

RCK-TGUM/BL12/10,0PUR-U - Master cable



1684027

<https://www.phoenixcontact.com/us/products/1684027>

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Master cable, application: Sensor/actuator box, connection method: M12 socket Plastic, number of positions: 12, slot assignment: single, status display: No; master cable connection: M23 plug connection, PUR/PVC, cable length: 10 m, shielding: no, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1260769

Commercial data

Item number	1684027
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB37
Product key	ABRDCA
Catalog page	Page 128 (PC-2009)
GTIN	4017918172091
Weight per piece (including packing)	1,142 g
Weight per piece (excluding packing)	1,185.445 g
Customs tariff number	85444290
Country of origin	DE

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Technical data

Notes

General	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	12
Application	Sensor/actuator box

Electrical properties

Nominal voltage U_N	48 V AC
	60 V DC

Signaling

Status display present	No
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Material specifications

Material	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


Connection 2

Head design	free cable end
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Cable/line

Cable length	10 m
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PUR/PVC black [PUR]

Dimensional drawing	
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Cable weight	107.4 kg/km
UL AWM Style	20549 (80°C/300 V)
Number of positions	11
Shielded	no
Cable type	PUR/PVC black [PUR]
Conductor structure signal line	19x 0.15 mm
AWG signal line	22
Conductor cross section	8x 0.34 mm ² (Signal line) 3x 0.75 mm ² (power line)
Wire diameter incl. insulation	1.3 mm ±0.1 mm (Signal line) 1.8 mm ±0.1 mm (power line)
External cable diameter	8.5 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
Inner sheath thickness	≥ 0.15 mm
Thickness, outer sheath	≥ 0.38 mm
Overall twist	Wires twisted in layers
Max. conductor resistance	≤ 53 Ω/km (Signal line) ≤ 26 Ω/km (power line)
Insulation resistance	≥ 5 MΩ*km
Nominal voltage, cable	300 V AC
Test voltage Core/Core	2000 V (50 Hz, 5 min.)
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	10 x D
Max. bending cycles	1500000
Flame resistance	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

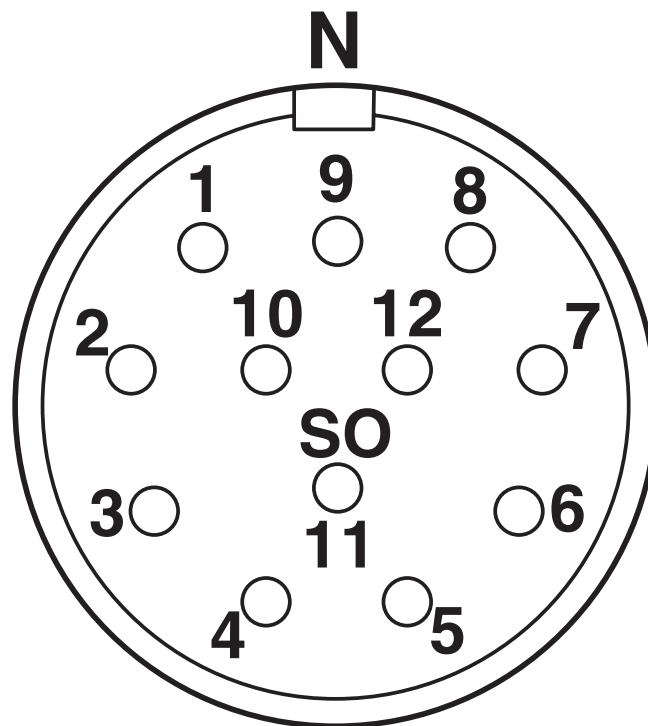
Degree of protection	IP65 IP67
Ambient temperature (operation)	-40 °C ... 125 °C (Plug / socket)

Mounting

Connection method	Fixed connection
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Drawings

Schematic diagram



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

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Approvals

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EAC

Approval ID: 19060508

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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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