

## Female connector - RCK-TWUM/BL16+3/ 5,0PUR-U - 1684072

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Female connector, Number of positions: 19, Status indication: No; Master cable connection: M23 socket, Cable length: 5 m, Shielding: No

### Key commercial data

package_quantity	1
GTIN	4017918172046

### Technical data

#### General

Rated voltage	150 V
Number of positions	19

#### Ambient conditions

Degree of protection	IP65
Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 125 °C (Plug / socket)

#### Master cable data/connection data

Connection method	M23 socket
Length of cable	5 m

#### Insulation material

Housing material	PUR
Material of contact, master cable side	CU alloy
Material of contact surface, master cable side	Gold-plated
Material of the contact carrier on the master cable side	PA

#### Connection assignment

Slot/position = pin = conductor color	1 / 4 (A) = 15 = WH
Slot/position = pin = conductor color	1 / 2 (B) = 7 = GY/PK
Slot/position = pin = conductor color	2 / 4 (A) = 5 = GN
Slot/position = pin = conductor color	2 / 2 (B) = 4 = RD/BU
Slot/position = pin = conductor color	3 / 4 (A) = 16 = YE
Slot/position = pin = conductor color	3 / 2 (B) = 8 = WH/GN
Slot/position = pin = conductor color	4 / 4 (A) = 3 = GY
Slot/position = pin = conductor color	4 / 2 (B) = 14 = BN/GN

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## Technical data

### Connection assignment

Slot/position = pin = conductor color	5 / 4 (A) = 17 = PK
Slot/position = pin = conductor color	5 / 2 (B) = 9 = WH/YE
Slot/position = pin = conductor color	6 / 4 (A) = 2 = RD
Slot/position = pin = conductor color	6 / 2 (B) = 13 = YE/BN
Slot/position = pin = conductor color	7 / 4 (A) = 11 = BK
Slot/position = pin = conductor color	7 / 2 (B) = 10 = WH/GY
Slot/position = pin = conductor color	8 / 4 (A) = 1 = VT
Slot/position = pin = conductor color	8 / 2 (B) = 18 = GY/BN
Slot/position = pin = conductor color	1-8 / 1 (+ 120 V) = 19 = BN
Slot/position = pin = conductor color	1-8 / 3 (0 V) = 6 = BU
Slot/position = pin = conductor color	1-8 / 5 (PE) = 12 = GN/YE

### Cable

Cable type	PUR/PVC black
Cable type (abbreviation)	PUR
Cable abbreviation	LiYY11Y-HF
UL AWM style	20549 (80°C/300 V)
Conductor cross section	16x 0.5 mm <sup>2</sup> (signal line)
Conductor cross section	3x 1 mm <sup>2</sup> (power line)
AWG signal line	20
AWG power supply	17
Conductor structure signal line	28x 0.15 mm
Conductor structure, voltage supply	56x 0.15 mm
Core diameter including insulation	1.5 mm ±0.1 mm (signal line)
Core diameter including insulation	2.1 mm ±0.1 mm (power line)
Wire colors	Brown, blue, green-yellow, white, green, yellow, gray, pink, red, black, violet, gray-pink, red-blue, white-green, brown-green, white-yellow, yellow-brown, white-gray, gray-brown
Overall twist	Wires twisted in layers
External sheath, color	Black RAL 9005
Inner sheath thickness	≥ 0.15 mm
Outer sheath thickness	≥ 0.76 mm
External cable diameter D	10.5 mm ± 0.2 mm
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	1500000
Minimum bending radius, drag chain applications	10 x D
Traversing path	2 m
Traversing rate	2 m/s
Cable weight	183.7 kg/km
Outer sheath, material	PUR
Material, inner sheath	PVC

