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Sensor/actuator cable, 6-position, PUR halogen-free, yellow, free cable end, on Socket straight M12, coding: A, cable length: 10 m

Commercial data

Item number	1554212
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BF03
Product key	AF1CFA
GTIN	4046356163620
Weight per piece (including packing)	342.4 g
Weight per piece (excluding packing)	344.4 g
Customs tariff number	85444290
Country of origin	PL

SAC-6P-10,0-240/M12FS - Sensor/actuator cable



1554212

<https://www.phoenixcontact.com/us/products/1554212>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	6
No. of cable outlets	1
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	HB
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

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	2 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	no

Connector

Connection 1

Type	free cable end
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Connection 2

Type	Socket straight M12
Number of positions	6
Coding type	A

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Cable/line

Cable length	10 m
PUR halogen-free yellow [240]	
Cable weight	34 kg/km
Number of positions	6
Shielded	no
Cable type	PUR halogen-free yellow [240]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	0.25 mm ²
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	5 mm
Outer sheath, material	PUR
External sheath, color	yellow
Conductor material	Bare Cu litz wires
Material, filler	PE
Material wire insulation	PP
Single wire, color	brown, white, green, yellow, gray, pink
Thickness, insulation	≥ 0.21 mm (Core insulation)
	approx. 0.70 mm (Outer cable sheath)
Overall twist	Six cores around the filler to the core
Max. conductor resistance	≤ 78 Ω/km
Insulation resistance	≥ 100 GΩ*km
Nominal voltage, cable	300 V
Test voltage	3000 V
Smallest bending radius, fixed installation	50 mm
Smallest bending radius, movable installation	50 mm
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 50 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with DIN UL-Style 20549
Special properties	Flexible cable conduit capable
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

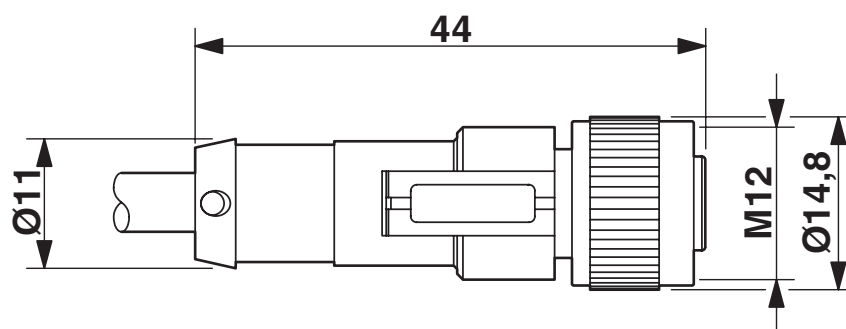
Environmental and real-life conditions

Ambient conditions

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

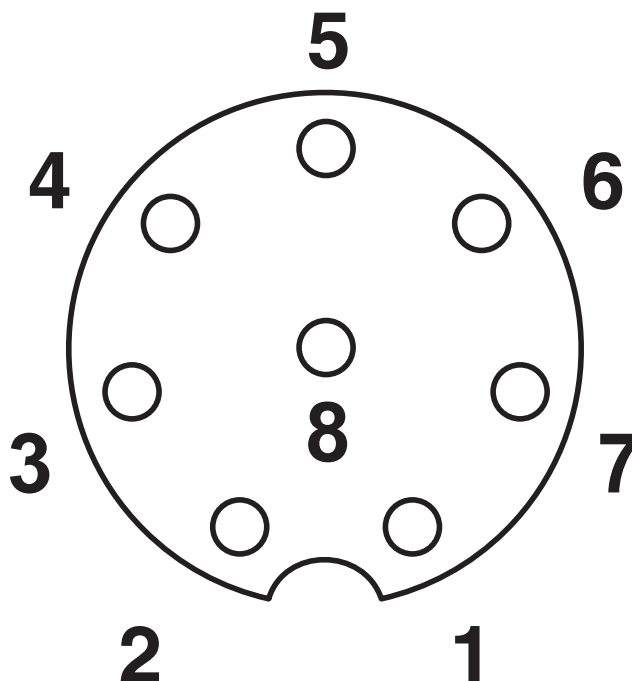
Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



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

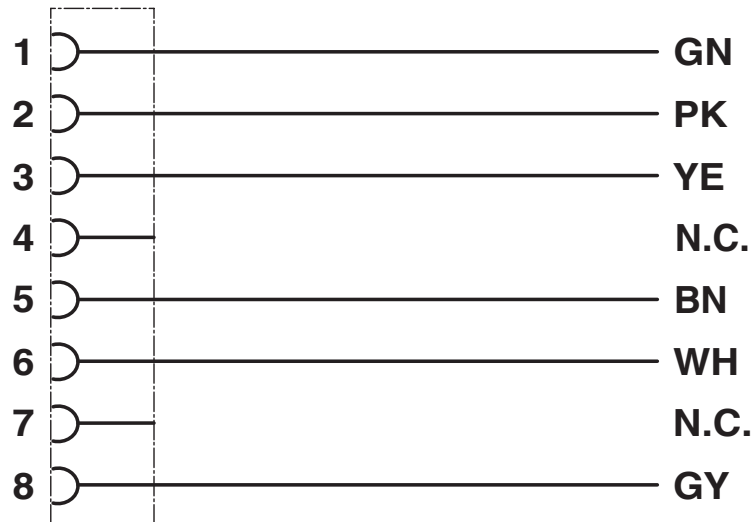
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Circuit diagram



Contact assignment of the M12 socket

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Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1554212>



EAC-RoHS

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

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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 9.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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EF3.0 Climate Change

CO2e kg	2.149 kg CO2e
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com