SAC-14P- 5,0-PUR/M16FR - Master cable

1693746

https://www.phoenixcontact.com/ae/products/1693746

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Master cable, application: Sensor/actuator box, number of slots: 10, number of positions: 14, slot assignment: single, status display: no; master cable connection: M16 plug connection, PUR/PVC, cable length: 5 m, shielding: 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	1693746
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB
Product key	ABRDAB
GTIN	4017918189082
Weight per piece (including packing)	676.3 g
Weight per piece (excluding packing)	639.256 g
Customs tariff number	85444290
Country of origin	DE

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Technical data

Product properties

Product type	Master cable, assembled
Application	Sensor/actuator box
Number of positions	14
Number of slots	10

Electrical properties

Nominal voltage U_N	48 V AC
	60 V DC

Connection data

Connection method	Fixed connection

Signaling

Status display present	no

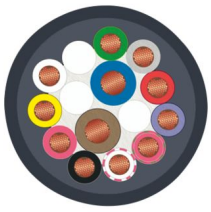
Material specifications

Material Housing	PUR
Material Threaded sleeve	Cu alloy
Seal material	NBR
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of contact, master cable side	CU alloy
Material of the contact carrier on the master cable side	TPU
Material of contact surface, master cable side	gold-plated

Cable/line

Cable length	5 m

PUR/PVC black [PUR]

Dimensional drawing	
Cable weight	111.1 kg/km
UL AWM Style	20549
Number of positions	12

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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	10x 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	8.60 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, white/pink, pink/brown
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	65 mm
Smallest bending radius, movable installation	86 mm
Dynamic load capacity (bending)	Max. bending cycles: 1500000, Bending radius: 86 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

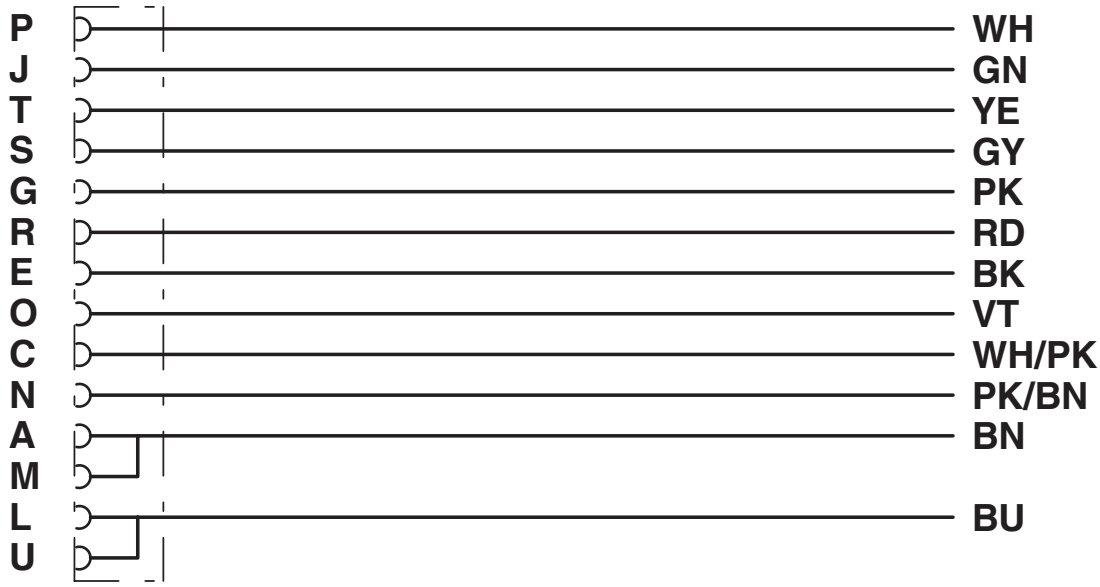
Ambient conditions

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)

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Drawings

Circuit diagram



Contact assignment of the M16 socket

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Approvals

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EAC
Approval ID: 19060508

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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 9.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

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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	60758a2b-0698-4c23-a968-8565a2424a8d

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