

# RCK-TGUM/BL16+3/ 5,0PUR-U - Master cable



1684056

<https://www.phoenixcontact.com/us/products/1684056>

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Master cable, application: Sensor/actuator box, connection method: M12 socket Plastic, number of positions: 19, slot assignment: Double, status display: No; master cable connection: M23 plug connection, PUR/PVC, cable length: 5 m, shielding: no, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1260765

## Commercial Data

Item number	1684056
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	AB37
Product Key	ABRDBA
Catalog Page	Page 128 (PC-2009)
GTIN	4017918172060
Weight per Piece (including packing)	1,027 g
Weight per Piece (excluding packing)	1,015.7 g
Customs tariff number	85444290
Country of origin	DE

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## Technical Data

### Notes

Notes on operation	The master cable is earmarked for use on the sensor/actuator boxes with an M23 plug-in connection.
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### Product properties

Product type	Master cable, assembled
Number of positions	19
Application	Sensor/actuator box

### Electrical properties

Nominal voltage $U_N$	48 V AC
	60 V DC

### LED signaling

Status display present	No
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### Material specifications

Color	black
Material Housing	PUR
Material of contact, master cable side	CU alloy
Material of the contact carrier on the master cable side	PA
Material of contact surface, master cable side	gold-plated

### Connector

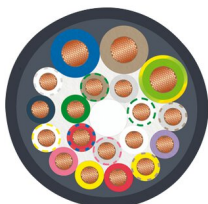
#### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M23

### Cable/line

Cable length	5 m
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#### PUR/PVC black [PUR]

Dimensional drawing	
Cable weight	183.7 kg/km

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UL AWM Style	20549 (80°C/300 V)
Number of positions	19
Shielded	no
Cable type	PUR/PVC black [PUR]
Conductor structure signal line	28x 0.15 mm
AWG signal line	20
Conductor cross section	16x 0.5 mm <sup>2</sup> (Signal line) 3x 1 mm <sup>2</sup> (power line)
Wire diameter incl. insulation	1.5 mm ±0.1 mm (Signal line) 2.1 mm ±0.1 mm (power line)
External cable diameter	10.5 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	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
Inner sheath thickness	≥ 0.15 mm
Thickness, outer sheath	≥ 0.76 mm
Overall twist	Wires twisted in layers
Nominal voltage, cable	300 V
Test voltage	2000 V
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	10 x D
Max. bending cycles	1500000
Flame resistance	according to DIN EN 50265
Resistance to oil	according to VDE 0472 Part 803
Other resistance	Highly resistant to acids, alkaline solutions and solvents
Special properties	Silicone-free
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

