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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









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Sensor/Actuator cable, 3-position, PUR halogen-free, Black-gray RAL 7021, Plug straight M12, Acoded, on Free cable end, Cable length: 10 m, with plastic knurl

Key commercial data

Packing unit	0
Minimum order quantity	1
Catalog page	Page 124 (PC-2011)
GTIN	4 046356 534918
Custom tariff number	85444290
Country of origin	POLAND

Technical data

General data

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	3
Volume resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	≥ 100 MΩ
Length of cable	10 m
Stripping length of the free conductor end	50 mm
Ambient temperature (operation)	-25 °C 90 °C (Male connector / female connector)

General characteristics

Standards/regulations	M12 connector IEC 61076-2-101
Coding	A - standard
Surge voltage category	II II
Pollution degree	3
Degree of protection	IP65/IP68/IP69K
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF



Technical data

General characteristics

Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Polyamide
Status display	No

Conductor data

Cable type (abbreviation) PUR Cable abbreviation LBY11Y UL AWM Style 20549 Conductor cross section 3x 0.34 mm² (signal line) AWG signal line 22 Conductor structure signal line 42x 0.10 mm Core diameter including insulation 1.27 mm ±0.02 mm (signal line) Thickness, insulation ≥ 0.21 mm (Core insulation) Thickness, insulation Approx. 0.8 mm (Outer cable sheath) External cable diameter 4.4 mm ±0.15 mm Wire colors brown, blue, black External sheath, color Black-gray RAL 7021 Insulation resistance ≥ 100 GCP*km (at 20 °C) Conductor resistance max 58 Cl/km (at 20 °C) Nominal vollage, conductor ≥ 3000 V Test voltage, conductor ≥ 3000 V Overall twist 3 wires, twisted Outer sheath, meterial PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 2m Number of bending cycl	Cable type	PUR halogen-free black
UL AWM Style 20549 Conductor cross section 3x 0.34 mm² (signal line) AWG signal line 22 Conductor structure signal line 42x 0.10 mm Core diameter including insulation 1.27 mm ±0.02 mm (signal line) Thickness, insulation 2.0.21 mm (Core insulation) Thickness, insulation Approx. 0.8 mm (Outer cable sheath) External cable diameter 4.4 mm ±0.15 mm Wire colors brown, blue, black External sheath, color Black-gray RAL 7021 Insulation resistance > 100 GD*km (at 20 °C) Conductor resistance \$ 300 V Nominal voltage, conductor \$ 3000 V Test voltage, conductor \$ 3000 V Overall twist 3 wires, twisted Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending	Cable type (abbreviation)	PUR
Conductor cross section 3x 0.34 mm² (signal line) AWG signal line 22 Conductor structure signal line 42x 0.10 mm Core diameter including insulation 1.27 mm ±0.02 mm (signal line) Thickness, insulation ≥ 0.21 mm (Core insulation) Thickness, insulation Approx. 0.8 mm (Outer cable sheath) External cable diameter 4.4 mm ±0.15 mm Wire colors brown, blue, black External sheath, color Black-gray RAL 7021 Insulation resistance ≥ 100 GΩ*km (at 20 °C) Conductor resistance max. 58 Ω/km (at 20 °C) Conductor resistance 300 V Overall twist 3 wires, twisted Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Traversing path 10 m Traversing grate 3 m/s Acceleration 10 m/s² Ambient temperature	Cable abbreviation	Li9Y11Y
AWG signal line 22 Conductor structure signal line 42x 0.10 mm Core diameter including insulation 1.27 mm ±0.02 mm (signal line) Thickness, insulation 2.0.21 mm (Core insulation) Thickness, insulation Approx. 0.8 mm (Outer cable sheath) External cable diameter 4.4 mm ±0.15 mm Wire colors brown, blue, black External sheath, color Black-gray RAL 7021 Insulation resistance > 100 GP*km (at 20 °C) Conductor resistance max. 58 Q/km (at 20 °C) Nominal voltage, conductor < 300 V	UL AWM Style	20549
Conductor structure signal line 42x 0.10 mm Core diameter including insulation 1.27 mm ±0.02 mm (signal line) Thickness, insulation ≥ 0.21 mm (Core insulation) Thickness, insulation Approx. 0.8 mm (Outer cable sheath) External cable diameter 4.4 mm ±0.15 mm Wire colors brown, blue, black External sheath, color Black-gray RAL 7021 Insulation resistance > 100 GO*km (at 20 °C) Conductor resistance max. 58 Ω/km (at 20 °C) Conductor resistance ≥ 3000 V Overall voltage, conductor ≥ 3000 V Overall twist 3 wires, kwisted Outer sheath, material PUR Material conductor insulation PP Conductor material 28 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m Traversing path 10 m Traversing path 10 m Arceleration <td< td=""><td>Conductor cross section</td><td>3x 0.34 mm² (signal line)</td></td<>	Conductor cross section	3x 0.34 mm² (signal line)
Core diameter including insulation 1.27 mm ±0.02 mm (signal line) Thickness, insulation ≥ 0.21 mm (Core insulation) Thickness, insulation Approx. 0.8 mm (Outer cable sheath) External cable diameter 4.4 mm ±0.15 mm Wire colors brown, blue, black External sheath, color Black-gray RAL 7021 Insulation resistance ≥ 100 GΩ*km (at 20 °C) Conductor resistance max. 58 Ω/km (at 20 °C) Nominal voltage, conductor ≥ 3000 V Test voltage, conductor ≥ 3000 V Overall twist 3 wires, twisted Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m/s² Acceleration 10 m/s² Ambient temperature (operation) -40 °C80 °C (cable, fixed installation)	AWG signal line	22
