

Sensor/actuator cable - SAC-3P-MR/ 3,0-647/FR SCO BK - 1415130


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Sensor/actuator cable, 3-position, TPE, yellow, Plug angled M12 SPEEDCON, coding: A, on Socket angled M12 SPEEDCON, coding: A, cable length: 3 m



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 048468
GTIN	4055626048468
Weight per Piece (excluding packing)	110.000 g
Custom tariff number	85444290
Country of origin	United States

Technical data

Dimensions

Length of cable	3 m
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Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
Degree of protection	IP65
	IP67
	IP68

General

Rated current at 40°C	4 A
Rated voltage	250 V AC
	250 V DC

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Technical data

General

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)

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
Sealing material	NBR

Standards and Regulations

Standards/specifications	M12 connector 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

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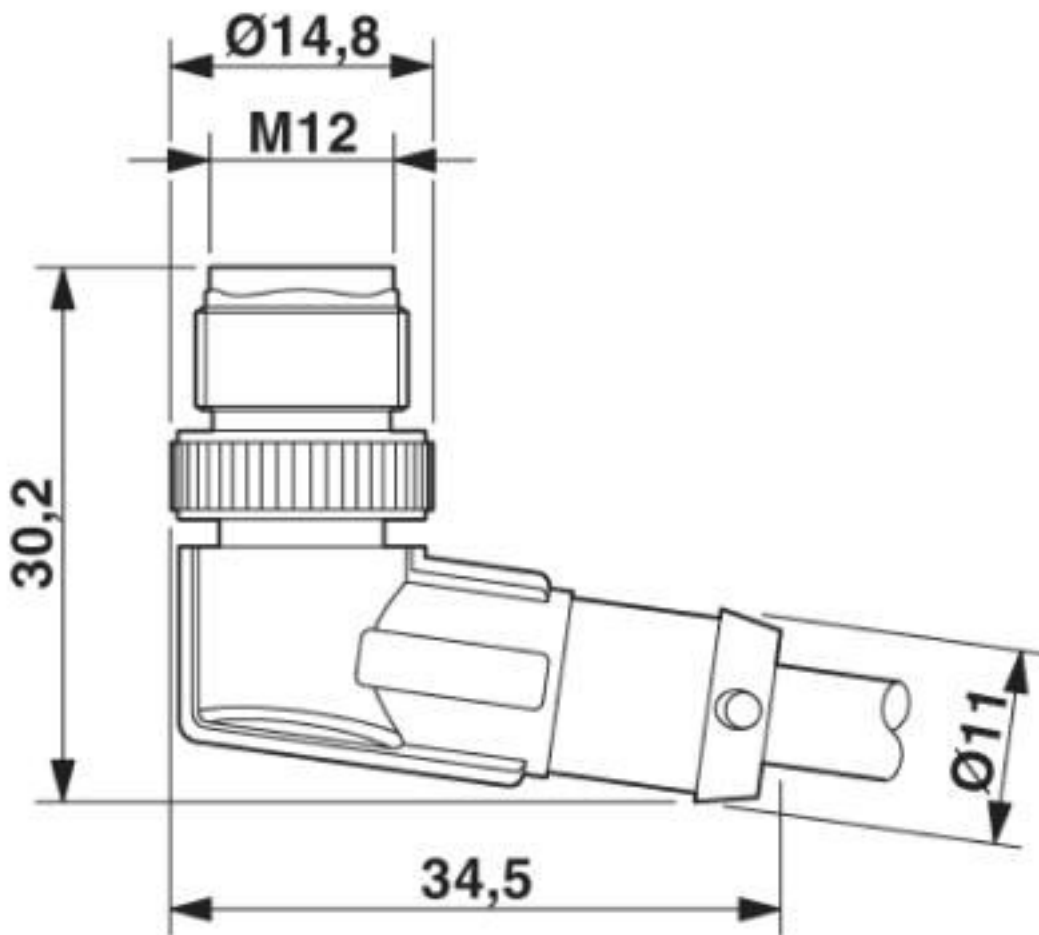
Technical data

Cable

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)

