Chipsmall

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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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PHŒNIX CONTACT

Sensor/Actuator cable - SAC-5P- 20,0-542/ FS SCO BK - 1417975

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Sensor/Actuator cable, 5-position, PVC, yellow RAL 1021, free cable end, on Socket straight M12 SPEEDCON, A-coded, Cable length: 20 m

Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	1.0 g
Custom tariff number	85444290
Country of origin	United States

Technical data

Dimensions

Length of cable	20 m

Ambient conditions

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

General

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	5
Insulation resistance	$\geq$ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Protective circuit/component	Unwired

PHŒNIX CONTACT

Sensor/Actuator cable - SAC-5P- 20,0-542/ FS SCO BK - 1417975

Technical data

General

Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	$\geq$ 100
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

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

Cable

Cable type	PVC yellow 105 °C
Cable type (abbreviation)	542
UL AWM style	2517 (105°C/300 V)
AWG signal line	22
Core diameter including insulation	1.27 mm ±0.03 mm
Wire colors	Brown, blue, black, white, gray
Overall twist	5 wires around filler to the core
External sheath, color	yellow
External cable diameter D	5.4 mm ±0.2 mm
Minimum bending radius, flexible installation	8 x D
Cable weight	43 kg/km
Outer sheath, material	PVC
Material, filler	PP
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires
Insulation resistance	$\geq$ (550 M Ohms/m @ 500V)
Conductor resistance	max. 50.5 Ω/km (20° C)
Nominal voltage, cable	300 V
Special properties	UL standards PLTC and ITC

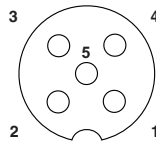# Sensor/Actuator cable - SAC-5P- 20,0-542/ FS SCO BK - 1417975

Technical data

Cable

Other resistance	UV resistant
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)

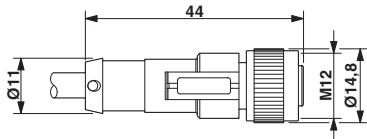## Drawings

Schematic diagram

Pin assignment M12 socket, 5-pos., A-coded, socket side view

Cable cross section

PVC yellow 105 °C [542]

Dimensional drawing

M12 x 1 socket, straight

Circuit diagram

1	BN
2	WH
4	BK
3	BU
5	GY

Contact assignment of the M12 sockets

Classifications

eCl@ss

eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 5.0	EC001855

Accessories

Accessories

Protective cap

Sensor/Actuator cable - SAC-5P- 20,0-542/ FS SCO BK - 1417975

Accessories

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-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

Sensor/Actuator cable - SAC-5P- 20,0-542/ FS SCO BK - 1417975

Accessories

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