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Sensor/Actuator cable - SAC-2P-SUSMS/ 1,5-PUR - 1410752

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Sensor/Actuator cable, 2-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Plug straight Superseal Clip locking, Cable length: 1.5 m



Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 924405
GTIN	4046356924405

Technical data

Dimensions

Length of cable	1.5 m
Ambient conditions	

Ambient temperature (operation)	-20 °C 85 °C (Superseal)
Degree of protection	IP67

General

Rated current at 40°C	8 A
Rated voltage	24 V
Number of positions	2
Insulation resistance	\geq 100 M Ω
Coding	A - standard
Status display	No
Protective circuit/component	Unwired

Material

Flammability rating according to UL 94	НВ
Contact material	CuZn
Contact carrier material	PA 66



Sensor/Actuator cable - SAC-2P-SUSMS/ 1,5-PUR - 1410752

Technical data

Material

Material, knurls not available Sealing material Silicon Standards and Regulations HB Flammability raing according to UL 94 HB Cable PUR halogen-free black Cable type (abbreviation) PUR Cable type (abbreviation) PUR Cable babreviation LIPY1YY U. AVM style 20549 / 10493 (80°C/300 V) Conductor cross section 2x 0.75 mm² (Signal line) AWG signal line 48 Conductor structure signal line 42x 0.15 mm Core diameter including insulation 1.69 mm ±0.05 mm (Signal line) Thickness, insulation 2.071 mm Overall twist 2 wires, twisted External sheath, color black-gray RAL 7021 Outer sheath thickness 2.03 B mm External cable diameter D 4.8 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Number of bending cycles 4000000 Bending radius 48 mm Acceleration 10 m/s*	Material of grip body	PA
Standards and Regulations Flammability rating according to UL 94 HB Cable PUR halogen-free black Cable type (abbreviation) PUR halogen-free black Cable type (abbreviation) LBY11Y UL AVM style 20549 / 10493 (80°C/300 V) Conductor cross section 2x 0.75 mm² (Signal line) AWG signal line 18 Conductor structure signal line 42x 0.15 mm Core diameter including insulation 1.69 mm ±0.05 mm (Signal line) Orer diameter including insulation 2.01 mm Wire colors brown, blue Overall twist 2 wires, twisted External sheath, color black-gray RAL 7021 Outer sheath thickness 2.0.38 mm External cable diameter D 4.8 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Number of bending cycles 4000000 Bending radius 48 mm Taversing rate 3 m/s Acceleration 10 m Taversing rate 3 m/s	Material, knurls	not available
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Flammability rating according to UL 94 HB Cable PUR halogen-free black Cable type (abbreviation) PUR Cable type (abbreviation) PUR Cable abbreviation LGY11Y UL AVM style 20649 / 10493 (80°C/300 V) Conductor cross section 2x 0.75 mm² (Signal line) AWG signal line 42x 0.15 mm Conductor structure signal line 42x 0.15 mm Core diameter including insulation 169 mm ±0.05 mm (Signal line) Thickness, insulation 2.021 mm Wire colors brown, blue Overall twist 2 wires, twisted External sheath, color black-gray RAL 7021 Outer sheath thickness 2.43 mm External sheath, color 3.38 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Number of bending cycles 4000000 Bending radius 43 mm Taversing rate 3 m/s Caceleration 10 m s² Caceleration 10 m/s² Cable weight<	Standards and Regulations	
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Cable type PUR halogen-free black Cable type (abbreviation) PUR Cable babreviation Li9Y11Y UL AWM style 20549 / 10433 (80°/300 V) Conductor rorse section 2x 0.75 mm? (Signal line) AWG signal line 2x 0.75 mm? (Signal line) Conductor structure signal line 42x 0.15 mm Conductor structure signal line 2x 0.15 mm Core diameter including insulation 1.69 mm ± 0.05 mm (Signal line) Thickness, insulation 2.021 mm Wire colors bown, blue Outer sheath thickness 2.038 mm External sheath, color 48 mm ± 0.5 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 5 x D Number of bending cycles 48 mm Bending radius 48 mm Acceleration 10 m. Traversing rate 3 m/s Acceleration 10 m/s Cable weight Outer sheath, material Outer sheath, material PUR Material conductor insulation 2 GO/km (at 20 °C)	Cable	