Drawings

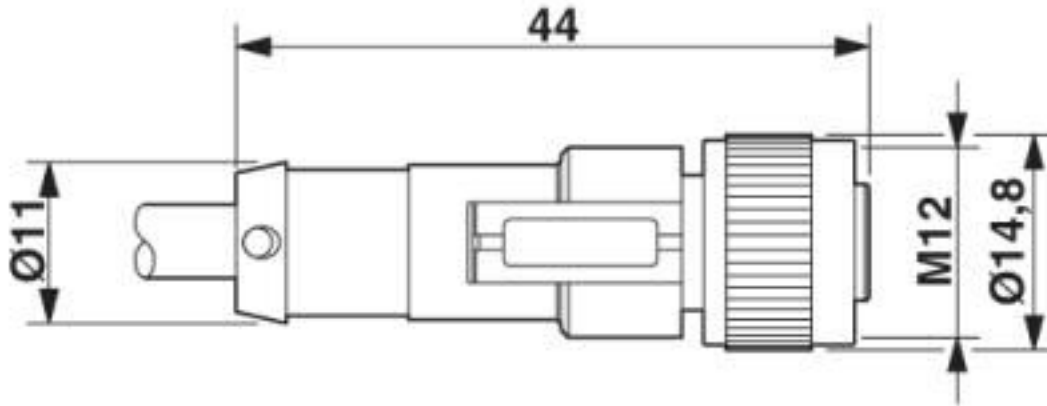
Dimensional drawing



M12 x 1 male plug, angled

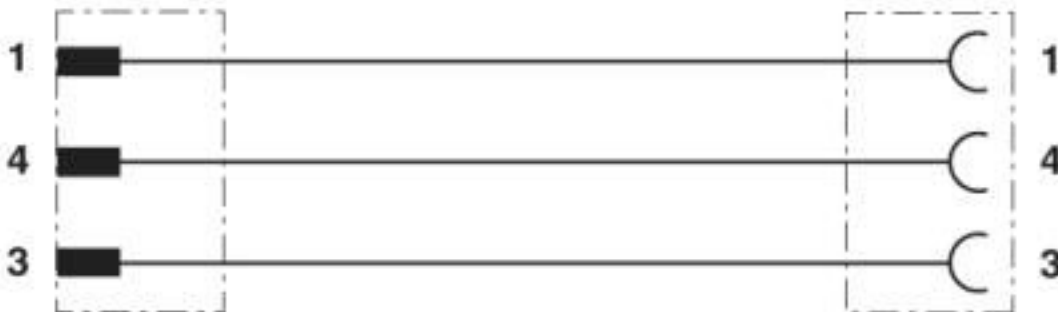
Sensor/actuator cable - SAC-3P-MR/ 3,0-647/FR SCO BK - 1415130

