

1684085

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Master cable, application: Sensor/actuator box, number of positions: 19, slot assignment: Double, status display: no; master cable connection: M23 plug connection, PUR/PVC, cable length: 10 m, shielding: no, this item is expected to be lead-free from Q4 2025 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

Commercial data

Item number	1684085
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB34
Product key	ABRDCB
GTIN	4017918172039
Weight per piece (including packing)	1,941 g
Weight per piece (excluding packing)	1,924.314 g
Customs tariff number	85444290
Country of origin	DE



The master cable is earmarked for use on the sensor/actuator

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Technical data

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	·	boxes with an M23 plug-in connection.
Pr	oduct properties	
	Product type	Master cable, assembled
	Application	Sensor/actuator box
	Number of positions	19

Electrical properties

Notes on operation

Nominal voltage U _N	48 V AC
	60 V DC

Connection data

Si	gnaling	
	Status display present	no

Fixed connection

Material specifications

Connection method

Material Housing	PUR
Material of contact, master cable side	CU alloy
Material of the contact carrier on the master cable side	PA
Material of contact surface, master cable side	gold-plated

Connector

Connection 1

Head design	Socket
Head cable outlet	angled
Head thread type	M23

Connection 2

Head design free cable end	gn free
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Cable/line

Cable length	10 m

PUR/PVC black [PUR]



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Dimensional drawing	
Cable weight	183.7 kg/km
UL AWM Style	20549 (80°C/300 V)
Number of positions	19
Shielded	no
Cable type	PUR/PVC black [PUR]
Conductor structure signal line	28x 0.15 mm
AWG signal line	20
Conductor structure, voltage supply	56x 0.15 mm
AWG power supply	17
Conductor cross section	16x 0.5 mm² (Signal line)
	3x 1 mm² (power line)
Wire diameter incl. insulation	1.5 mm ±0.1 mm (Signal line)
	2.1 mm ±0.1 mm (power line)
External cable diameter	10.50 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, blue, green/yellow, white, green, yellow, gray, pink, red, black, violet, gray/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown, white/gray, gray/brown
Inner sheath thickness	≥ 0.15 mm
Thickness, outer sheath	≥ 0.76 mm
Overall twist	Wires twisted in layers
Nominal voltage, cable	300 V
Test voltage	2000 V
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	79 mm
Smallest bending radius, movable installation	105 mm
Dynamic load capacity (bending)	Max. bending cycles: 1500000, Bending radius: 10 x D, Traversing path: 2 m, Traversing rate: 2 m/s
Flame resistance	according to DIN EN 50265
Resistance to oil	according to VDE 0472 Part 803
Other resistance	Highly resistant to acids, alkaline solutions and solvents
Special properties	Silicone-free



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Ambient temperature (operation)	-40 °C 90 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-40 °C 125 °C (Plug / socket)

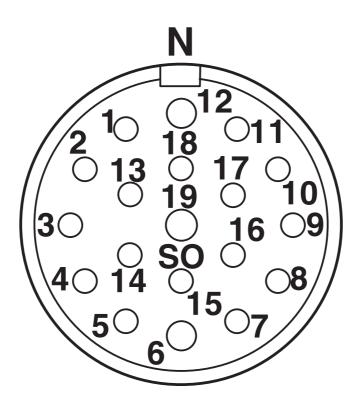


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Drawings

Schematic diagram



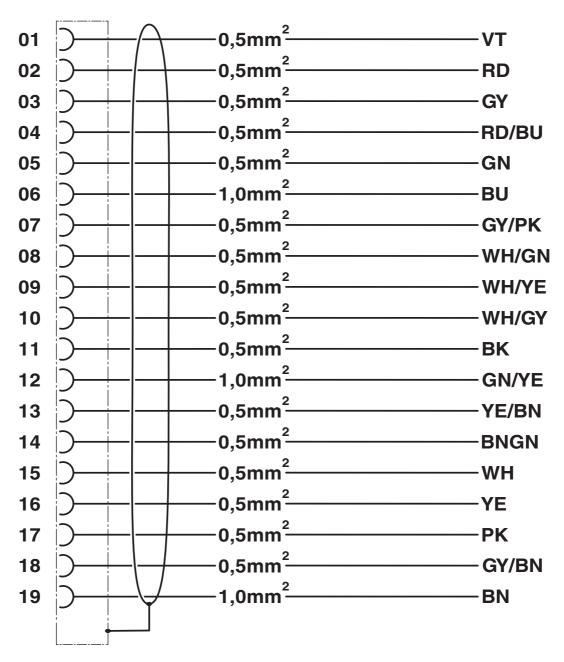
Pin assignment M23 socket, 19-pos., female side view



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Circuit diagram



Circuit diagram



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Approvals

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EAC

Approval ID: 19060508



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Classifications

	ECLASS-13.0	27060311	
ETIM			
	ETIM 9.0	EC001855	
UNSPSC			
	UNSPSC 21.0	26121600	



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	96b18188-d212-4c3e-83f8-57e340a987b2

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