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Sensor/Actuator cable, 3-position, Variable cable type, shielded, Plug angled M8, on Socket straight M8, Cable length: Free input (0.2 ... 40.0 m)



Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	137.500 g
Custom tariff number	85444290
Country of origin	United States

Technical data

Dimensions

Length of cable Free input (0.2 40.0 m)

Ambient conditions

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

General

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	3
Insulation resistance	\geq 100 M Ω
Coding	A - standard
Standards/regulations	M8 connector IEC 61076-2-104
Status display	No
Protective circuit/component	Unwired



Technical data

General

Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100
Torque	0.2 Nm (M8 connectors)

Material

Flammability rating according to UL 94	НВ
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

Line characteristics

Note	This item is a sensor/actuator cable with a freely selectable cable type. The technical data for all possible cable types is listed in the table below.
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Standards and Regulations

Standard designation	M8 connector
Standards/regulations	IEC 61076-2-104
Flammability rating according to UL 94	НВ

PVC yellow 105 °C [542]

Cable type	PVC yellow 105 °C
Cable type (abbreviation)	542
UL AWM style	2517 (105 °C / 300 V)
AWG signal line	24
Core diameter including insulation	1.12 mm ±0.03 mm
Wire colors	brown, blue, black
Overall twist	3 wires, twisted
Shielding	Tinned copper braided shield
Optical shield covering	85 %
External sheath, color	yellow
External cable diameter D	4.7 mm ±0.2 mm
Minimum bending radius, flexible installation	12 x D
Cable weight	33 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires



Technical data

PVC yellow 105 °C [542]

Insulation resistance	≥ (550 M Ohms/m @ 500V)
Conductor resistance	max. 79.7 Ω/km (20° C)
Nominal voltage, cable	300 V
Flame resistance	FT4
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C 105 °C (cable, fixed installation)

Black PVC 105°C [535]

Cable type	Black PVC 105°C
Cable type (abbreviation)	535
UL AWM style	2517 (105 °C / 300 V)
AWG signal line	24
Core diameter including insulation	1.12 mm ±0.03 mm
Wire colors	brown, blue, black
Overall twist	3 wires, twisted
Shielding	Tinned copper braided shield
Optical shield covering	85 %
External sheath, color	black
External cable diameter D	4.7 mm ±0.2 mm
Minimum bending radius, flexible installation	12 x D
Cable weight	33 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires
Nominal voltage, cable	300 V
Flame resistance	FT4
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C 105 °C (cable, fixed installation)

PUR halogen-free yellow [240]

Cable type	PUR halogen-free yellow
Cable type (abbreviation)	240
Cable abbreviation	Li9YV1-C-V1-11Y
UL AWM style	20549
Conductor cross section	3x 0.25 mm²
AWG signal line	24
Conductor structure signal line	32x 0.10 mm
Core diameter including insulation	1.17 mm ±0.02 mm



Technical data

PUR halogen-free yellow [240]

TOTTHOOGETHEE YEROW [240]	
Thickness, insulation	≥ 0.21 mm
Wire colors	brown, blue, black
Overall twist	3 wires, twisted
Length of twist, overall twist	40 mm
Shielding	Braided copper wires
Optical shield covering	85 %
External sheath, color	yellow
Outer sheath thickness	approx. 0.8 mm
External cable diameter D	5 mm ±0.2 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	2000000
Minimum bending radius, drag chain applications	10 x D
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	PP
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Conductor resistance	78 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage, cable	≥ 3000 V AC (Spark test)
Test voltage Core/Shield	≥ 2000 V AC (for 60 s)
Flame resistance	in accordance with UL 758/1581 FT2
Halogen-free	in accordance with DIN VDE 0472 part 815
	According to 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
	Resistant to salt water
	abrasion-resistant
	Low adhesion
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (cable, flexible installation)

PUR halogen-free black [PUR]



Technical data

PUR halogen-free black [PUR]

