

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, 4-position, TPE, yellow RAL 1021, Plug straight M12 SPEEDCON, A-coded, on Socket angled M12 SPEEDCON, A-coded, Cable length: 3 m



## Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	1.0 g
Country of origin	United States

## Technical data

#### Dimensions

Length of cable	3 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	4
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)



### Technical data

#### Material

Flammability rating according to UL 94	НВ
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

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

#### 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	4 wires, twisted
External sheath, color	yellow
Outer sheath thickness	0.89 mm
External cable diameter D	6 mm ±0.25 mm
Cable weight	31 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
------------	----------



### Classifications

eCl@ss

eCl@ss 6.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

#### ETIM

ETIM 5.0	EC001855

#### 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



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

M12 sealing cap 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



#### 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

05/26/2016 Page 4 / 5



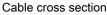
Accessories

## Drawings

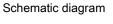
Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side



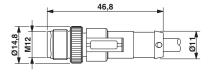






Pin assignment M12 socket, 4-pos., A-coded, view female side

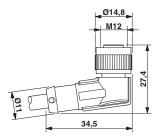
#### Dimensional drawing



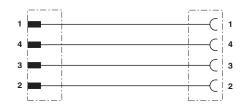
TPE yellow 105 °C [647]

M12 x 1 plug, straight

#### Dimensional drawing



Circuit diagram



Contact assignment of the M12 plug and the M12 socket

M12 x 1 socket, angled

Phoenix Contact 2016  $\ensuremath{\mathbb{C}}$  - all rights reserved http://www.phoenixcontact.com