

Sensor/Actuator cable - SAC-5P-10,0-PVC/M12FR SH BK - 1527757

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Sensor/Actuator cable, 5-position, PVC, Black RAL 9005, Free cable end, on Socket straight M12, A-coded, Cable length: 10 m

As shown in the illustration but
with a black handle

Key commercial data

package_quantity	1
GTIN	4017918959029

Technical data

Dimensions

Length of cable	10 m
Stripping length of the free conductor end	50 mm

Ambient conditions

Degree of protection	IP65
Degree of protection	IP67

General

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	5
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Status display	No
Surge voltage category	II
Pollution degree	3
Insertion/withdrawal cycles	≥ 100

Material

Inflammability class according to UL 94	HB
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF

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Technical data

Material

Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

Cable

Cable type	PVC black
Cable type (abbreviation)	PVC
Conductor cross section	5x 0.34 mm ² (signal line)
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.35 mm ±0.02 mm
Thickness, insulation	≥ 0.23 mm (Core insulation)
Thickness, insulation	≥ 0.76 mm (Outer cable sheath)
Wire colors	Brown, white, blue, black, gray
Overall twist	5 wires around filler to the core
Shielding	Tinned copper braided shield
Optical shield covering	85 %
External sheath, color	Black RAL 9005
External cable diameter D	5.9 mm ± 0.2 mm
Cable weight	55 kg/km
Outer sheath, material	PVC
Material, filler	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 10 MΩ*km (at 20 °C)
Conductor resistance	≤ 58 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Flame resistance	As per UL-Style 2464
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation)	-5 °C ... 80 °C (cable, flexible installation)

classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801

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classifications

eCl@ss

eCl@ss 8.0	27061801
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ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

approvals

UL Listed / cUL Listed / cULus Listed /

Approval details

UL Listed 	
Nominal voltage UN	125 V
Nominal current IN	4 A
mm²/AWG/kcmil	

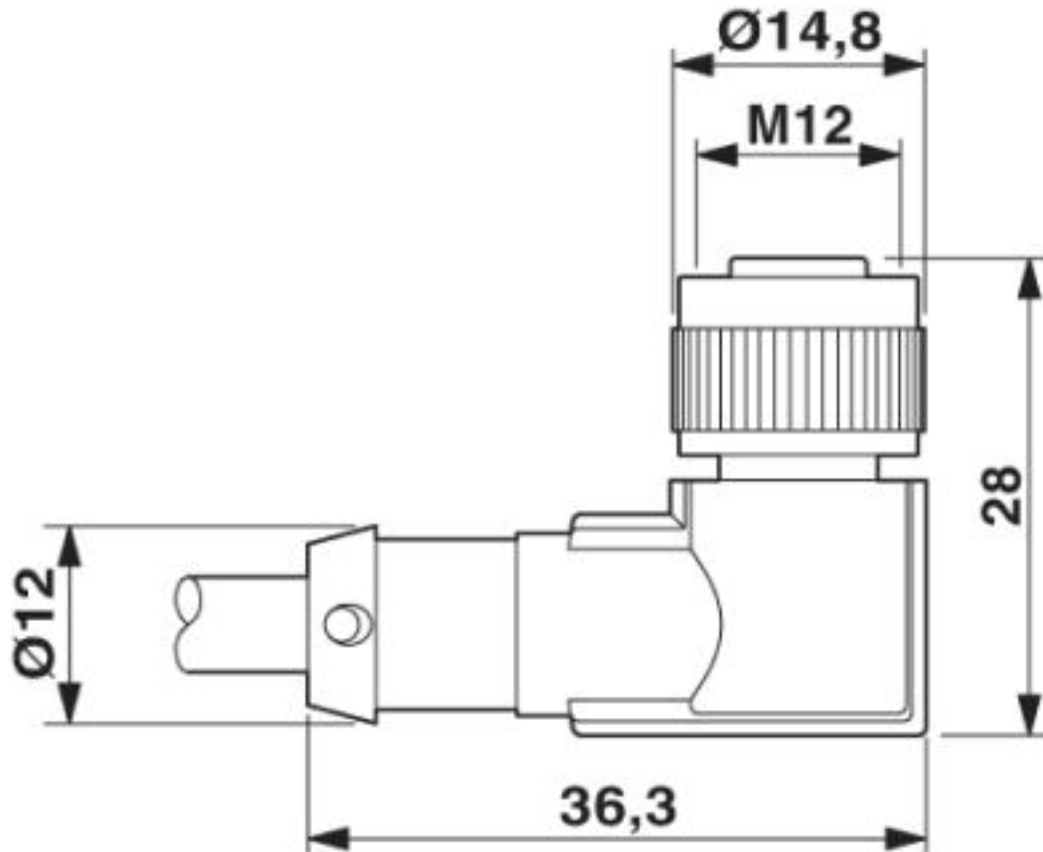
cUL Listed 	
Nominal voltage UN	125 V
Nominal current IN	4 A
mm²/AWG/kcmil	

