------------------------------|---------------|
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | AB02 |
| Product key | ABLBAA |
| GTIN | 4046356828314 |
| Weight per piece (including packing) | 17.96 g |
| Weight per piece (excluding packing) | 17.688 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |



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Technical data

Notes

| Safety note | WARNING: Commission properly functioning products o |
|-------------|--|
| | 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 inside the product. They must choose the following configuration of the second |
| | operate the product. They must observe the following safe notes. The qualified personnel must be familiar with the ba |
| | electrical engineering. They must be able to recognize and |
| | prevent danger. The relevant symbol on the packaging inc |
| | that only personnel familiar with electrical engineering are |
| | allowed to install and operate the product. |
| | WARNING: The connectors may not be plugged in or |
| | disconnected under load. Ignoring the warning or imprope may damage persons and/or property. |
| | |
| | The products are suitable for applications in plant, contro and electrical device engineering. |
| | |
| | Assembled products may not be manipulated or imprope opened. |
| | Only use mating connectors that are specified in the tech |
| | data of the standards listed (e.g. the ones listed in the pro |
| | accessories online at phoenixcontact.com/products). |
| | When using the product in direct connection with third-particular |
| | 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. |
| | Observe the corresponding technical data. You will find information: |
| | information: o On the product |
| | o On the packing label |
| | o In the supplied documentation |
| | o Online at phoenixcontact.com/products under the produ |
| | The installation notes/Design In documents online on the |
| | download page at phoenixcontact.com/products must be |
| | observed for this product. |
| | Use a protective cap to protect connectors that are not in |
| | The suitable accessories are available online in the acces section of the product at phoenixcontact.com/products |
| | |
| | The connector warms up in normal operation. Depending ambient conditions, the surface of the connector can conti |
| | warm up. In this case, the user is responsible for posting |
| | warnings (e.g. DIN EN ISO 13732-1:2008-12). |
| | Operate the connector only when it is fully plugged in an |
| | interlocked. |
| | Ensure that when laying the cable, the tensile load on the |
| | connectors does not exceed the upper limit specified in th |



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| | Observe the minimum bending radius of the cable. Lay the cable without twisting it. |
|--------------------------------------|---|
| roduct properties | |
| Product type | Panel feed-through |
| Product family | SUNCLIX |
| Number of positions | 1 |
| Insulation characteristics | |
| Protection class | Ш |
| Degree of pollution | 2 |
| onnection data | |
| Conductor connection | |
| Tightening torque | 1.8 Nm ±0.1 Nm |
| Dimensions | |
| Dimensional drawing | |
| Width | 26.3 mm |
| Height | 26.3 mm |
| Length | 41.5 mm |
| lectrical properties | |
| Rated voltage (III/2) | 1000 V |
| Nominal voltage ATD | 1000 V DC in accordance with IEC 62852:2014/AMD1:2020 |
| Rated surge voltage (III/2) | 12 kV |
| Rated current (2.5 mm ²) | 27 A (in accordance with IEC 62852:2014/AMD1:2020) |
| Contact resistance | 0.45 mΩ |
| Contact resistance | \leq 0.45 m Ω (when plugged in (without cable)) |
| lechanical properties | |
| Mechanical data | |
| Insertion/withdrawal cycles | 100 |
| Insertion force | 45 N ±10 N |
| Withdrawal force | 250 N ±50 N (when locked) |
| Naterial specifications | |
| | |

| Color | black |
|---------------------------|-------|
| Color of the housing part | black |
| Material | PPE |



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| Flammability rating according to UL 94 | V0 |
|--|----------------------|
| Insulating material group | III |
| Seal material | EPDM |
| Insulating material | mPPE |
| Contact surface | Silver Ag |
| Housing material | PPE |
| Cable seal material | Elastosil LR 3065/50 |
| Contact material | Cu |
| Contact surface material | Ag |
| Contact carrier material | PPE |
| Outer sheath, material | PE-X |

