

1671441

https://www.phoenixcontact.com/au/products/1671441

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket angled M8, coding: A, with 2 LEDs and Socket angled M8, coding: A, with 2 LEDs, cable length: 3 m

Commercial data

Item number	1671441	
Packing unit	1 pc	
Minimum order quantity	1 pc	
Sales key	BF1COA	
Product key	BF1COA	
Catalog page	Page 250 (C-2-2019)	
GTIN	4017918135270	
Weight per piece (including packing)	133.7 g	
Weight per piece (excluding packing)	125 g	
Customs tariff number	85444290	
Country of origin	CN	



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Technical data

Product properties

Product type	Distributor with cable			
Number of positions	3			
Application	Standard			
No. of cable outlets	2			
Shielded	no			
Coding	A			
Insulation characteristics				
Overvoltage category	11			

Connection data

Tightening torque	0.4 Nm (M12 connector)	
	0.2 Nm (M8 connectors)	

Material specifications

Flammability rating according to UL 94	НВ	
Seal material	NBR	
Material of grip body TPU, hardly inflammable, self-extinguishing		
Contact material	CuSn	
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	24 V DC
Nominal current I _N	4 A

Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 100
Signaling	
Status display	2 LEDs
Status display present	Yes

Connector

Connection 1



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Туре	Plug straight M12
Coding type	A
Connection 2	
Туре	Socket angled M8
Coding type	A
Connection 3	
Туре	Socket angled M8
Coding type	A
Cable/line	
Cable length	3 m

PUR halogen-free black [PUR]

Dimensional drawing



Cable weight	18 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	3x 0.25 mm² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	3.60 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, blue, black
Thickness, insulation	≥ 0.21 mm (Core insulation)
Thickness, outer sheath	approx. 0.50 mm
Overall twist	3 wires, twisted
Length of twist, overall twist	40 mm
Max. conductor resistance	≤ 78 Ω/km (at 20 °C)
Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V



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Test voltage	≥ 3000 V	
Smallest bending radius, fixed installation	18 mm	
Smallest bending radius, movable installation	36 mm	
Max. bending cycles	1000000	
Halogen-free	in accordance with DIN VDE 0472 part 815	
Flame resistance	in accordance with UL 758/1581 FT2	
	DIN EN 60332-2-2 (20 s)	
Resistance to oil	in accordance with DIN EN 60811-2-1	
Other resistance	hydrolysis and microbe resistant	
	Highly resistant to acids, alkaline solutions and solvents	
	Resistant to salt water	
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)	
Special properties	Flexible cable conduit capable	
	Silicone-free	
	Free of substances which would hinder coating with paint or varnish	
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
	IP67
	IP68
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)
	-40 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

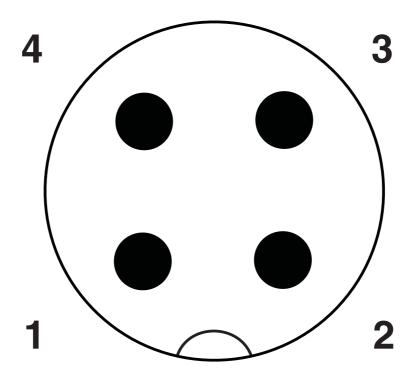


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Drawings

Schematic diagram



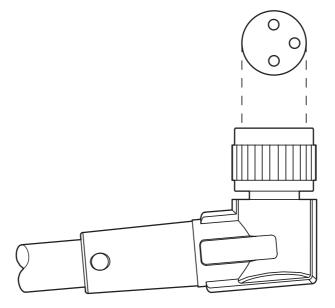
Pin assignment M12 Y plug, 4-pos., A-coded, view plug side



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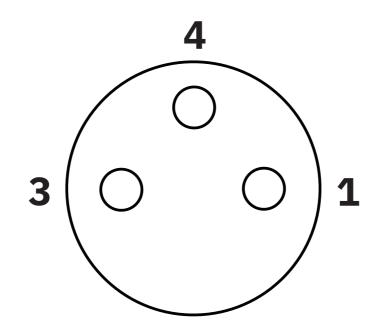
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Schematic diagram



Layout of connector pin assignments

Schematic diagram



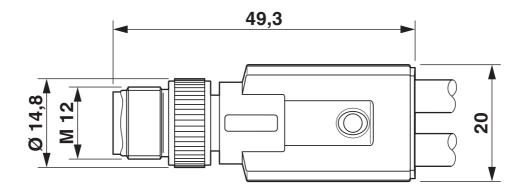
Pin assignment M8 socket, 3-pos., view female side



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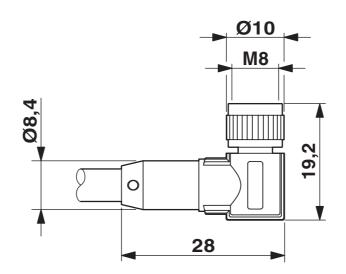
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Dimensional drawing



Plug M12 x 1, Y distributor



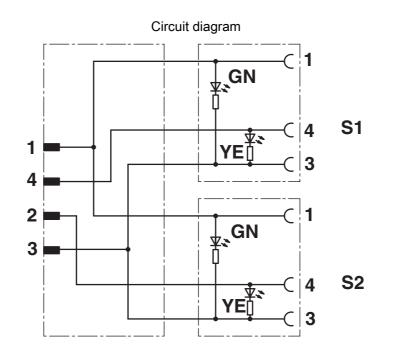


Socket M8 x 1, angled



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Approvals

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	UL Listed Approval ID: FILE E 221474				
		Nominal voltage U _N	Nominal current I_N	Cross section AWG	Cross section mm ²
		24 V	4 A	-	-
<u>®</u>	CUL Listed Approval ID: FILE E 221474	L			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		24 V	4 A	-	-
EAC	EAC-RoHS				

cULus Listed



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Classifications

ECLASS

ECLASS-11.0	27060313
ECLASS-12.0	27060313
ECLASS-13.0	27060313

ETIM

	ETIM 9.0	EC001855			
UN	UNSPSC				
	UNSPSC 21.0	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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