Dimensional drawing



M12 x 1 socket, straight

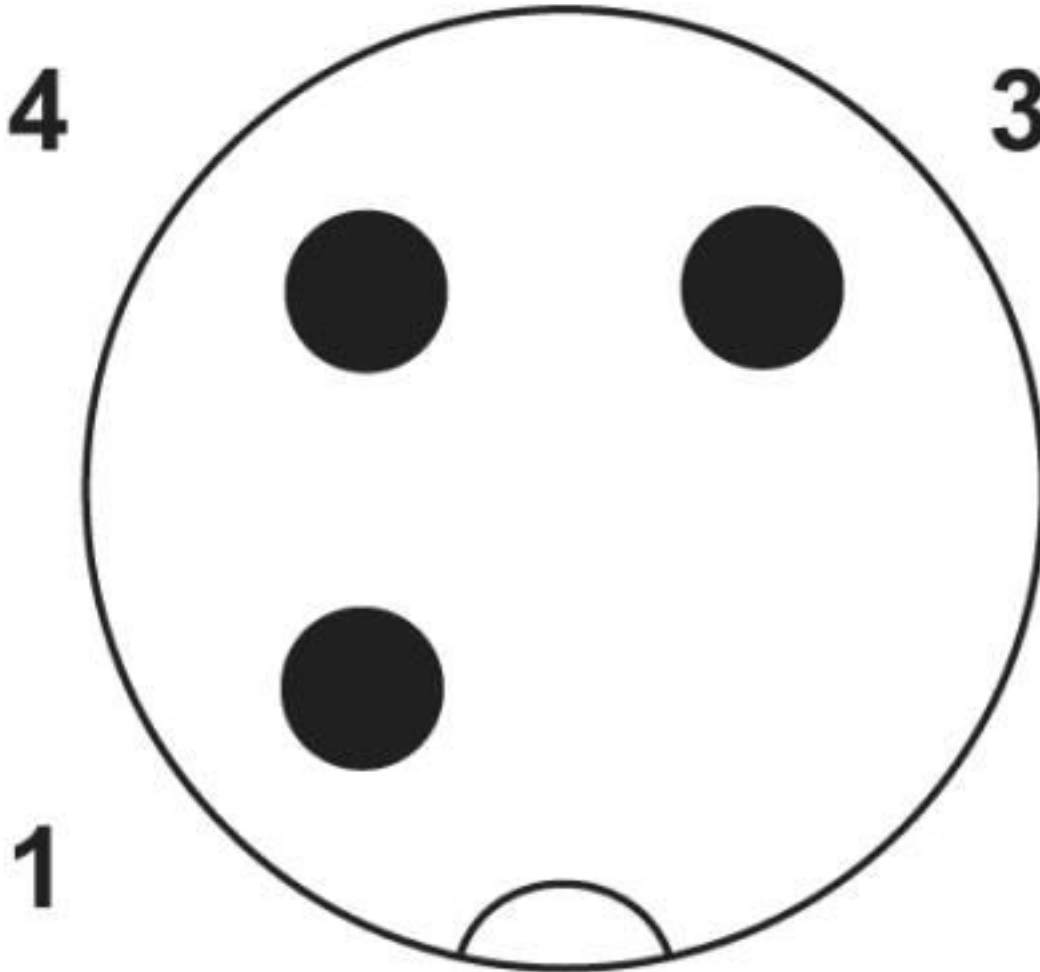
Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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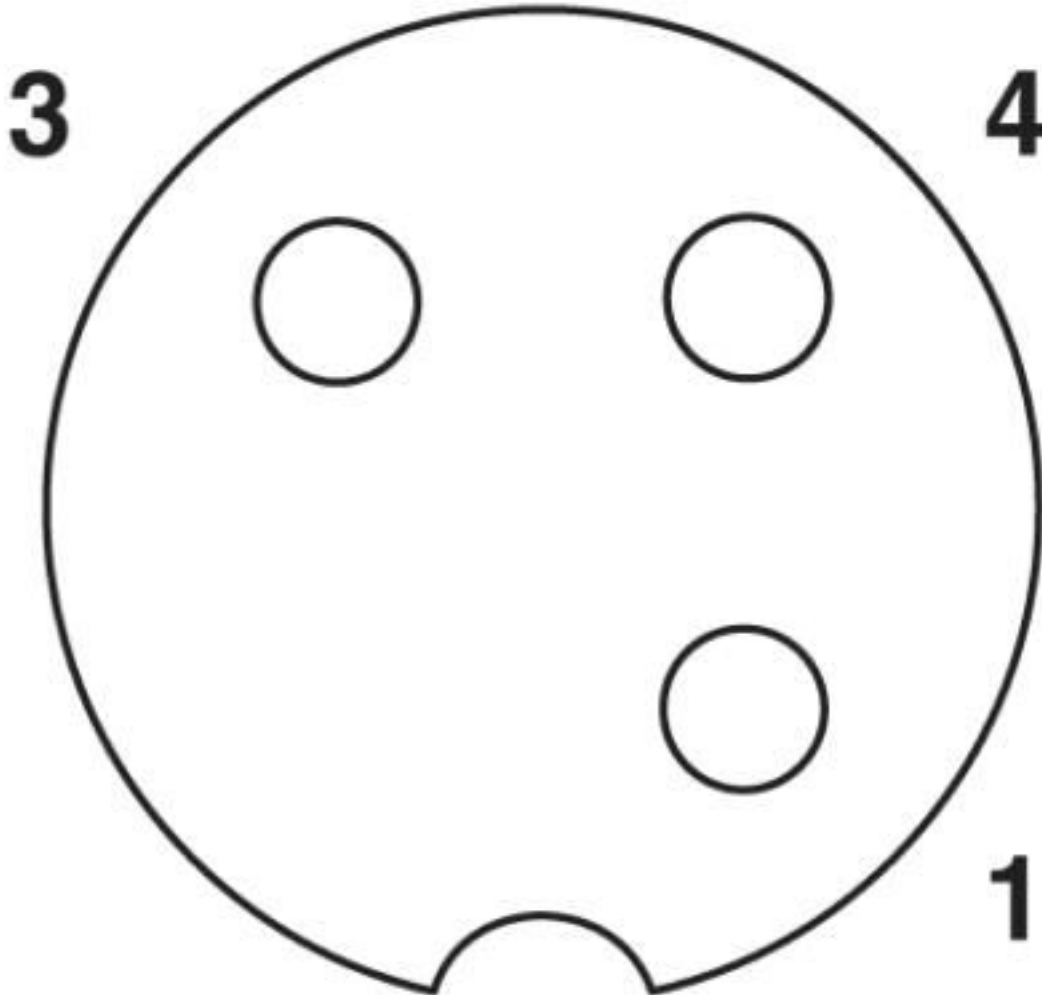
Schematic diagram