Cable type (abbreviation) PUR halogen-free black Cable abbreviation UBY-VI-C-VI-11Y Cable abbreviation UBY-VI-C-VI-11Y UL AWM style 20549 Conductor cross section 3x 0.25 mm² (Signal line) AWG Signal line 24 Conductor structure signal line 32x 0.10 mm Core diameter including insulation 1.17 mm ±0.02 mm (Signal line) Tickness, insulation > 0.21 mm (Core insulation) User all twist 3 x vires, wisted on Wire colors brown, blue, black Overall twist 3 x vires, wisted on Shielding Braided copper wires Optical shield covering 85 % External cable diameter D 5 mm ±0.22 mm Stelled diameter D 5 mm ±0.22 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, movable installation 50 mm Smallest bending radius, movable installation 50 mm Taversing path 10 m Taversing rate 3 mm ±0.22 mm Acceleration 10 ms² Cable weight 3 x	Cable type	DLID helegen free bleek
Cable abbreviation Ligy-V1-C-V1-11Y UL AWM style 20549 Conductor cross section 3x 0.25 mm² (Signal line) AWG signal line 24 Conductor structure signal line 32x 0.10 mm Core diameter including insulation 1.17 mm ±0.02 mm (Signal line) Thickness, insulation 2.0.21 mm (Core insulation) Wire colors brown, blue, black Overall twist 3 wires, twisted Shielding Braided copper wires Optical shield covering 85 % External sheath, color black-gray RAL 7021 External cable diameter D 5 mm ±0.2 mm Smallest bending radius, invosable installation 25 mm Smallest bending radius, movable installation 25 mm Smallest bending radius, movable installation 50 mm Number of bending cycles 40000000 Bending radius, movable installation 50 mm Traversing path 10 m Traversing path 10 m Taversing path 10 m/s² Cacileration 10 m/s² Cable weight 38 kg/m <		
UL AWM style 20549 Conductor cross section 3x 0.25 mm² (Signal line) AWG signal line 24 Conductor structure signal line 32x 0.10 mm Core diameter including insulation 1.17 mm ±0.02 mm (Signal line) Thickness, insulation > 0.76 mm (Outer cable sheath) Wire colors brown, blue, black Overall twist 3 wires, twisted Shielding Braided copper wires Optical shield covering 85 External sheath, color black-gray RAL 7021 External cable diameter D 5 mm ±0.2 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, fixed installation 50 mm Mumber of bending cycles 4000000 Bending radius 50 mm Traversing path 10 m s² Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 33 kg/km Outer sheath, material PP Conductor material 8 are Cultz wires Insulation resistance 1000 GC/km Test voltage		
Conductor cross section 3x 0.25 mm² (Signal line) AWG signal line 24 Conductor structure signal line 32x 0.10 mm Core diameter including insulation 1.17 mm ±0.02 mm (Signal line) Thickness, insulation 2 0.21 mm (Core insulation) Wire colors brown, blue, black Overall twist 3 wires, twisted Shielding Braided copper wires Optical shield covering 85 % External sheath, color black-gray RAL 7021 External cable diameter D 5 mm ±0.20 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, fixed installation 50 mm Number of bending cycles 4000000 Bending radius 50 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 35 kg/km Unter sheath, material Brace Cu litz wires Insulation resistance > 100 GD*km Conductor material Bare Cu litz wires Insulation resistance > 100 GD*km		
AWG signal line 24 Conductor structure signal line 32x 0.10 mm Core diameter including insulation 1.17 mm ±0.02 mm (Signal line) Thickness, insulation ≥ 0.27 mm (Coter insulation) Wire colors brown, blue, black Overall twist 3 wires, twisted Shielding Braided coper wires Optical shield covering 85 % External sheath, color black-gray RAL 7021 External cable diameter D 5 mm ±0.2 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, fixed installation 50 mm Number of bending cycles 4000000 Bending radius 50 mm Traversing path 10 m ft Traversing path 10 m/s² Acceleration 10 m/s² Cable weight 3 kg/km Outer sheath, material Bread Litz wires Insulation resistance > 100 GP km Conductor insulation pP Conductor resistance 100 GP km Conductor resistance 100 GP km Conductor resista		
Conductor structure signal line 32x 0.10 mm Core diameter including insulation 1.17 mm ± 0.02 mm (Signal line) Thickness, insulation > 0.21 mm (Core insulation) Wire colors brown, blue, black Overall twist 3 wires, twisted Shielding Braided copper wires Optical shield covering 85 External sheath, color black-gray RAL 7021 External sheath, color black-gray RAL 7021 External sheath, gradius, fixed installation 25 mm Smallest bending radius, movable installation 25 mm Smallest bending radius, movable installation 50 mm Number of bending cycles 4000000 Bending radius 50 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 PP Conductor material Bare Cu litz wires Insulation resistance > 100 GΩ*km Nominal voltage, cable 300 V		
Core diameter including insulation 1.17 mm ±0.02 mm (Signal line) Thickness, insulation > 0.21 mm (Core insulation) Wire colors brown, blue, black Overall twist 3 wires, lwisted Shielding Braided copper wires Optical shield covering 85 % External sheath, color black-gray RAL 7021 External cable diameter D 5 mm ±0.2 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, movable installation 50 mm Number of bending cycles 4000000 Bending radius 50 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 PP Conductor material Bare Cu litz wires Insulation resistance 100 GΩ*km Nominal voltage, cable 300 V Special properties Flexible cable conduit capable Flame resistance in accordance with DIN UL-Style 20549 <td>-</td> <td>24</td>	-	24
