

SAC-8P- 5,0-PURMC/M12FR - Master cable



1407822

<https://www.phoenixcontact.com/us/products/1407822>

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.



M12 socket, angled, 8-pos., with connected master cable, for sensor/actuator box with M8 slots, cable length: 5 m

Commercial data

Item number	1407822
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	AF1CFA
GTIN	4046356857505
Weight per piece (including packing)	247 g
Weight per piece (excluding packing)	236 g
Customs tariff number	85444290
Country of origin	PL

SAC-8P- 5,0-PURMC/M12FR - Master cable

1407822

<https://www.phoenixcontact.com/us/products/1407822>



Technical data

Product properties

Product type	Master cable, assembled
Application	Sensor/actuator box
Number of positions	8
Number of slots	6
Coding	A

Electrical properties

Nominal voltage U_N	30 V AC
	30 V DC

Connection data

Connection method	Fixed connection
-------------------	------------------

Signaling

Status display present	no
------------------------	----

Material specifications

Material Housing	PUR
Material Threaded sleeve	Cu alloy
Flammability rating according to UL 94	HB
Seal material	NBR
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	TPU GF

Connector

Connection 1	
Coding type	A

Cable/line

Cable length	5 m
--------------	-----

PUR halogen-free black [PUR]

Dimensional drawing



SAC-8P- 5,0-PURMC/M12FR - Master cable



1407822

<https://www.phoenixcontact.com/us/products/1407822>

Cable weight	46 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	8
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	8x 0.25 mm ² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	5.90 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material, filler	PE
Material wire insulation	PP
Single wire, color	white, brown, green, yellow, gray, pink, blue, red
Thickness, insulation	≥ 0.21 mm
Thickness, outer sheath	approx. 0.80 mm
Overall twist	8 wires around filler to the core
Max. conductor resistance	≤ 78 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Wave impedance	100 Ω +15 % (with 1 MHz)
Cable capacity	≤ 70 pF/m
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Minimum bending radius, fixed installation	8 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	48 mm
Smallest bending radius, movable installation	59 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 59 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥1000000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2
Resistance to oil	According to DIN EN 60332-2-2 (20 s)
Other resistance	in accordance with DIN EN 60811-2-1 Highly resistant to acids, alkaline solutions and solvents hydrolysis and microbe resistant partly UV-resistant (in accordance with DIN EN ISO 4892-2-A) Low adhesion abrasion-resistant
Special properties	Flexible cable conduit capable Silicone-free

SAC-8P- 5,0-PURMC/M12FR - Master cable

1407822

<https://www.phoenixcontact.com/us/products/1407822>



	Free of substances which would hinder coating with paint or varnish
	flexible
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-25 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 80 °C (Plug / socket)

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

SAC-8P- 5,0-PURMC/M12FR - Master cable

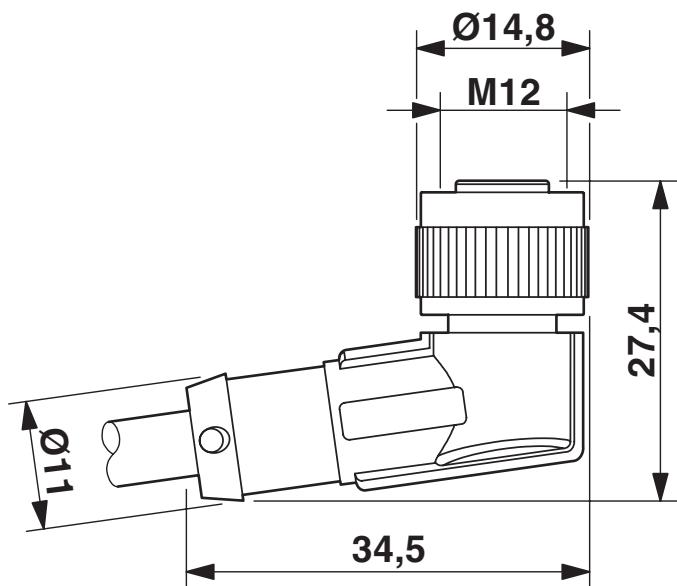


1407822

<https://www.phoenixcontact.com/us/products/1407822>

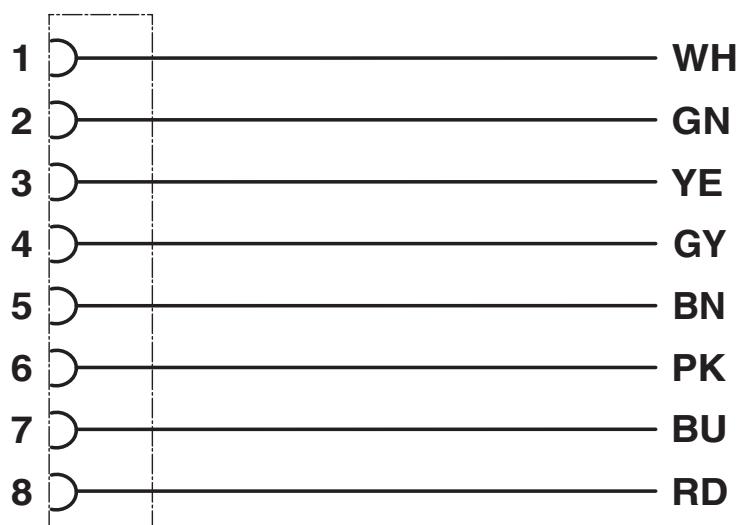
Drawings

Dimensional drawing



M12 x 1 socket, angled

Circuit diagram



SAC-8P- 5,0-PURMC/M12FR - Master cable

1407822

<https://www.phoenixcontact.com/us/products/1407822>



Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1407822>



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387

SAC-8P- 5,0-PURMC/M12FR - Master cable

1407822

<https://www.phoenixcontact.com/us/products/1407822>



Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

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

UNSPSC

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

SAC-8P- 5,0-PURMC/M12FR - Master cable

1407822

<https://www.phoenixcontact.com/us/products/1407822>



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%
-------------------------------------	----------------------------

EF3.0 Climate Change

CO2e kg	3.964 kg CO2e
---------	---------------

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