

1412358

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Sensor/actuator cable, 8-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 42 m

Commercial data

Item number	1412358
Packing unit	1 pc
Minimum order quantity	25 рс
Product key	AF1CFA
GTIN	4046356958387
Weight per piece (including packing)	1,873.6 g
Weight per piece (excluding packing)	1,873.6 g
Country of origin	PL



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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	8
No. of cable outlets	1
Shielded	no
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
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	30 V AC
	30 V DC
Nominal current I _N	2 A
Max. conductor resistance	78 Ω/km

Mechanical properties

Mechanical data

Insertion/withdrawal cycles ≥ 1	100
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Signaling

Status display	no
Status display present	no

Connector

Connection 1

Туре	free cable end
Connection 2	



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Туре	Socket straight M12 SPEEDCON
Number of positions	8
Locking type	SPEEDCON
Coding type	A

Cable/line

Cable length 42 m	
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PUR halogen-free black [PUR]

Dimensional drawing



able weight	46 kg/km
L AWM Style	20549 / 10493 (80°C/300 V)
umber of positions	8
hielded	no
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)
fire diameter incl. insulation	1.17 mm ±0.02 mm
xternal cable diameter	5.90 mm ±0.15 mm
uter sheath, material	PUR
xternal sheath, color	black-gray RAL 7021
onductor material	Bare Cu litz wires
aterial, filler	PE
aterial wire insulation	PP
ingle wire, color	white, brown, green, yellow, gray, pink, blue, red
nickness, insulation	≥ 0.21 mm
nickness, outer sheath	approx. 0.80 mm
verall twist	8 wires around filler to the core
ax. conductor resistance	≤ 78 Ω/km (at 20 °C)
sulation resistance	≥ 1 GΩ*km (at 20 °C)
ave impedance	100 Ω +15 % (with 1 MHz)
able capacity	≤ 70 pF/m
ominal voltage, cable	≤ 300 V
est voltage	≥ 3000 V
inimum bending radius, fixed installation	8 x D
inimum bending radius, flexible installation	10 x D



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Smallest bending radius, fixed installation	48 mm
Smallest bending radius, movable installation	59 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 59 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥1000000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2
	According to DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
	Low adhesion
	abrasion-resistant
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
	flexible
Ambient temperature (operation)	-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
	IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C 90 °C (Plug / socket)

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

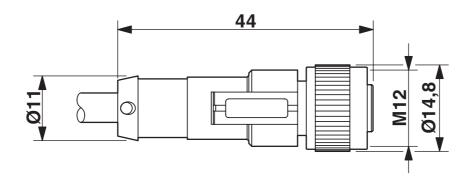


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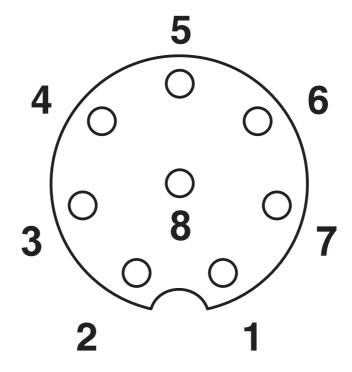
Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



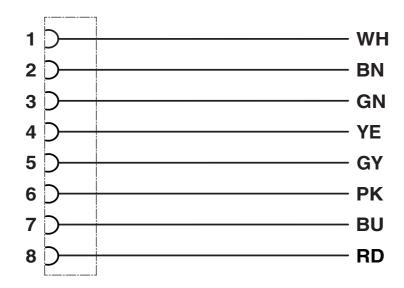
Pin assignment M12 socket, 8-pos., A-coded, view female side



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Circuit diagram



Contact assignment of the M12 socket



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Classifications

ECLASS

	ECLASS-13.0	27060311	
	ECLASS-15.0	27060311	
UNSPSC			
	UNSPSC 21.0	31251501	

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