

Sensor/Actuator cable - SAC-3P-MR/10,0-647 SCO BK - 1410256

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://phoenixcontact.com/download>)



Sensor/Actuator cable, 3-position, TPE, yellow RAL 1021, Plug angled M12 SPEEDCON, A-coded, on free cable end, Cable length: 10 m



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	534.6 g
Country of origin	United States

Technical data

Dimensions

Length of cable	10 m
-----------------	------

Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
Degree of protection	IP65/IP67

General

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	3
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Protective circuit/component	Unwired
Overvoltage category	II
Degree of pollution	3
Torque	0.4 Nm (M12 connector)

Sensor/Actuator cable - SAC-3P-MR/10,0-647 SCO BK - 1410256

Technical data

Material

Flammability rating according to UL 94	HB
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated

Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	HB

Cable

Cable type	TPE yellow 105 °C
Cable type (abbreviation)	647
UL AWM style	20327 (105°C/300 V)
AWG signal line	18
Conductor structure signal line	41x 0.16 mm
Core diameter including insulation	1.8 mm
Thickness, insulation	0.23 mm
Overall twist	3 wires, twisted
External sheath, color	yellow
Outer sheath thickness	0.89 mm
External cable diameter D	5.7 mm ±0.25 mm
Cable weight	23 kg/km
Outer sheath, material	TPE
Material conductor insulation	PVC
Nominal voltage, cable	300 V
Flame resistance	According to FT1
Resistance to oil	OIL RES I according to UL 2256
Other resistance	UV resistant (720 h) to UL 2256
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)

Classifications

eCl@ss

eCl@ss 5.1	27061801
eCl@ss 6.0	27061801

Sensor/Actuator cable - SAC-3P-MR/10,0-647 SCO BK - 1410256

Classifications

eCl@ss

eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

Accessories

Accessories

Protective cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 sockets



Safety locking

Locking clip - SAC-M12-EXCLIP-M - 1558988



Locking clip for the pin side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools

Screwdriver tools

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

Tool - SAC BIT M12-D15 - 1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

Sensor/Actuator cable - SAC-3P-MR/10,0-647 SCO BK - 1410256

Accessories

Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

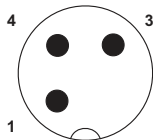
Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

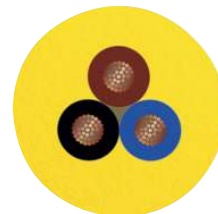
Drawings

Schematic diagram



Pin assignment M12 plug, 3-pos., A-coded, view male side

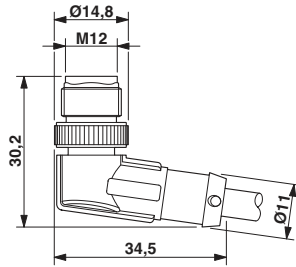
Cable cross section



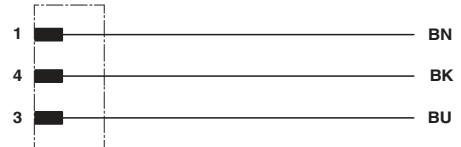
TPE yellow 105 °C [647]

Sensor/Actuator cable - SAC-3P-MR/10,0-647 SCO BK - 1410256

Dimensional drawing



Circuit diagram



Contact assignment of the M12 plug

M12 x 1 male plug, angled