SAC-12P-20,0-PUR/M16FR - Master cable

1105255

https://www.phoenixcontact.com/us/products/1105255

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 documentation. Our general terms of use for downloads are valid.



Master cable, application: Sensor/actuator box, number of slots: 8, number of positions: 12, status display: no, this item is expected to be lead-free from Q4 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	1105255
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB34
Product key	ABRDAB
GTIN	4055626976228
Weight per piece (including packing)	2,251 g
Weight per piece (excluding packing)	2,012.239 g
Customs tariff number	85444290
Country of origin	DE

Technical data

Product properties

Product type	Master cable, assembled
Application	Sensor/actuator box
Number of positions	12
Number of slots	8

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

Seal material	NBR

Cable/line

PUR/PVC black [PUR]

Dimensional drawing	
Cable weight	92 kg/km
UL AWM Style	20549
Number of positions	10
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)
	2x 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	7.90 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, 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
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
Smallest bending radius, fixed installation	60 mm
Smallest bending radius, movable installation	79 mm
Dynamic load capacity (bending)	Max. bending cycles: 1500000, Bending radius: 79 mm, 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)
	80 °C (in acc. with UL)

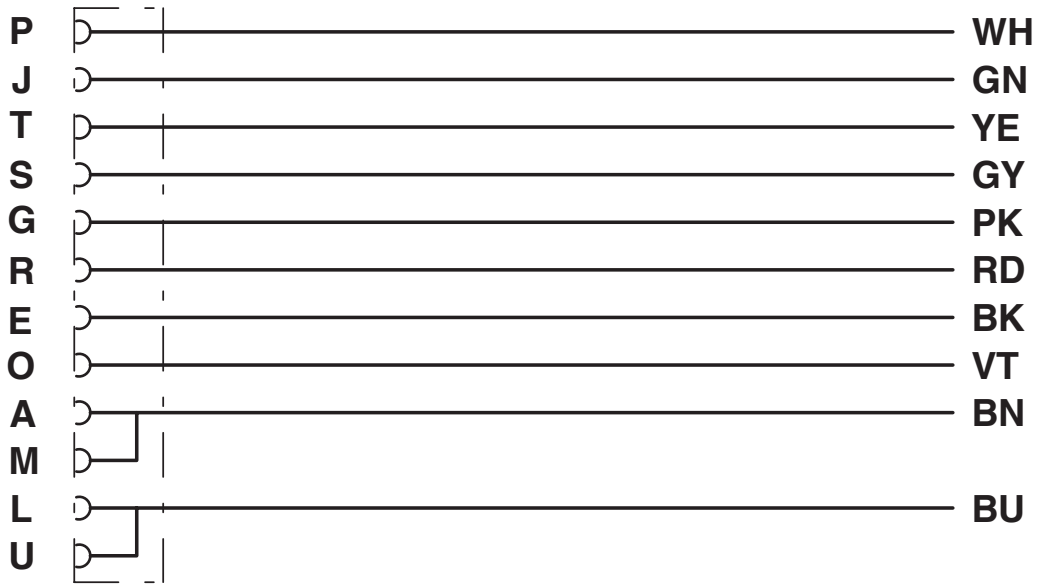
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 90 °C (cable, fixed installation)

Drawings

Circuit diagram



Contact assignment of the M16 socket

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1105255

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
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	0bc8e931-7437-4a92-ad92-cc519f0a6388

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com