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

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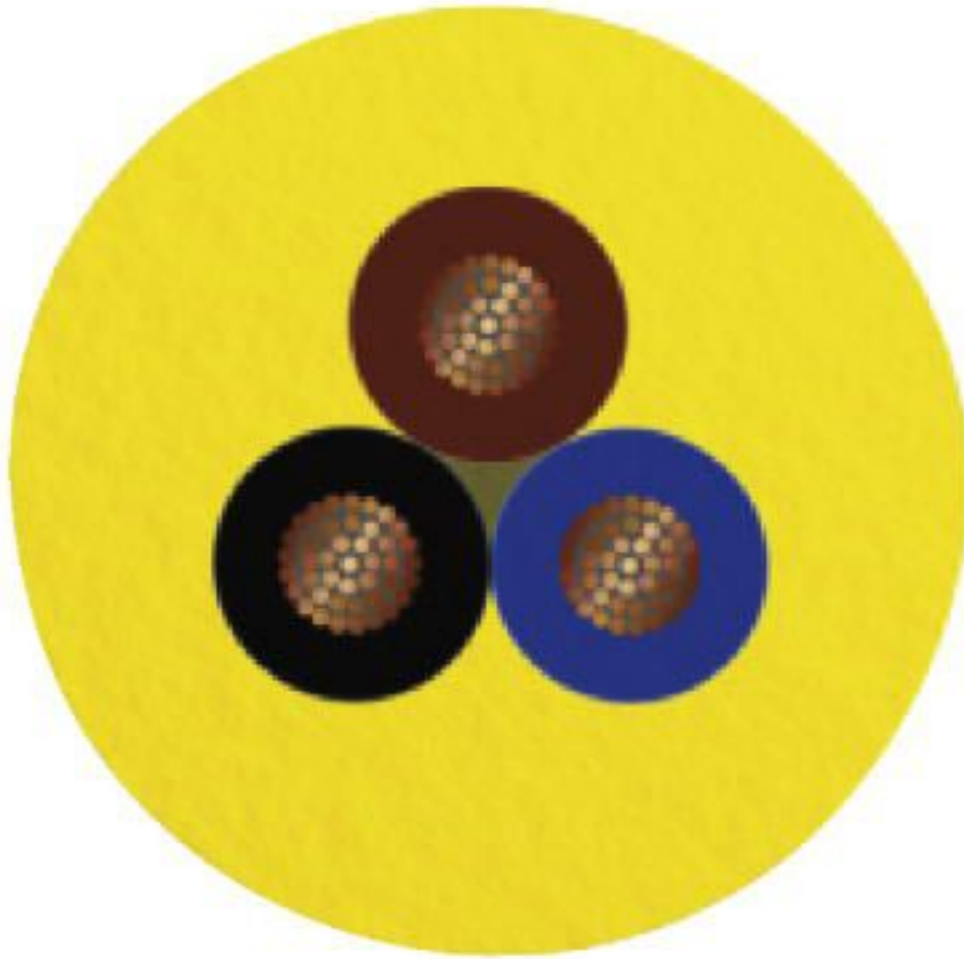
Schematic diagram



Pin assignment M12 socket, 3-pos., A-coded, view female side

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Cable cross section



TPE yellow 105 °C [647]

Classifications

eCl@ss

eCl@ss 5.1	27061800
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

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Classifications

ETIM

ETIM 5.0	EC001855
ETIM 6.0	EC001855

UNSPSC

UNSPSC 13.2	31251501
UNSPSC 19.0	31251501

Accessories

Accessories

Plug for cable screw gland

Screw plug - PROT-M12 MS-PA-CHAIN - 1430899

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



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 plugs



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



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Accessories

Locking clip - SAC-M12-EXCLIP-F - 1558991



Locking clip for the socket 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

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

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Accessories

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