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### Technical data

#### Cable

<b>Material conductor insulation</b>	PVC
<b>Conductor material</b>	Bare Cu litz wires
<b>Nominal voltage, cable</b>	300 V
<b>Test voltage, cable</b>	2000 V
<b>Special properties</b>	Silicone-free
<b>Flame resistance</b>	According to DIN EN 50265
<b>Resistance to oil</b>	As per VDE 0472 Part 803
<b>Other resistance</b>	Highly resistant to acids, alkaline solutions and solvents
<b>Ambient temperature (operation)</b>	-40 °C ... 90 °C (cable, fixed installation)
<b>Ambient temperature (operation)</b>	-5 °C ... 80 °C (cable, flexible installation)

#### classifications

##### eCl@ss

<b>eCl@ss 4.0</b>	27060306
<b>eCl@ss 4.1</b>	27060306
<b>eCl@ss 5.0</b>	27061801
<b>eCl@ss 5.1</b>	27061801
<b>eCl@ss 6.0</b>	27061801
<b>eCl@ss 7.0</b>	27061801
<b>eCl@ss 8.0</b>	27061801

##### ETIM

<b>ETIM 2.0</b>	EC000104
<b>ETIM 3.0</b>	EC000104
<b>ETIM 4.0</b>	EC000104
<b>ETIM 5.0</b>	EC001855

##### UNSPSC

<b>UNSPSC 6.01</b>	31251501
<b>UNSPSC 7.0901</b>	31251501
<b>UNSPSC 11</b>	31251501
<b>UNSPSC 12.01</b>	31251501
<b>UNSPSC 13.2</b>	31251501

#### approvals

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GOST /

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#### Approval details

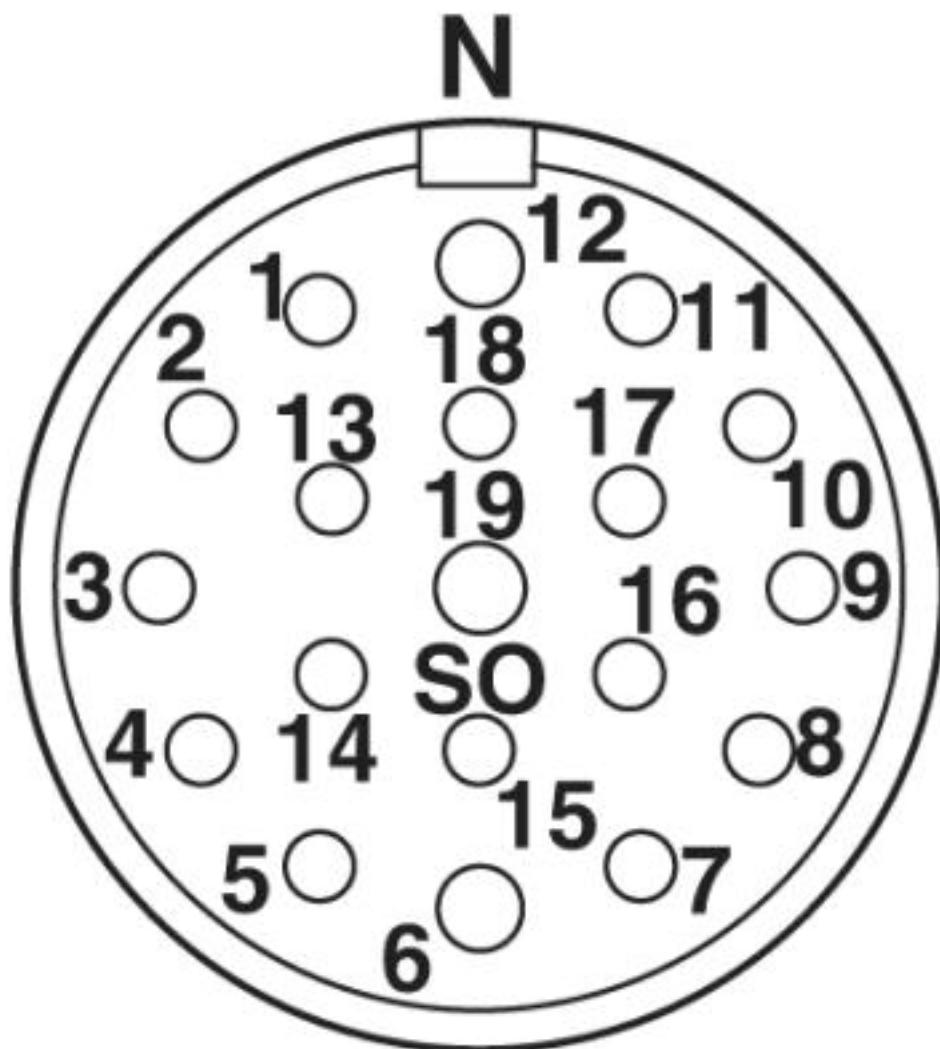
## Female connector - RCK-TWUM/BL16+3/ 5,0PUR-U - 1684072

