

RC/TWGM/KVD/LBL 16+3 - Cable connector



1685518

<https://www.phoenixcontact.com/us/products/1685518>

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Cable connector, number of positions: 19, status display: No; master cable connection: M23 screw locking, shielding: yes, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1245651



Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 1685518 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB31 |
| Product key | ABRAFC |
| Catalog page | Page 314 (C-2-2019) |
| GTIN | 4017918878917 |
| Weight per piece (including packing) | 212.6 g |
| Weight per piece (excluding packing) | 208.3 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical data

Notes

| | |
|--------------------|--|
| Notes on operation | The connector is designed for use on sensor/actuator boxes with an M23 plug-in connection. |
|--------------------|--|

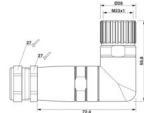
Product properties

| | |
|---------------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Number of positions | 19 |

Data management status

| | |
|------------------|----|
| Article revision | 05 |
|------------------|----|

Dimensions

| | |
|---------------------|---|
| Dimensional drawing |  |
| Width | 26 mm |
| Height | 60 mm |
| Length | 92 mm |

Material specifications

| | |
|--------------------------|-------------|
| Material Housing | GD-Zn |
| Seal material | FPM |
| Contact material | CuZn |
| Contact surface material | gold-plated |
| Contact carrier material | PBT |

Connection data

Conductor connection

| | |
|--------------------------|--|
| Connection method | Solder connection |
| Connection cross section | 1 mm ² 1.5 mm ² |

Pin assignment

| | |
|--|---|
| Slot/position = Wire color or connection | 1 / 4 (A) = 15 = WH 1 / 2 (B) = 7 = GYPK 2 / 4 (A) = 5 = GN 2 / 2 (B) = 4 = RDBU 3 / 4 (A) = 16 = YE 3 / 2 (B) = 8 = WHGN 4 / 4 (A) = 3 = GY 4 / 2 (B) = 14 = BNGN |
|--|---|

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| | |
|--|-----------------------------|
| | 5 / 4 (A) = 17 = PK |
| | 5 / 2 (B) = 9 = WHYE |
| | 6 / 4 (A) = 2 = RD |
| | 6 / 2 (B) = 13 = YE BN |
| | 7 / 4 (A) = 11 = BK |
| | 7 / 2 (B) = 10 = WHGY |
| | 8 / 4 (A) = 1 = VT |
| | 8 / 2 (B) = 18 = GY BN |
| | 1-8 / 1 (+ 120 V) = 19 = BN |
| | 1-8 / 3 (0 V) = 6 = BU |
| | 1-8 / 5 (PE) = 12 = GNYE |

Electrical properties

| | |
|-----------------------|---|
| Nominal voltage U_N | 150 V |
| Rated current, total | 10 A (with 1 mm ² conductor cross section) |

Connector

Connection 2

| | |
|-------------------|--------|
| Head design | Socket |
| Head cable outlet | angled |
| Head thread type | M23 |

Cable/line

| | |
|-------------------------|--------------------|
| External cable diameter | 9.5 mm ... 14.5 mm |
| Connection method | M23 screw locking |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|-------------------|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) | -20 °C ... 125 °C |

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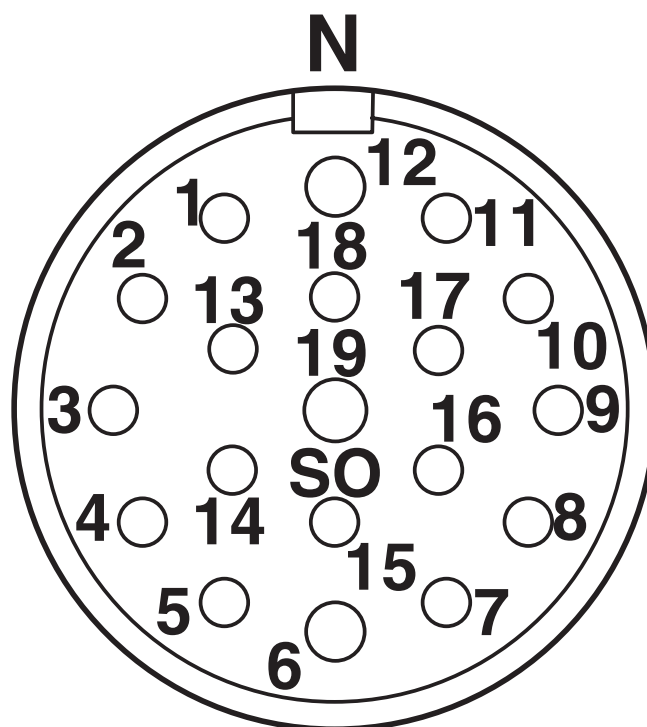
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Drawings

Schematic diagram



Pin assignment M23 socket, 19-pos., female side view

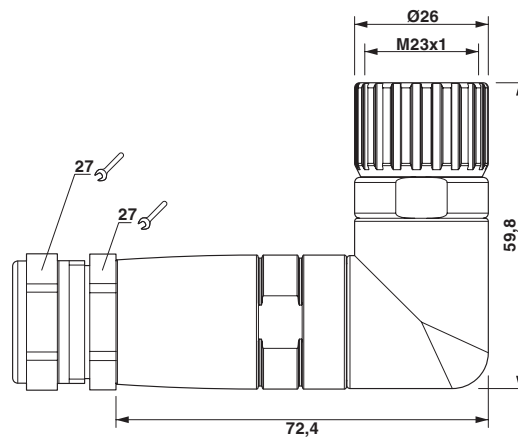
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Dimensional drawing



Dimensional drawing

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27440202 |
| ECLASS-12.0 | 27440202 |
| ECLASS-13.0 | 27440202 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC000437 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 31261500 |
|-------------|----------|

Environmental product compliance

| | |
|---|---|
| EU RoHS | |
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |
| China RoHS | |
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC | |
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 9792afa3-1321-42b5-a891-d65899a66248 |