Thickness, insulation ≥ 0.21 mm (Core insulation) Vire colors brown, blue, black Overall twist 3 wires, wisted Shielding Braided copper wires Optical shield covering 85 % External sheath, color black-gray RAL 7021 External cable diameter D 5 mm 40.2 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, movable installation 50 mm Number of bending cycles 4000000 Bending radius 50 mm Traversing path 10 m Traversing path 10 m/s² Cable weight 33 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Special properties Flexible cable conduit capable Flexible cable conduit dinder coating with paint or varnish Free of substances which would hinder coating with paint or varnish Flame r	Conductor structure signal line	
Vire colors > 0.76 mm (Outer cable sheath) Overall twist 3 wires, wisted Shielding Braided copper wires Optical shield covering 85 % External sheath, color black-gray RAL 7021 External cable diameter D 5 mm ±0.2 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, movable installation 50 mm Number of bending cycles 4000000 Bending radius 50 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 PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance ≥ 100 GQ*km Nominal voltage, cable 300 V Special properties Flexible cable conduit capable Flexible cable conduit dapable Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DI	Core diameter including insulation	1.17 mm ±0.02 mm (Signal line)
Wire colors brown, blue, black Overall twist 3 wires, twisted Shielding Braided copper wires Optical shield covering 85 % External sheath, color black-gray RAL 7021 External cable diameter D 5 mm ±0.2 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, movable installation 50 mm Number of bending cycles 4000000 Bending radius 50 mm Traversing path 10 m/s² Acceleration 10 m/s² Cable weight 33 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GO*km Nominal voltage, cable 300 V Special properties Flexible cable conduit capable Flexible cable conduit capable Firee of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Thickness, insulation	≥ 0.21 mm (Core insulation)
Overall twist 3 wires, twisted Shielding Braided copper wires Optical shield covering 85 % External sheath, color black-gray RAL 7021 External cable diameter D 5 mm ± 0.2 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, movable installation 50 mm Number of bending cycles 4000000 Bending radius 50 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 PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Nominal voltage, cable 300 V Special properties 500 V Special properties Flexible cable conduit capable Flexible cable conduit dapable 51/cone-free Flexible cable conduit DIN UL-Style 20549 in accordance with DIN VDE 0472 part 815		≥ 0.76 mm (Outer cable sheath)
Shielding Braided copper wires Optical shield covering 85 % External sheath, color black-gray RAL 7021 External cable diameter D 5 mm ±0.2 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, movable installation 50 mm Number of bending cycles 4000000 Bending radius 50 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 PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Nominal voltage, cable 300 V Special properties 300 V Special properties 5 likeble cable conduit capable Flame resistance Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Wire colors	brown, blue, black
Optical shield covering 85 % External sheath, color black-gray RAL 7021 External cable diameter D 5 mm ±0.2 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, movable installation 50 mm Number of bending cycles 4000000 Bending radius 50 mm Traversing path 10 m/s² Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 33 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Special properties Flexible cable conduit capable Extended properties Flexible cable conduit capable Flexible cable conduit capable Silicone-free Halogen-free in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Overall twist	3 wires, twisted
External sheath, color black-gray RAL 7021 External cable diameter D 5 mm ±0.2 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, movable installation 50 mm Number of bending cycles 4000000 Bending radius 50 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 PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Nominal voltage, cable 300 V Test voltage, cable 300 V Special properties Flexible cable conduit capable Fleme resistance Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Shielding	Braided copper wires
External cable diameter D 5 mm ±0.2 mm Smallest bending radius, fixed installation 25 mm Smallest bending radius, movable installation 50 mm Number of bending cycles 4000000 Bending radius 50 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 PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Nominal voltage, cable 300 V Test voltage, cable 300 V Special properties Flexible cable conduit capable Flexible cable conduit capable Flexible cable conduit capable Fleme resistance Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Optical shield covering	85 %
Smallest bending radius, fixed installation 25 mm Smallest bending radius, movable installation 50 mm Number of bending cycles 4000000 Bending radius 50 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 PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Special properties Flexible cable conduit capable Special properties Flexible cable which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	External sheath, color	black-gray RAL 7021
Smallest bending radius, movable installation 50 mm Number of bending cycles 4000000 Bending radius 50 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 PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Special properties Flexible cable conduit capable Special properties Silicone-free Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	External cable diameter D	5 mm ±0.2 mm