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Cable abbreviation Li9Y11Y UL AWM style 20549 / 10493 (80°C/300 V) Conductor cross section 2x 0.75 mm² (Signal line) AWG signal line 18 Conductor structure signal line 42x 0.15 mm Core diameter including insulation 1.69 mm ±0.05 mm (Signal line) Thickness, insulation 2.021 mm Wire colors brown, blue Overall twist 2 wires, twisted External sheath, color black-gray FAL 7021 Outer sheath thickness 2 0.38 mm External sheath color 4.8 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Number of bending cycles 4000000 Bending radius 48 mm Traversing rate 3 m/s Acceleration 10 m/s ² Cable weight 3 kg/km Outer sheath, material PP Conductor resistance 260 /// C) Conductor resistance 260 /// C) Conductor resistance 260 /// C) Norinal voltage,		
UL AWM style 20549 / 10493 (80°C/300 V) Conductor cross section 2x 0.75 mm² (Signal line) AWG signal line 18 Conductor structure signal line 42x 0.15 mm Core diameter including insulation 169 mm 20.05 mm (Signal line) Thickness, insulation 2.021 mm Orerall twist 2 wires, bisted Overall twist 2 wires, bisted External sheath, color 0.38 mm Outer sheath thickness 0.38 mm External cable diameter D 4.8 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 xD Number of bending cycles 48 mm Acceleration 10 m/s² Cable weight 3 m/s Acceleration 10 m/s² Cuductor material PP Conductor insulation 21 G0°tm (at 20 °C) Conductor resistance 26 00 VAC Cable weight 3 ands Outer sheath material PP Conductor insulation resistance 26 00 VAC Conductor resistance<		
Conductor cross section 2x 0.75 mm² (Signal line) AWG signal line 18 Conductor structure signal line 42x 0.15 mm Core diameter including insulation 1.69 mm ±0.05 mm (Signal line) Thickness, insulation 2.021 mm Wire colors brown, blue Overall twist 2 wires, twisted External sheath, color black-gray RAL 7021 Outer sheath thickness ≥ 0.38 mm External cable diameter D 4.8 mm ±0.15 mm Minimu bending radius, fixed installation 10 x D Number of bending cycles 4000000 Bending radius, fixed installation 10 m Traversing rath 10 m Traversing rath 3 m/s Acceleration 10 m/s² Conductor material PP Conductor material Bare Cu litz wires Insulation resistance 2 300 V AC Conductor resistance 2 3000 V AC (Spark test) Special properties flexible conduit capable Flame resistance 2 3000 V AC (Spark test)		
AWG signal line 18 Conductor structure signal line 42x 0.15 mm Core diameter including insulation 1.68 mm ±0.05 mm (Signal line) Thickness, insulation ≥ 0.21 mm Wire colors brown, blue Overall twist ≥ 0.21 mm Uire colors black-gray RAL 7021 Outer sheath, color black-gray RAL 7021 Outer sheath thickness ≥ 0.38 mm External sheath, color 4.8 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Number of bending cycles 4000000 Bending radius 48 mm Traversing rate 3 m/s Acceleration 10 m/s ^a Cable weight 33 kg/km Outer instalation PUR Conductor insulation 21 GO ^a km (at 20 °C) Conductor insulation 21 GO ^a km (at 20 °C) Conductor resistance 2 60 k/km (at 20 °C) Conductor resistance 2 3000 V AC Test voltage, cable 3000 V AC Special properties		
Conductor structure signal line 42x 0.15 mm Core diameter including insulation 1.69 mm ±0.05 mm (Signal line) Thickness, insulation ≥ 0.21 mm Wire colors brown, blue Overall twist 2 wires, twisted External sheath, color black-gray RAL 7021 Outer sheath thickness > 0.38 mm External cable diameter D 4.8 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Number of bending cycles 48 mm Bending radius fixed installation Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s ⁴ Conductor material PUR Material conductor insulation PUR Material conductor insulation ≥ 1 GΩ ⁴ km (at 20 °C) Conductor material Saro YC Insulation resistance ≥ 200 VAC (Spark test) Special properties 5 x00 VAC Traversing rate ≤ 300 VAC Special properties Fiexible cable conduit capable		