cULus Listed 	
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Drawings

Sensor/Actuator cable - SAC-5P-10,0-PVC/M12FR SH BK - 1527757

Dimensioned drawing



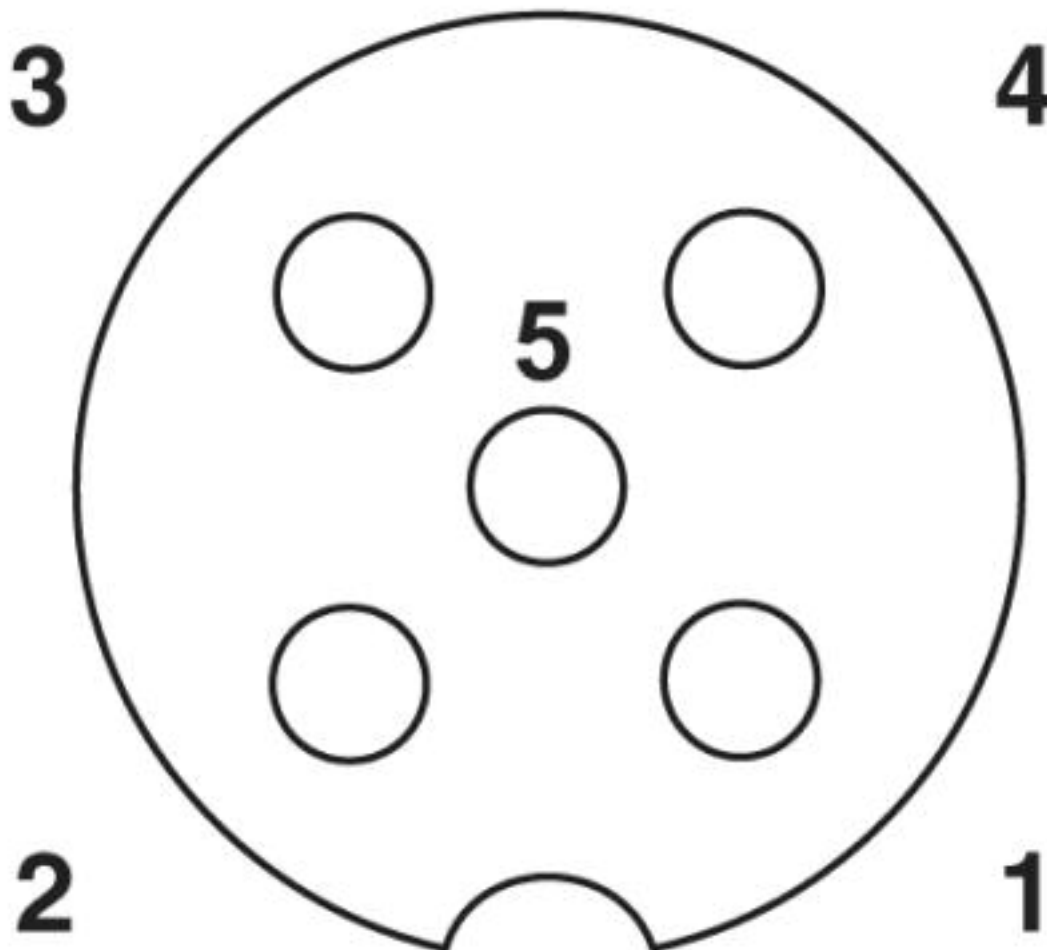
M12 x 1 socket, angled, shielded

Circuit diagram

Contact assignment of the M12 socket

