

Female connector - RCK-TWUM/BL16+3/10,0PUR-U - 1684085

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Female connector, Number of positions: 19, Status indication: No; Master cable connection: M23 socket, Cable length: 10 m, Shielding: No

Key commercial data

package_quantity	1
GTIN	4017918172039

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	10 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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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 ² (signal line)
Conductor cross section	3x 1 mm ² (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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Cable

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

classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27061801

ETIM

ETIM 2.0	EC000104
ETIM 3.0	EC000104
ETIM 4.0	EC000104
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

approvals

GOST /

Approval details

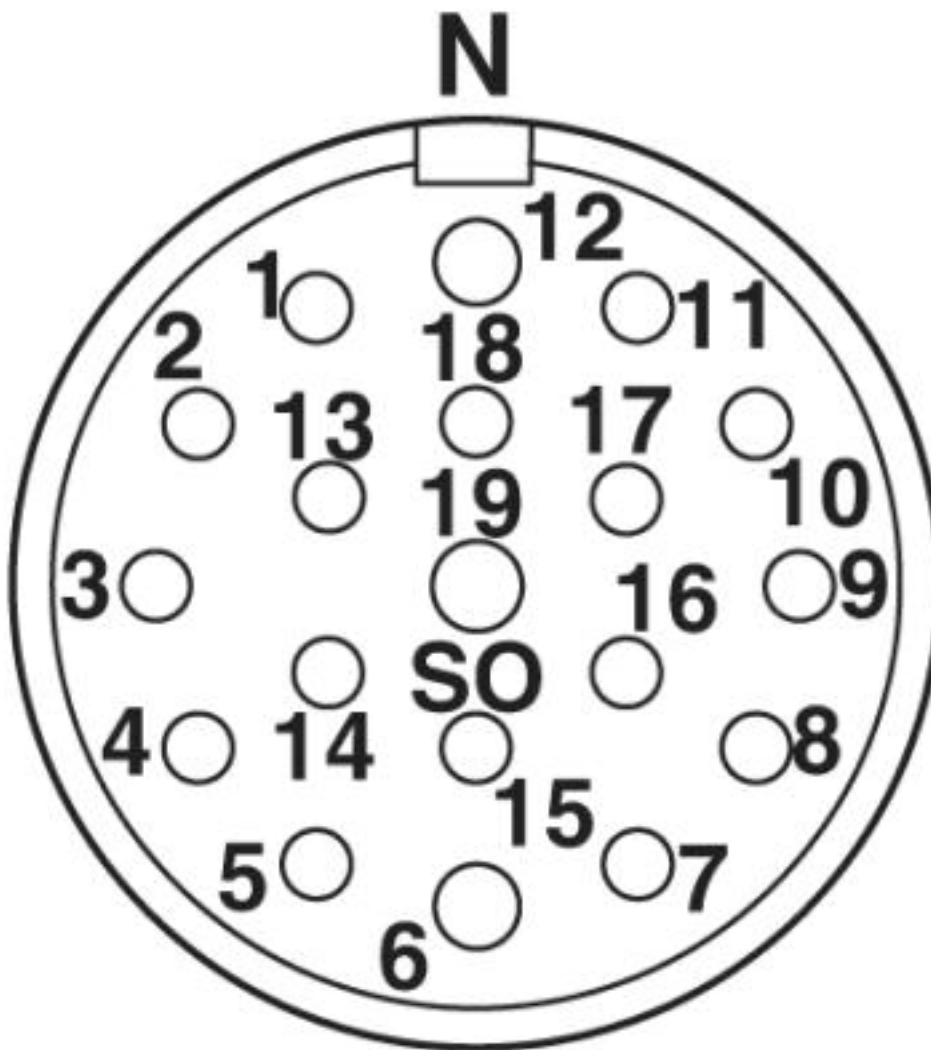
Female connector - RCK-TWUM/BL16+3/10,0PUR-U - 1684085

approvals



Drawings

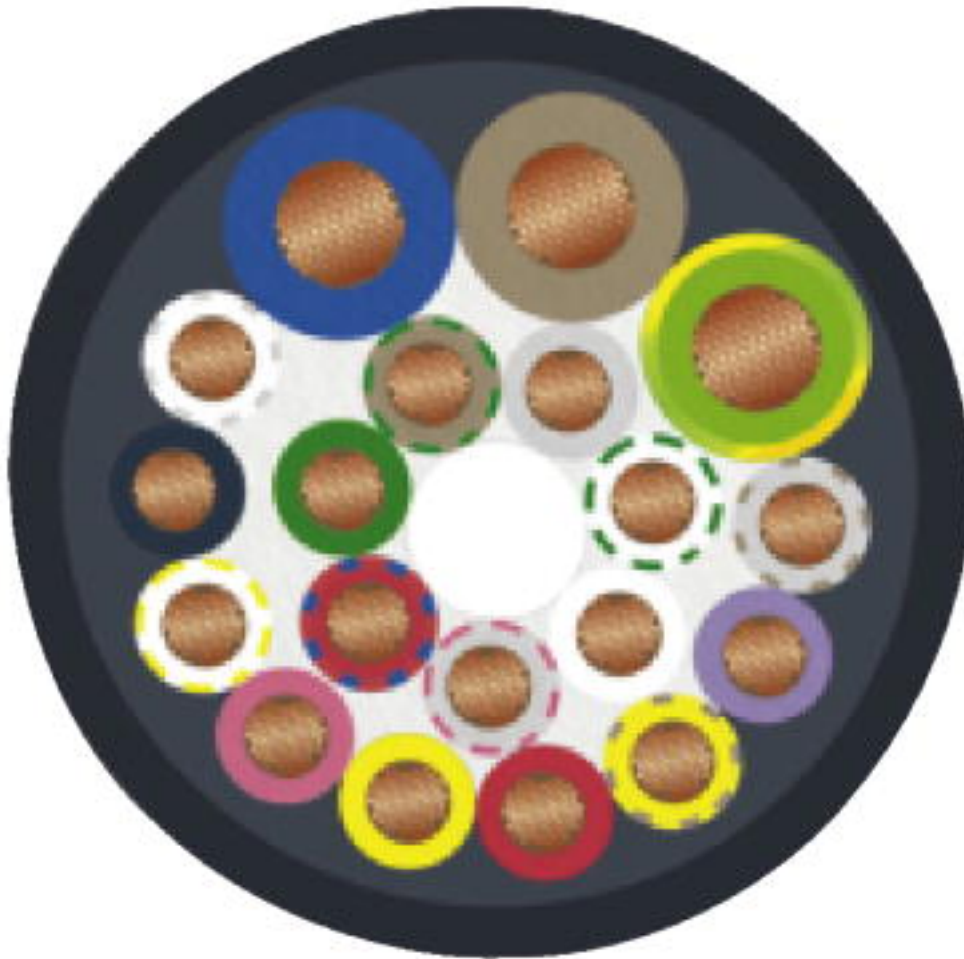
Schematic diagram



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

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Cable cross section



PUR/PVC black [PUR]

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