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Thickness, insulation ≥ 0.21 mm Wire colors brown, blue Overall twist 2 wires, twisted External sheath, color black-gray RAL 7021 Outer sheath thickness ≥ 0.38 mm External cable diameter D 4.8 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Number of bending cycles 400000 Bending radius 48 mm Traversing path 10 m Traversing rate 31 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance 2 6 0/km (at 20 °C) Conductor resistance 2 6 0/km (at 20 °C) Conductor resistance 2 6 0/km (at 20 °C) Special properties 5 x00 V AC Test voltage, cable 2 300 V AC Test voltage, cable 2 300 V AC Special properties fexible cable conduit capable Flame resistance according to UL 758/1581 (horizontal) <		
Wire colors brown, blue Overall twist 2 wires, twisted External sheath, color black-gray RAL 7021 Outer sheath thickness > 0.38 mm External cable diameter D 4.8 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Number of bending cycles 4000000 Bending radius 48 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 33 kg/km Outer sheath, material PUR Material conductor insulation > 1 GΩ'km (at 20 °C) Conductor material 2 G Ω/km (at 20 °C) Nominal voltage, cable > 300 V AC Secial properties 5 300 V AC Fext Voltage, cable > 300 V AC (Spark test) Special properties Fexible cable conduit capable Flame resistance according to UL 758/1581 FT2	-	
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Outer sheath thickness ≥ 0.38 mm External cable diameter D 4.8 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Number of bending cycles 4000000 Bending radius 48 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 33 kg/km Outer sheath, material PUR Metrial conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≤ 1 GΩ*km (at 20 °C) Conductor resistance ≤ 300 V AC Test voltage, cable ≤ 3000 V AC Test voltage, cable ≤ 3000 V AC (Spark test) Special properties flexible Flame resistance according to UL 758/1581 (horizontal) Flame resistance according to UL 758/1581 (Fri2		
External cable diameter D4.8 mm ±0.15 mmMinimum bending radius, fixed installation5 x DMinimum bending radius, flexible installation10 x DNumber of bending cycles4000000Bending radius48 mmTraversing path10 mTraversing rate3 m/sAcceleration10 m/s²Cable weight33 kg/kmOuter sheath, materialPURMaterial conductor insulationPPConductor materialBare Cu litz wiresInsulation resistance≥ 1 GΩ*km (at 20 °C)Conductor resistance≤ 300 V ACTest voltage, cable≥ 3000 V AC (Spark test)Special propertiesflexibleFlame resistanceFlexible cable conduit capableFlame resistanceaccording to UL 758/1581 (horizontal)Flame resistancein accordance with UL 758/1581 FT2		
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Minimum bending radius, flexible installation10 x DNumber of bending cycles400000Bending radius48 mmTraversing path10 mTraversing rate3 m/sAcceleration10 m/s²Cable weight33 kg/kmOuter sheath, materialPURMaterial conductor insulation2 a G0*km (at 20 °C)Conductor resistance2 300 V ACTest voltage, cable300 V ACSpecial propertiesfexibleFlame resistance2 coording to UL758/1581 (horizontal)Flame resistanceaccording to UL758/1581 FT2		
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Traversing path10 mTraversing rate3 m/sAcceleration10 m/s²Cable weight33 kg/kmOuter sheath, materialPURMaterial conductor insulationPPConductor materialBare Cu litz wiresInsulation resistance> 1 GΩ*km (at 20 °C)Conductor resistance< 300 V ACNominal voltage, cable< 3000 V AC (Spark test)Special propertiesflexibleFlame resistanceRexible cable conduit capableFlame resistanceaccording to UL 758/1581 (horizontal)Insulation resistancein accordance with UL 758/1581 FT2		
Traversing rate3 m/sAcceleration10 m/s²Cable weight33 kg/kmOuter sheath, materialPURMaterial conductor insulationPPConductor materialBare Cu litz wiresInsulation resistance≥ 1 GΩ*km (at 20 °C)Conductor resistance≤ 26 Ω/km (at 20 °C)Nominal voltage, cable≤ 300 V ACTest voltage, cable≥ 3000 V AC (Spark test)Special propertiesflexibleFlame resistanceSite Culit Zise Conduit capableFlame resistancein according to UL 758/1581 (horizontal)Flame resistancein accordance with UL 758/1581 FT2	-	
Acceleration10 m/s²Cable weight33 kg/kmOuter sheath, materialPURMaterial conductor insulationPPConductor materialBare Cu litz wiresInsulation resistance≥ 1 GΩ*km (at 20 °C)Conductor resistance≤ 26 Ω/km (at 20 °C)Nominal voltage, cable≤ 300 V ACTest voltage, cable≥ 3000 V AC (Spark test)Special propertiesflexibleFlame resistanceaccording to UL 758/1581 (horizontal)Inacordance with UL 758/1581 FT2	Traversing path	10 m