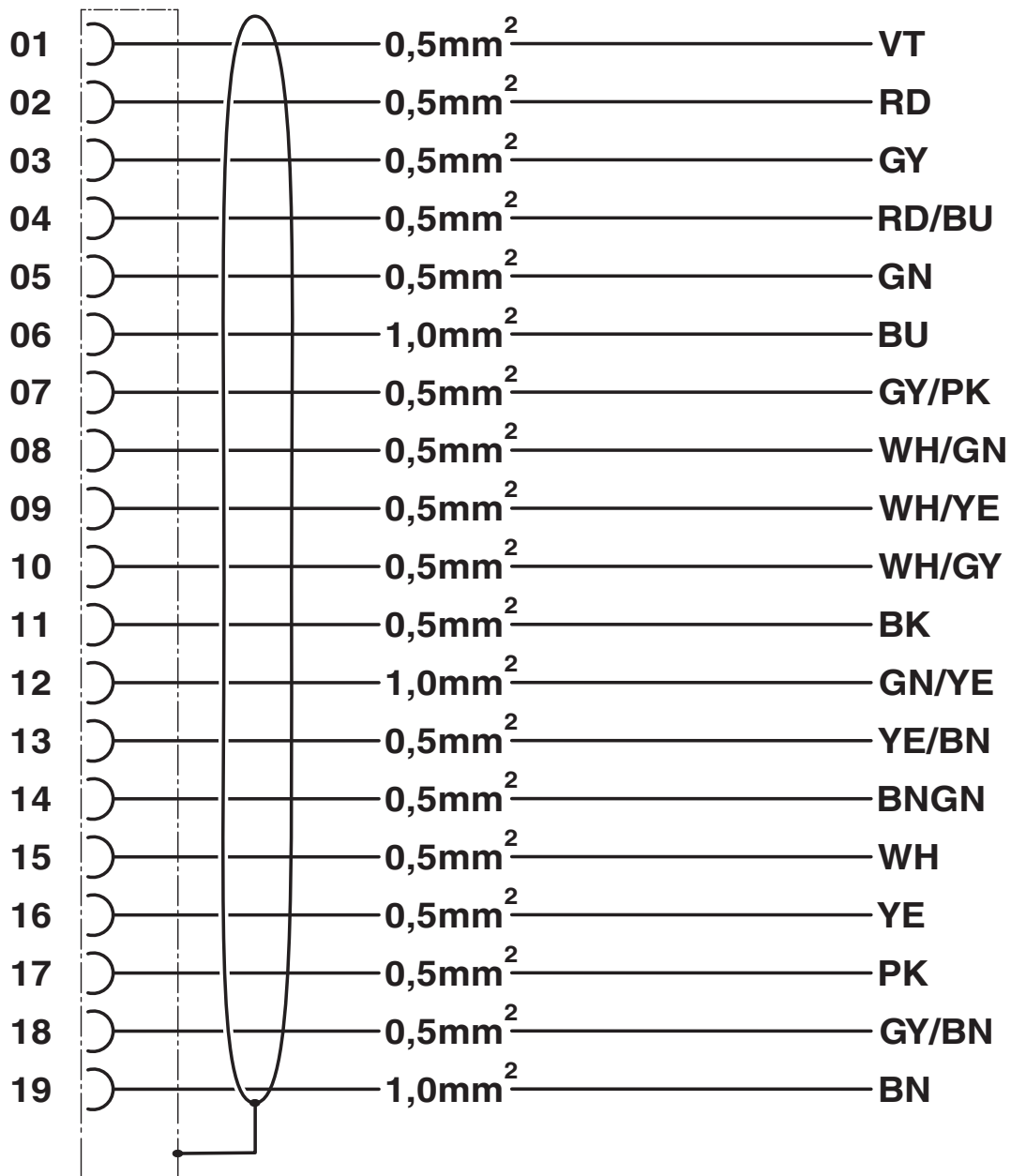
## Environmental and real-life conditions

### Ambient conditions

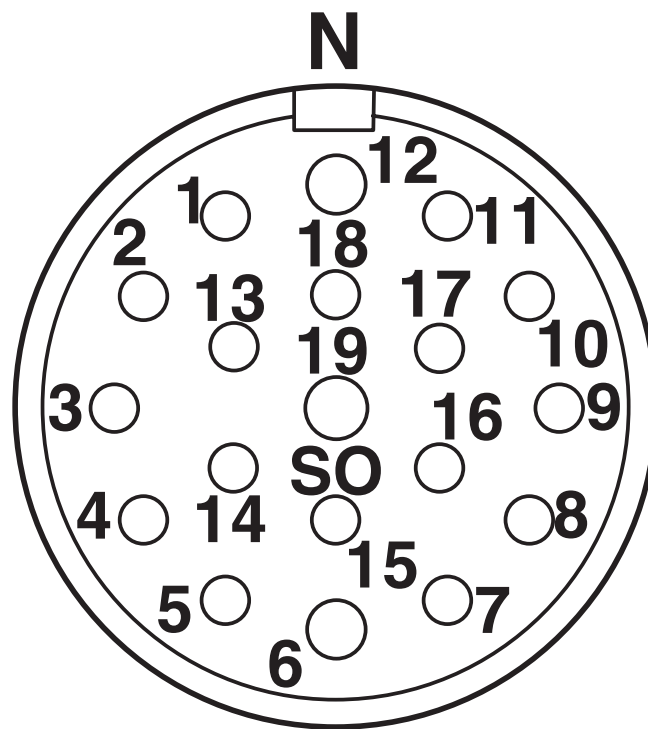
Degree of protection	IP65 IP67
Ambient temperature (operation)	-40 °C ... 125 °C (Plug / socket)

Drawings

Circuit diagram



Schematic diagram



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

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## Classifications

### ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

### ETIM

ETIM 8.0	EC001855
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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