# SH-Z0012 - Contact insert

1008161

https://www.phoenixcontact.com/us/products/1008161

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Insulating body female (power, signal, and data) for M23 hybrid connectors

## Commercial data

| | |
|---|---|
| Item number | 1008161 |
| Packing unit | 100 pc |
| Minimum order quantity | 100 pc |
| Sales key | AB33 |
| Product key | ABRCDT |
| GTIN | 4055626689586 |
| Weight per piece (including packing) | 4.29 g |
| Weight per piece (excluding packing) | 4.078 g |
| Customs tariff number | 39269097 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| Order information: | Crimp contacts, 6x Ø 0.6 mm, 4x Ø 1 mm, 5x Ø 2 mm, order separately |

Safety 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 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 |
| | • 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). |

## Product properties

| | |
|---|---|
| Product type | Contact insert |
| Series | SH |
| Application | Hybrid |
| Number of positions | 15 |
| Shielded | yes |
| Thread type | M23 |

## Connection data

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

## Material specifications

| | |
|---|---|
| Housing material | Plastic |

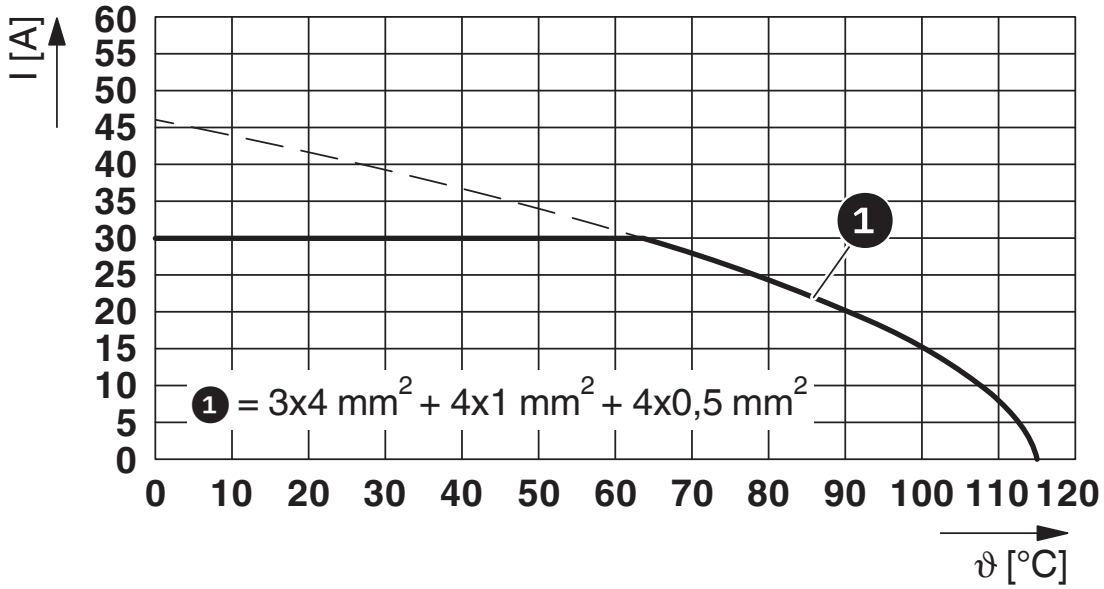
## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 115 °C |
| Ambient temperature (storage/transport) | 15 °C ... 25 °C |
| Permissible humidity (storage/transport) | 50 % ... 65 % |

## Drawings

Diagram




I = current strength, ϑ = ambient temperature, power contacts A-C: 3 x up to 30 A, signal contacts: 4 x 2 A constant, data contacts: 4 x 1 A constant

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27440223 |
| ECLASS-13.0 | 27440223 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC003557 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## 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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