Cable weight 33 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km (at 20 °C) Conductor resistance ≤ 26 Ω/km (at 20 °C) Nominal voltage, cable ≤ 300 V AC Test voltage, cable ≥ 3000 V AC (Spark test) Special properties flexible Flame resistance according to UL 758/1581 (horizontal) Flame resistance in accordance with UL 758/1581 FT2	Traversing rate	
Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km (at 20 °C) Conductor resistance ≤ 26 Ω/km (at 20 °C) Nominal voltage, cable ≤ 300 V AC Test voltage, cable ≤ 3000 V AC (Spark test) Special properties flexible Flame resistance according to UL 758/1581 (horizontal) Flame resistance in accordance with UL 758/1581 FT2	Acceleration	
Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km (at 20 °C) Conductor resistance ≤ 26 Ω/km (at 20 °C) Nominal voltage, cable ≤ 300 V AC Test voltage, cable ≥ 3000 V AC (Spark test) Special properties flexible Flame resistance according to UL 758/1581 (horizontal) Flame resistance in accordance with UL 758/1581 FT2	Cable weight	33 kg/km
Conductor materialBare Cu litz wiresInsulation resistance≥ 1 GΩ*km (at 20 °C)Conductor resistance≤ 26 Ω/km (at 20 °C)Nominal voltage, cable≤ 300 V ACTest voltage, cable≥ 3000 V AC (Spark test)Special propertiesflexibleFlame resistance≥ cording to UL 758/1581 (horizontal)Insulation resistancein accordance with UL 758/1581 FT2	Outer sheath, material	PUR
Insulation resistance ≥ 1 GΩ*km (at 20 °C) Conductor resistance ≤ 26 Ω/km (at 20 °C) Nominal voltage, cable ≤ 300 V AC Test voltage, cable ≥ 3000 V AC (Spark test) Special properties flexible Flame resistance according to UL 758/1581 (horizontal) Flame resistance in accordance with UL 758/1581 FT2	Material conductor insulation	PP
Conductor resistance ≤ 26 Ω/km (at 20 °C) Nominal voltage, cable ≤ 300 V AC Test voltage, cable ≥ 3000 V AC (Spark test) Special properties flexible Flame resistance according to UL 758/1581 (horizontal) in accordance with UL 758/1581 FT2	Conductor material	Bare Cu litz wires
Nominal voltage, cable ≤ 300 V AC Test voltage, cable ≥ 3000 V AC (Spark test) Special properties flexible Flame resistance according to UL 758/1581 (horizontal) in accordance with UL 758/1581 FT2	Insulation resistance	
Test voltage, cable ≥ 3000 V AC (Spark test) Special properties flexible Flexible cable conduit capable Flexible cable conduit capable Flame resistance according to UL 758/1581 (horizontal) in accordance with UL 758/1581 FT2	Conductor resistance	\leq 26 Ω /km (at 20 °C)
Special properties flexible Special properties flexible Flame resistance according to UL 758/1581 (horizontal) In accordance with UL 758/1581 FT2	Nominal voltage, cable	≤ 300 V AC
Flexible cable conduit capable Flame resistance according to UL 758/1581 (horizontal) in accordance with UL 758/1581 FT2	Test voltage, cable	≥ 3000 V AC (Spark test)
Flame resistance according to UL 758/1581 (horizontal) in accordance with UL 758/1581 FT2	Special properties	flexible
in accordance with UL 758/1581 FT2		Flexible cable conduit capable
	Flame resistance	according to UL 758/1581 (horizontal)
according to DIN EN 60332-2-2		in accordance with UL 758/1581 FT2
		according to DIN EN 60332-2-2



Sensor/Actuator cable - SAC-2P-SUSMS/ 1,5-PUR - 1410752

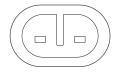
Technical data

Cable

Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with DIN EN 50267-2-1
Resistance to oil	According to DIN EN 60811-2-1, 168 h at 100°C
	According to UL 758, 168 h at 60°C
Other resistance	hydrolysis and microbe resistant
	partly UV-resistant in accordance with DIN EN ISO 4892-2-A
	Low adhesion
	abrasion-resistant
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (cable, flexible installation)

Drawings

Schematic diagram



Cable cross section



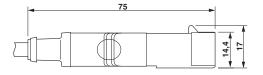
PUR halogen-free black [PUR]

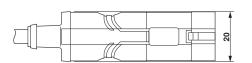




Contact assignment of the super seal plug

Dimensional drawing





Superseal, plug, view from above and side

Super seal plug pin assignment, 2-pos.



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