Cable/line

| Cable length | 300 mm |
|---|--|
| Cable type | S01 |
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | 50x0.25 |
| Cable type | Hose line |
| Cable structure | 50 x 0.25 mm Ø litz wires, tin-plated, 1x bunched |
| External cable diameter | 4.25 mm ±0.15 mm |
| Outer sheath, material | PE-X |
| External sheath, color | red, similar to RAL 3000 |
| Single wire, material | Cu |
| Single wire, cross section | 2.5 mm ² |
| Cable cross section | 2.5 mm ² |
| Nominal voltage, cable | 1.8 kV DC (max U (conductor / conductor, ungrounded system)) |
| Test voltage, cable | ≥ 8 kV AC (Spark test online (standard designation)) |
| Smallest bending radius, fixed installation | 21.25 mm (5x Ø) |
| Smallest bending radius, movable installation | 40.25 mm (10x Ø) |
| Cable pull-out force | > 80 N |
| Halogen-free | yes |
| Resistance to oil | no |
| Flame resistance | no |

Environmental and real-life conditions

| Degree of protection (when plugged in) | IP66 / IP68 (2 m / 24 h) |
|--|--------------------------|
| Degree of protection (not plugged in) | IP20 |
| Ambient temperature (operation) | -40 °C 85 °C |
| Ambient temperature (assembly) | -25 °C 50 °C |
| Resistance to oil | no |

Standards and regulations

| Flame resistance | no |
|------------------|----|
|------------------|----|



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| Resistance to oil | no |
|--------------------------|--------------------------|
| Standards/specifications | IEC 62852:2014/AMD1:2020 |

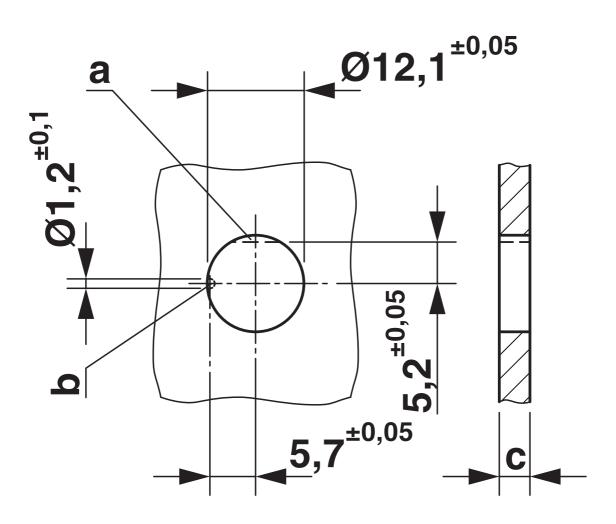


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Drawings

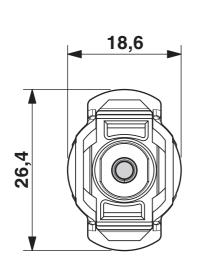
Dimensional drawing



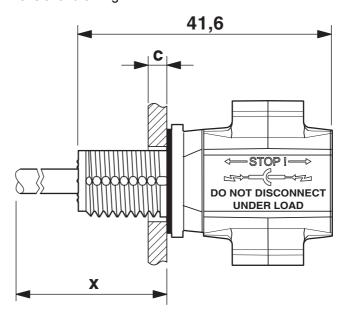


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Dimensional drawing



Dimension x = cable length

c: panel thickness - plastic: 2 - 6 mm; metal: 2 - 5 mm



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Approvals

V: To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1705996



TÜV Rheinland Approval ID: R 60165003-0001



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Classifications

ECLASS

| ECLASS-11.0 | 27440107 |
|-------------|----------|
| ECLASS-12.0 | 27440107 |
| ECLASS-13.0 | 27440107 |

ETIM

| | ETIM 9.0 | EC002635 |
|----|-------------|----------|
| UN | NSPSC | |
| | UNSPSC 21.0 | 39121400 |



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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% |



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Accessories

PV-FT-C NUT BK - Screw connection

1775880 https://www.phoenixcontact.com/us/products/1775880

Screw connection, Range of articles: SUNCLIX, Packing unit: 100 pcs. (polybag)



PV-C PROTECTION CAP - Protective cap

1785430

https://www.phoenixcontact.com/us/products/1785430

Protective cap, Range of articles: SUNCLIX, color: black, self-sealing, without interlock, set consisting of: 1 protective cap for connector side and 1 protective cap for coupling side



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