Number of bending cycles 4000000 Bending radius 50 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 PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Test voltage, cable 3000 V Special properties Flexible cable conduit capable Insulation resistance Silicone-free Flexible cable conduit capable Flexible cable conduit capable Flexible cable conduit capable Flexible cable conduit capable Insulation resistance Flexible cable conduit capable Insulation resista	Smallest bending radius, fixed installation	25 mm
Bending radius 50 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 PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Special properties Flexible cable conduit capable Silicone-free Flexible cable conduit would hinder coating with paint or varnish in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Smallest bending radius, movable installation	50 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 PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Test voltage, cable 3000 V Special properties Flexible cable conduit capable Silicone-free Silicone-free Free of substances which would hinder coating with paint or varnish Flame resistance Halogen-free in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Number of bending cycles	4000000
Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 33 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Test voltage, cable 3000 V Special properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Bending radius	50 mm
Acceleration 10 m/s² Cable weight 33 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Test voltage, cable 3000 V Special properties Flexible cable conduit capable Silicone-free Silicone-free Flame resistance free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	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 ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Test voltage, cable 3000 V Special properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Traversing rate	3 m/s
Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Test voltage, cable 3000 V Special properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Acceleration	10 m/s²
Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Test voltage, cable 3000 V Special properties Flexible cable conduit capable Silicone-free Silicone-free Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Cable weight	33 kg/km
Conductor material Bare Cu litz wires Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Test voltage, cable 3000 V Special properties Flexible cable conduit capable Silicone-free Silicone-free Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Outer sheath, material	PUR
Insulation resistance ≥ 100 GΩ*km Conductor resistance max. 79 Ω/km Nominal voltage, cable 300 V Test voltage, cable 3000 V Special properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Material conductor insulation	PP
Conductor resistancemax. 79 Ω/kmNominal voltage, cable300 VTest voltage, cable3000 VSpecial propertiesFlexible cable conduit capableSilicone-freeSilicone-freeFee of substances which would hinder coating with paint or varnishFlame resistancein accordance with DIN UL-Style 20549Halogen-freein accordance with DIN VDE 0472 part 815	Conductor material	Bare Cu litz wires
Nominal voltage, cable Test voltage, cable 3000 V Special properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Insulation resistance	≥ 100 GΩ*km
Test voltage, cable 3000 V Special properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Conductor resistance	max. 79 Ω/km
Special properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Nominal voltage, cable	300 V
Special properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815	Test voltage, cable	3000 V
Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815		Flexible cable conduit capable
Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815		Silicone-free
Halogen-free in accordance with DIN VDE 0472 part 815		Free of substances which would hinder coating with paint or varnish
	Flame resistance	in accordance with DIN UL-Style 20549
Resistance to oil in accordance with DIN EN 60811-2-1	Halogen-free	in accordance with DIN VDE 0472 part 815
	Resistance to oil	in accordance with DIN EN 60811-2-1



Technical data

PUR halogen-free black [PUR]

Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
	partly UV-resistant in accordance with DIN EN ISO 4892-2-A
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (cable, flexible installation)

Drawings

Schematic diagram



Schematic diagram



Pin assignment M8 plug, 3-pos., view male side

Cable cross section



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

Cable cross section



PVC yellow 105 °C [542]

Cable cross section



Black PVC 105°C [535]

Cable cross section

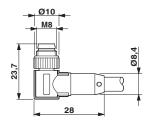


PUR halogen-free yellow [240]

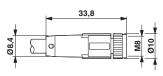
PUR halogen-free black [PUR]



Dimensional drawing

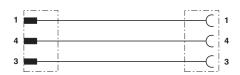


Dimensional drawing



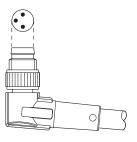
Plug M8 x 1, angled, shielded

Circuit diagram



Socket M8 x 1, straight, shielded

Schematic diagram



Contact assignment of M8 plugs/sockets

Layout of connector pin assignments

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed	LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 221474
Nominal current IN			4 A	
Nominal voltage UN			125 V	



Approvals

cUL Listed	CUL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 221474
Nominal current IN			4 A	
Nominal voltage UN			125 V	

cULus Listed

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