

1522888

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Sensor/actuator cable, 8-position, PUR halogen-free, black-gray RAL 7021, shielded, free cable end, on Socket straight M12, coding: A, cable length: 5 m

Your advantages

- Easy and safe: 100% electrically tested plug-in components
- Reliable signal transmission 360° shielding in environments with electromagnetic interference

Commercial Data

Item number	1522888
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF1
Product Key	BF1CMA
Catalog Page	Page 211 (C-2-2019)
GTIN	4017918957667
Weight per Piece (including packing)	288.733 g
Weight per Piece (excluding packing)	279 g
Customs tariff number	85444290
Country of origin	PL



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Technical Data

Product properties

Product type	Sensor/actuator cable
Number of positions	8
Application	Standard
No. of cable outlets	1
Shielded	yes
Coding	A
Insulation characteristics	
Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	НВ
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	30 V AC
	30 V DC
Nominal current I _N	2 A
Protective circuit	unwired

Mechanical properties

Mechanical data

Insertion/withdrawal cycles ≥ 100	
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Signaling

Status display	No
Status display present	No

Connection data

Conductor connection

Tightening torque	0.4 Nm (M12 connector)



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Connector

Connection 2

Cable/line

Cable length	5 m
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PUR halogen-free black [PUR]

Dimensional drawing



able weight	53 kg/km
L AWM Style	20549 / 10493 (80°C/300 V)
lumber of positions	8
nielded	yes
able type	PUR halogen-free black [PUR]
onductor structure signal line	32x 0.10 mm
WG signal line	24
onductor cross section	8x 0.25 mm² (Signal line)
/ire diameter incl. insulation	1.17 mm ±0.02 mm
xternal cable diameter	5.9 mm ±0.2 mm
outer sheath, material	PUR
xternal sheath, color	black-gray RAL 7021
onductor material	Bare Cu litz wires
laterial wire insulation	PP
ingle wire, color	brown, white, green, yellow, gray, pink, blue, red
hickness, insulation	approx. 0.2 mm
hickness, outer sheath	approx. 0.5 mm
verall twist	8 wires around filler to the core
ptical shield covering	85 %
lax. conductor resistance	≤ 78 Ω/km (at 20 °C)
sulation resistance	≥ 1 GΩ*km (at 20 °C)
ominal voltage, cable	≤ 300 V AC
est voltage	≥ 3000 V AC (Spark test)
est voltage Core/Shield	≥ 2000 V AC (for 60 s)
inimum bending radius, fixed installation	5 x D
nimum bending radius, flexible installation	10 x D
ax. bending cycles	2000000



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in accordance with DIN VIDE (M/2) part 815
in accordance with DIN VDE 0472 part 815
according to IEC 60754-1
in acc. with UL FT-2
according to UL 758/1581 (horizontal)
in accordance with UL 758/1581 FT2
According to DIN EN 60332-2-2 (20 s)
in accordance with IEC 60811-404
hydrolysis and microbe resistant
Resistant to salt water
low-abrasion
partly UV-resistant in accordance with DIN EN ISO 4892-2-A
Flexible cable conduit capable
-40 °C 80 °C (cable, fixed installation)
-25 °C 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)
	-25 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

Standards and regulations

Standards/specifications	IEC 61076-2-101

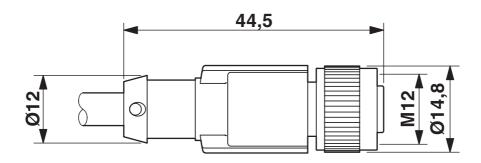


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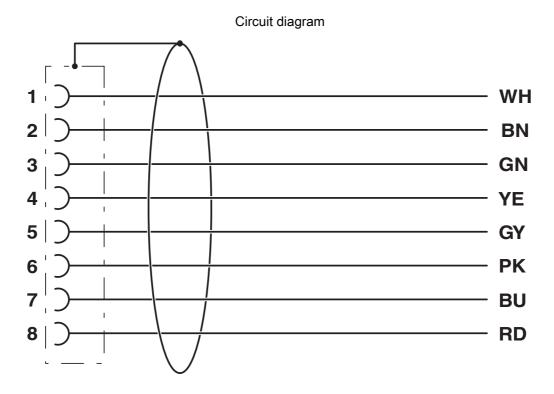
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Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

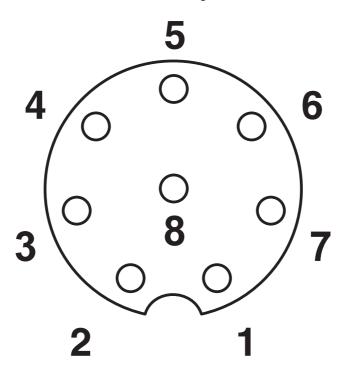




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Pin assignment M12 socket, 8-pos., A-coded, view female side



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Approvals

<u>(h)</u>	UL Listed Approval ID: FILE E 22147	4			
		Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		30 V	2 A	-	-

·	cUL Listed Approval ID: FILE E 22147	74			
		Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		30 V	2 A	-	-

ERC	EAC Approval ID: RU D-DE.HB35.B.00387



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27060311	
ECLASS-12.0	27060311	
ECLASS-13.0	27060311	
ETIM		
ETIM 8.0	EC001855	
UNSPSC		

26121600



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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e	
	No hazardous substances above threshold values	



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Accessories

PABA WH/23 - Insert label

1013779

https://www.phoenixcontact.com/in/products/1013779



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

PABA YE/23 - Insert label

1013782

https://www.phoenixcontact.com/in/products/1013782



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



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B-STIFT - Marker pen

1051993

https://www.phoenixcontact.com/in/products/1051993



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

CUTFOX-S VDE - Diagonal cutter

1212207

https://www.phoenixcontact.com/in/products/1212207



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



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WIREFOX SAC-1 - Stripping tool

1212757

https://www.phoenixcontact.com/in/products/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

WIREFOX SAC - Stripping tool

1212623

https://www.phoenixcontact.com/in/products/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



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WIREFOX 10 - Stripping tool

1212150

https://www.phoenixcontact.com/in/products/1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm^2 , self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm^2 stranded/1.5 mm^2 solid, replaceable stripping blade

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

1422884

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



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WP-PA HF 13,0 BK - Protective hose

3240681

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Protective hose, material: PA 6, UV-resistant: yes, flexible, degree of protection: IP68, color: black, flammability rating in acc. with UL 94: V0, inner diameter: 10 mm, Total length: 50 m

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

3240839

https://www.phoenixcontact.com/in/products/3240839



Protective hose, material: PA 6, UV-resistant: yes, flexible, degree of protection: IP68, color: black, flammability rating in acc. with UL 94: HB, inner diameter: 10 mm, Total length: 50 m



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PROT-M12 MS-PA-CHAIN - Screw plug

1430899

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



SAC-M12-EXCLIP-F - Locking clip

1558991

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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



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TSD 04 SAC - Torque screwdriver

1208429

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

TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/in/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm



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TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/in/products/1212600



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

SAC BIT M12-D15 - Tool

1208432

https://www.phoenixcontact.com/in/products/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

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PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in