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

1684014

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Master cable, application: Sensor/actuator box, number of positions: 12, slot assignment: single, status display: no; master cable connection: M23 plug connection, PUR/PVC, cable length: 5 m, shielding: no, this item is expected to be lead-free from Q3 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	1684014
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB34
Product key	ABRDCA
GTIN	4017918172107
Weight per piece (including packing)	608.9 g
Weight per piece (excluding packing)	589.144 g
Customs tariff number	85444290
Country of origin	DE

Technical data

Notes

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

Product properties

Product type	Master cable, assembled
Application	Sensor/actuator box
Number of positions	12

Electrical properties

Nominal voltage U_N	48 V AC
	60 V DC

Connection data

Connection method	Fixed connection

Signaling

Status display present	no

Material specifications

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

Cable/line

Cable length	5 m

PUR/PVC black [PUR]

Dimensional drawing	

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 structure, voltage supply	42x 0.15 mm
AWG power supply	18
Conductor cross-section	8x 0.34 mm² (Signal line)
	3x 0.75 mm² (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	8.50 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
Smallest bending radius, fixed installation	64 mm
Smallest bending radius, movable installation	85 mm
Dynamic load capacity (bending)	Max. bending cycles: 1500000, Bending radius: 10 x D, Traversing path: 2 m, Traversing rate: 2 m/s
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

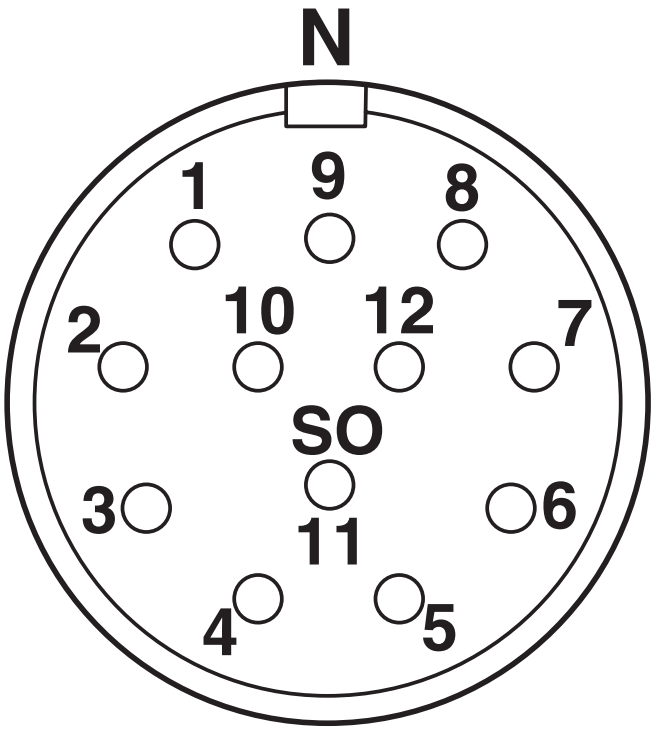
Ambient conditions

Degree of protection	IP65

	IP67
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 125 °C (Plug / socket)

Drawings

Schematic diagram



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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1684014

EAC
Approval ID: 19060508

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 10.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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