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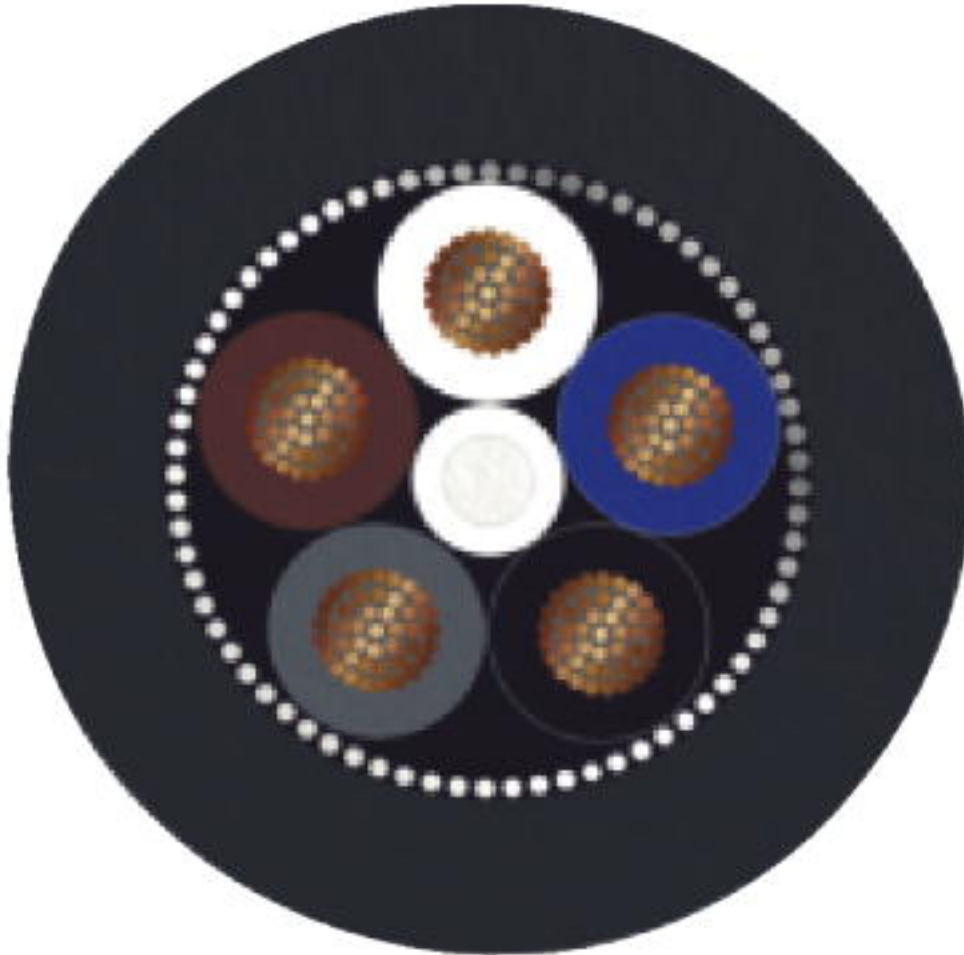
Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

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Cable cross section



PVC black [PVC]

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