### approvals

 GOST

### Drawings

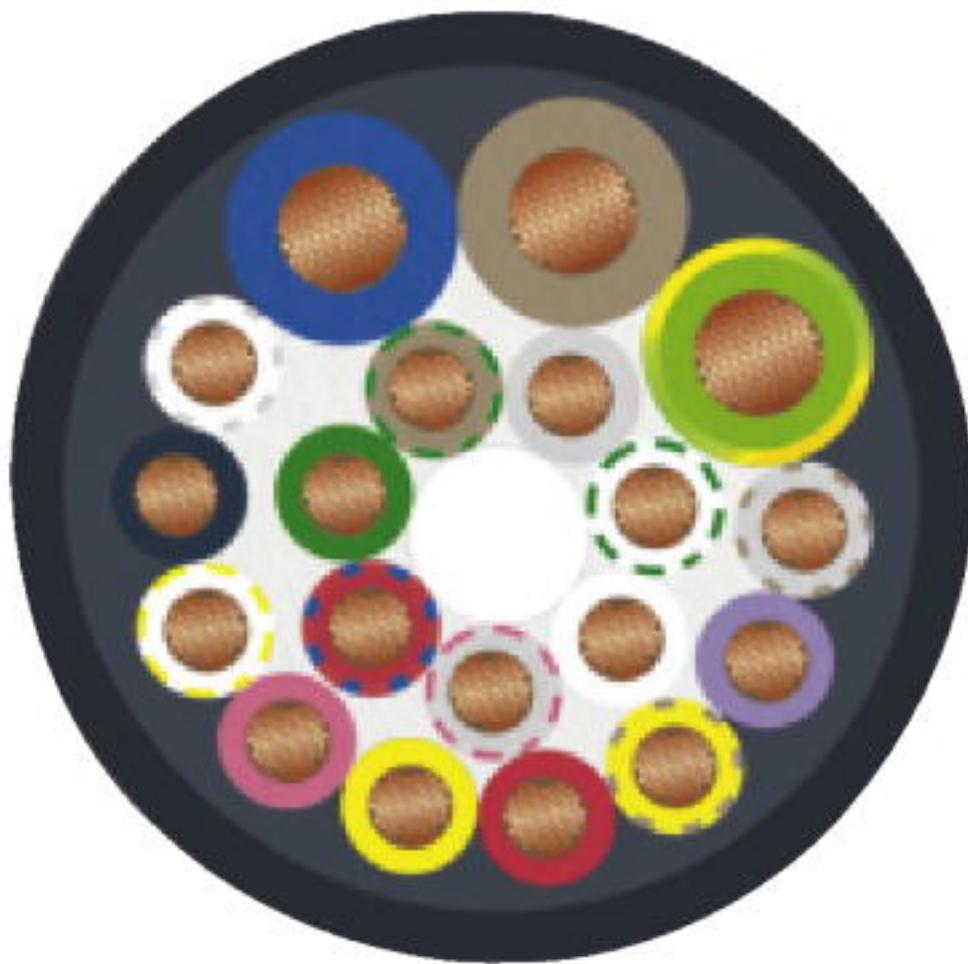
### Schematic diagram



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

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Cable cross section



PUR/PVC black [PUR]

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