

# 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 2025 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## 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

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

1105255

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



## 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

### 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 mm <sup>2</sup> (Signal line) 2x 0.75 mm <sup>2</sup> (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

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



1105255

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

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	$\geq 0.15$ mm
Thickness, outer sheath	$\geq 0.38$ 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)

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

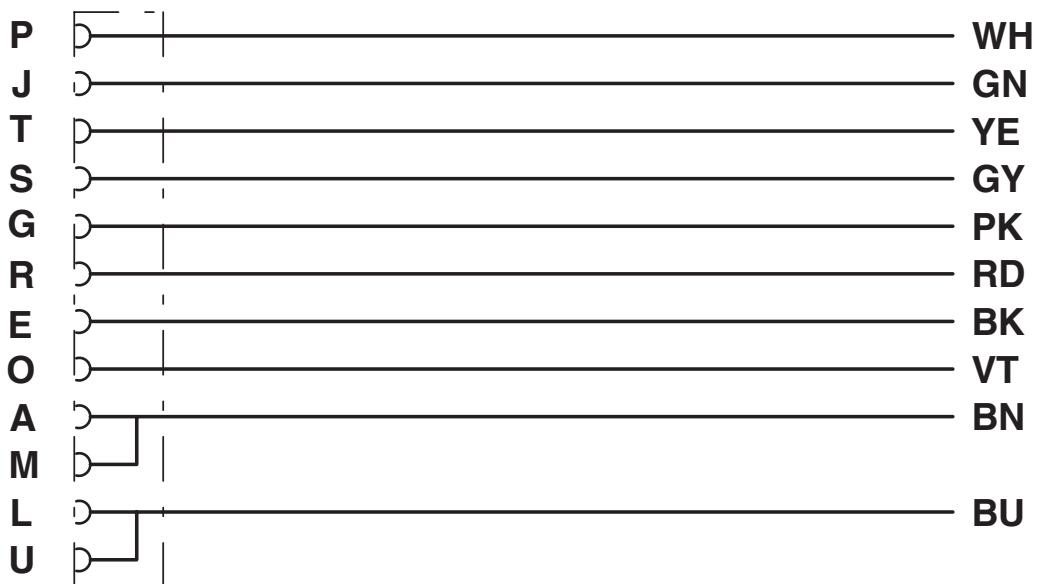


1105255

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

## Drawings

Circuit diagram



Contact assignment of the M16 socket

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



1105255

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

## Approvals

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



**EAC**

Approval ID: 19060508

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

1105255

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



## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

### ETIM

ETIM 9.0	EC001855
----------	----------

### UNSPSC

UNSPSC 21.0	26121600
-------------	----------

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

1105255

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



## 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 2025 © - 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](mailto:info@phoenixcon.com)