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Sensor/actuator cable, 8-position, PVC, yellow, free cable end, on Socket straight M12 SPEEDCON, A-coded, cable length: 15 m



Key Commercial Data

Packing unit	1 pc	
GTIN	4 055626 211671	
GTIN	4055626211671	
Weight per Piece (excluding packing)	720.000 g	
Custom tariff number	85444290	
Country of origin	United States	

Technical data

Dimensions

Length of cable	15 m

Ambient conditions

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

General

Rated current at 40°C	2 A
Rated voltage	30 V AC
	30 V DC



Technical data

General

Number of positions	8	
Color handle area	black	
Insulation resistance	\geq 100 M Ω	
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	
Insertion/withdrawal cycles	≥ 100	
Torque	0.4 Nm (M12 connector)	

Material

Flammability rating according to UL 94	НВ	
Contact material	CuZn	
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	PVC yellow 105 °C	
Cable type (abbreviation)	542	
UL AWM style	2517 (105 °C / 300 V)	
AWG signal line	24	
Conductor structure signal line	32x 1.10 mm	
Core diameter including insulation	1.12 mm ±0.03 mm	
Wire colors	white, brown, green, yellow, gray, pink, blue, red	
Overall twist	8 wires around filler to the core	
External sheath, color	yellow	
External cable diameter D	5.7 mm ±0.2 mm	
Minimum bending radius, flexible installation	8 x D	
Cable weight	44 kg/km	



Technical data

Cable

Outer sheath, material	PVC	
Material, filler	PP	
Material conductor insulation	PVC	
Conductor material	Tin-plated Cu litz wires	
Insulation resistance	≥ (550 M Ohms/m @ 500V)	
Conductor resistance	max. 79.7 Ω/km (20 °C)	
Nominal voltage, cable	300 V	
Flame resistance	FT4	
Other resistance	UV resistant	
Ambient temperature (operation)	-30 °C 105 °C (cable, fixed installation)	
	-5 °C 105 °C (cable, flexible installation)	

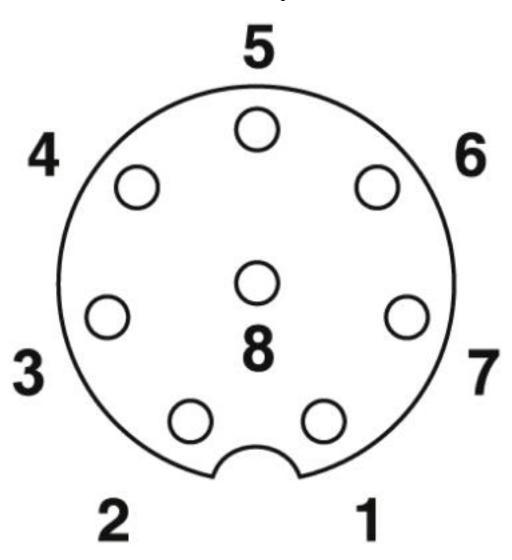
Environmental Product Compliance

	Lead 7439-92-1	
China RoHS	Environmentally Friendly Use Period = 50	
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"	

Drawings

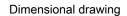


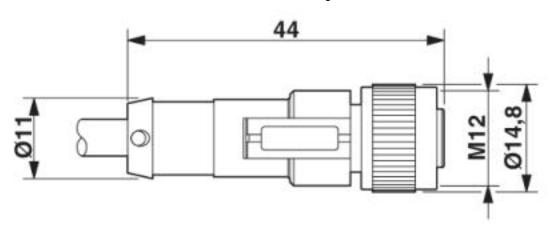
Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

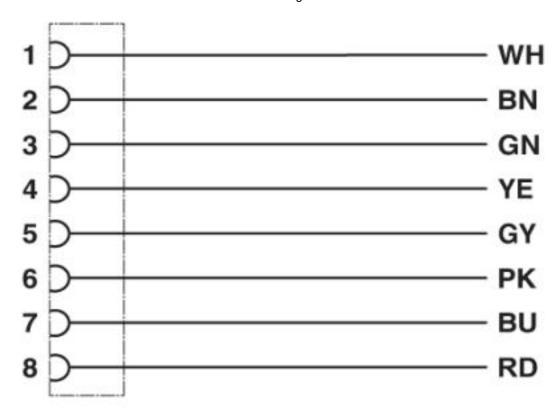






M12 x 1 socket, straight

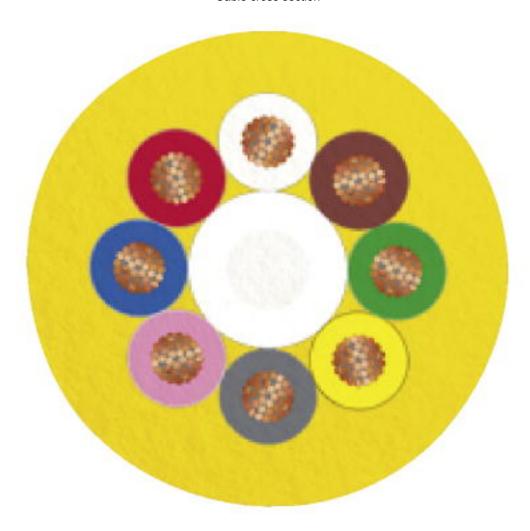
Circuit diagram



Contact assignment of the M12 socket



Cable cross section



PVC yellow 105 °C [542]

Classifications

eCl@ss

eCl@ss 5.1	27061801
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311



Classifications

F.	ΤI	М
_		1 V I

ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855
UNSPSC	

UNSPSC 13.2	31251501

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed	LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 22147		FILE E 221474
Nominal voltage UN			30 V	
Nominal current IN			2 A	

cUL Listed	C UL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 22147		FILE E 221474
Nominal voltage UN			30 V	
Nominal current IN			2 A	

EAC RU C-DE.BL08.B.00



Approvals

cULus Listed



Accessories

Accessories

Conductor marking

Insert label - PABA WH/23 - 1013779



Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 20

Insert label - PABA YE/23 - 1013782



Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 20

Corrugated pipe

Protective hose - WP-PA HF 13,0 BK - 3240681



Polyamide protective hose, inflammability class V0, UV resistant

Protective hose - WP-PA HF-HB 13,0 BK - 3240839



Polyamide protective hose, inflammability class HB, UV resistant



Accessories

Cutting tools

Diagonal cutter - CUTFOX-S VDE - 1212207



Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Protective cap

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



Accessories

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

Stripping tool

Stripping tool - WIREFOX SAC-1 - 1212757



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from \emptyset of 3.2 to 4.4 mm, any stripping length

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from \emptyset of 4.4 to 7 mm, any stripping length

Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade



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

Protective hose adapter - WP-CTA POM 13,0 BK - 1422884



Protective hose adapter, for corrugated hoses with a nominal size of 13 (10 x 13), corrugated in parallel

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