

# Master cable - RCK-TGUM/BL12/ 5,0PUR-U - 1684014


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M23 socket, straight, 12-pos., with 5 m master cable, pin 9 and 10 bridged



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 172107
GTIN	4017918172107
Sales Key	02

## Technical data

### General

Rated voltage	48 V AC 60 V DC
Number of positions	12
Sensor/actuator connection system	M12 socket
Note	The master cable is earmarked for use on the sensor/actuator boxes with an M23 plug-in connection.

### Ambient conditions

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

### Master cable data/connection data

Connection method	M23 plug connection
Length of cable	5 m

### Insulation material

Housing material	PUR
Material of contact, master cable side	CU alloy

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## Technical data

### Insulation material

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) = 1 = WH
	2 / 4 (A) = 2 = GN
	3 / 4 (A) = 3 = YE
	4 / 4 (A) = 4 = GY
	5 / 4 (A) = 5 = PK
	6 / 4 (A) = 6 = RD
	7 / 4 (A) = 7 = BK
	8 / 4 (A) = 8 = VT
	1-8 / 1 (+ 48 V) = 11 = BN
	1-8 / 3 (0 V) = 9+10 = BU
	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	8x 0.34 mm <sup>2</sup> (Signal line)
	3x 0.75 mm <sup>2</sup> (power line)
AWG signal line	22
AWG power supply	18
Conductor structure signal line	19x 0.15 mm
Conductor structure, voltage supply	42x 0.15 mm
Core diameter including insulation	1.3 mm ±0.1 mm (Signal line)
	1.8 mm ±0.1 mm (power line)
Wire colors	brown, blue, green/yellow, white, green, yellow, gray, pink, red, black, violet
Overall twist	Wires twisted in layers
External sheath, color	black RAL 9005
Inner sheath thickness	≥ 0.15 mm
Outer sheath thickness	≥ 0.38 mm
External cable diameter D	8.5 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

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### Technical data

#### Cable

Cable weight	107.4 kg/km
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 5 MΩ*km
Conductor resistance	≤ 53 Ω/km (Signal line) ≤ 26 Ω/km (power line)
Nominal voltage, cable	300 V AC
Test voltage Core/Core	2000 V (50 Hz, 5 min.)
Special properties	Silicone-free
Flame resistance	DIN EN 50265
Resistance to oil	according to VDE 0472 Part 803
Other resistance	Highly resistant to acids, alkaline solutions and solvents
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation) -5 °C ... 80 °C (cable, flexible installation)

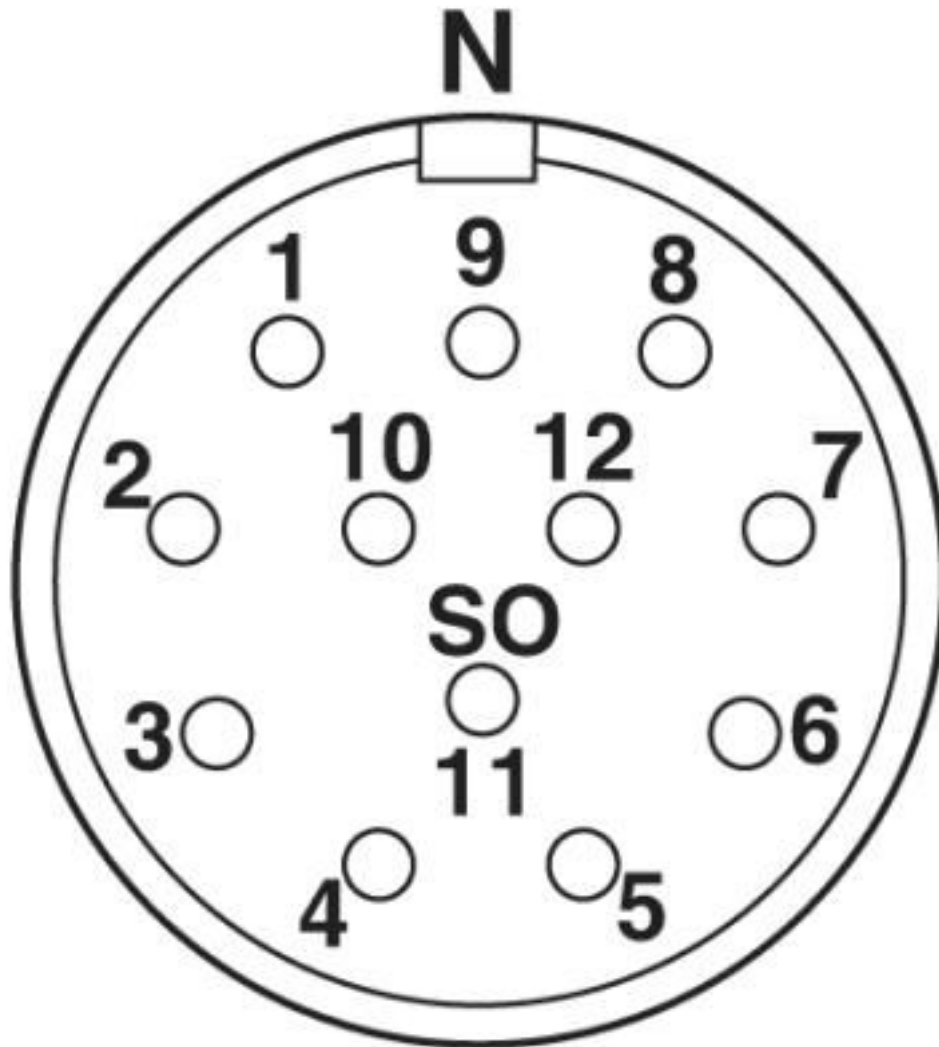
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

# Master cable - RCK-TGUM/BL12/ 5,0PUR-U - 1684014

Schematic diagram



Pin assignment M23 socket, 12-pos., female side view

# Master cable - RCK-TGUM/BL12/ 5,0PUR-U - 1684014

Cable cross section



PUR/PVC black [PUR]

## Classifications

eCl@ss

eCl@ss 10.0.1	27060311
eCl@ss 4.0	27060300
eCl@ss 4.1	27060300
eCl@ss 5.0	27061800
eCl@ss 5.1	27061800
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

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## Classifications

### ETIM

ETIM 2.0	EC000104
ETIM 3.0	EC000104
ETIM 4.0	EC000104
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855

### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501
UNSPSC 19.0	31251501
UNSPSC 20.0	31251501
UNSPSC 21.0	31251501

## Approvals

### Approvals

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#### Approvals

EAC

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#### Ex Approvals

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### Approval details

EAC		19060508
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