

Female connector - RCK-TGUM/BL12/10,0PUR-U - 1684027

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



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

Key commercial data

package_quantity	1
GTIN	4017918172091

Technical data

General

Rated voltage	48 V AC
Rated voltage	60 V DC
Number of positions	12

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) = 1 = WH
Slot/position = pin = conductor color	2 / 4 (A) = 2 = GN
Slot/position = pin = conductor color	3 / 4 (A) = 3 = YE
Slot/position = pin = conductor color	4 / 4 (A) = 4 = GY
Slot/position = pin = conductor color	5 / 4 (A) = 5 = PK
Slot/position = pin = conductor color	6 / 4 (A) = 6 = RD
Slot/position = pin = conductor color	7 / 4 (A) = 7 = BK

Female connector - RCK-TGUM/BL12/10,0PUR-U - 1684027

Technical data

Connection assignment

Slot/position = pin = conductor color	8 / 4 (A) = 8 = VT
Slot/position = pin = conductor color	1-8 / 1 (+ 48 V) = 11 = BN
Slot/position = pin = conductor color	1-8 / 3 (0 V) = 9+10 = 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	8x 0.34 mm ² (signal line)
Conductor cross section	3x 0.75 mm ² (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)
Core diameter including insulation	1.8 mm ±0.1 mm (power line)
Thickness, insulation	≥ 0.15 mm (Inner sheath)
Thickness, insulation	≥ 0.38 mm (Outer cable sheath)
Overall twist	Wires twisted in layers
External sheath, color	Black RAL 9005
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
Cable weight	107.4 kg/km
Outer sheath, material	PUR
Material, inner sheath	PVC
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	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)

Female connector - RCK-TGUM/BL12/10,0PUR-U - 1684027

Technical data

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 /

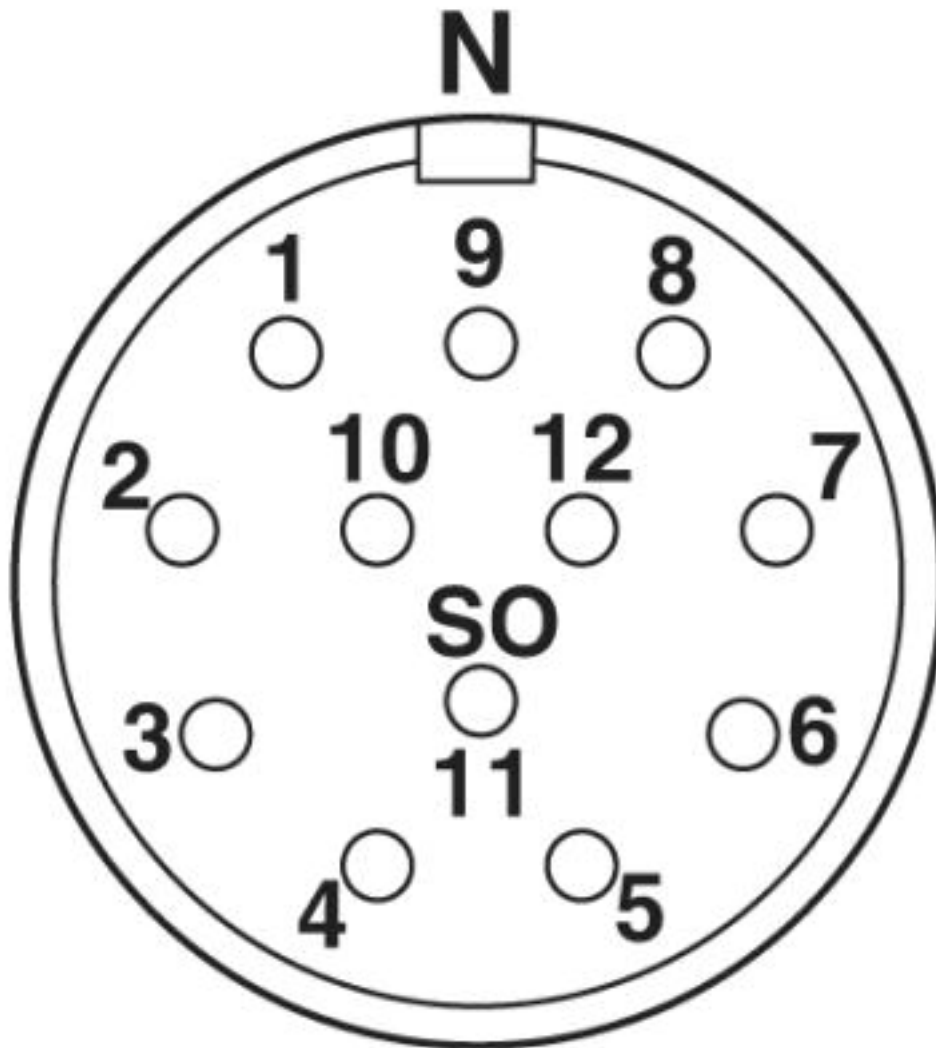
Approval details

 GOST
--

Drawings

Female connector - RCK-TGUM/BL12/10,0PUR-U - 1684027

Schematic diagram



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

Female connector - RCK-TGUM/BL12/10,0PUR-U - 1684027

Cable cross section



PUR/PVC black [PUR]

© Phoenix Contact 2013 - all rights reserved
<http://www.phoenixcontact.com>