Thickness, insulation ≥ 0.21 mm (Core insulation) Thickness, insulation Approx. 0.8 mm (Outer cable sheath) External cable diameter 4.4 mm ± 0.15 mm Wire colors brown, blue, black External sheath, color Black-gray RAL 7021 Insulation resistance ≥ 100 GΩ*km (at 20 °C) Conductor resistance max. 58 Ω/km (at 20 °C) Nominal voltage, conductor ≥ 3000 V Test voltage, conductor ≥ 3000 V Overall lwist PPR Outer sheath, material PPR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Traversing radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) 40 °C 80 °C (cable, fixed installation) Special properties Flexible cable conduit capable Special properties Free of substances which would hinder coating with paint or varnish DIN VDE 0472 part 815 Fiame resistance to oil 10 m lon accordance with DIN VDE 0472 part 815 Fiame resistance to oil 10 m lon accordance with DIN VDE 0472 part 815 Fiame resistance to oil 10 m lon accordance with DIN VDE 0472 part 815 Fiame resistance to oil 10 m accordance with DIN VDE 0472 part 815 Fiame resistance to oil 10 m accordance with DIN VDE 0472 part 815 Fiame resistance to oil 10 m accordance with DIN VDE 0472 part 815 Fiame resistance to oil 10 m accordance with DIN VDE 0472 part 815 Fiame resistance to oil 10 m accordance with DIN VDE 0472 part 815 Fiame resistance to oil 10 m accordance with DIN VDE 0472 part 815 Fiame resistance to oil 10 m accordance with DIN VDE 0472 part 815 Fiame resistance to oil 10 m accordance with DIN VDE 0472 part 815 Fiame resistance to oil 10 m accordance with DIN VDE 0472 part 815	Conductor structure signal line	42x 0.10 mm
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External cable diameter 4.4 mm ±0.15 mm Wire colors brown, blue, black External sheath, color Black-gray RAL 7021 Insulation resistance ≥ 100 GΩ*km (at 20 °C) Conductor resistance max. 58 Ω/km (at 20 °C) Nominal voltage, conductor ≥ 3000 V Overall twist 3 wires, twisted Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m/s² Acceleration 10 m/s² Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties Free of substances which would hinder coating with paint or variants with a coordance with DIN UL-Style 20549	Thickness, insulation	≥ 0.21 mm (Core insulation)
Wire colors brown, blue, black External sheath, color Black-gray RAL 7021 Insulation resistance ≥ 100 GΩ*km (at 20 °C) Conductor resistance max. 58 Ω/km (at 20 °C) Nominal voltage, conductor ≤ 300 V Test voltage, conductor ≥ 3000 V Overall twist 3 wires, twisted Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending radius 44 mm Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties Silicone-free Special properties Free dsubstances which would hinder coating with p	Thickness, insulation	Approx. 0.8 mm (Outer cable sheath)
External sheath, color Black-gray RAL 7021 Insulation resistance ≥ 100 GΩ*km (at 20 °C) Conductor resistance max. 58 Ω/km (at 20 °C) Nominal voltage, conductor ≤ 300 V Test voltage, conductor ≥ 3000 V Overall twist 3 wires, twisted Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -5 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties Flexible cable conduit capable Special properties re of substances which would hinder coating	External cable diameter	4.4 mm ±0.15 mm
Insulation resistance ≥ 100 GΩ*km (at 20 °C) Conductor resistance max. 58 Ω/km (at 20 °C) Nominal voltage, conductor ≥ 3000 V Overall twist 3 wires, twisted Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) 40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties Silicone-free Special properties 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 EN 60811-2-1	Wire colors	brown, blue, black
Conductor resistance max. 58 Ω/km (at 20 °C) Nominal voltage, conductor ≤ 300 V Test voltage, conductor ≥ 3000 V Overall twist 3 wires, twisted Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties Silicone-free Special properties 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 DE 0472 part 815 Resistance to oi	External sheath, color	Black-gray RAL 7021
Nominal voltage, conductor ≤ 300 V Test voltage, conductor ≥ 3000 V Overall twist 3 wires, twisted Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties Silicone-free Special properties Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN VDE 0472 part 815 Halogen-free in accordance with DIN VDE 0472 part 815	Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Test voltage, conductor ≥ 3000 V Overall twist 3 wires, twisted Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Silicone-free Special properties Silicone-free Special properties in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815 Resistance to oil	Conductor resistance	max. 58 Ω/km (at 20 °C)
Overall twist Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending rycles 400000 Bending rycles 4000000 Bending radius Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) Ambient temperature (operation) Special properties Special properties Special properties Free of substances which would hinder coating with paint or varnish Flame resistance Halogen-free Resistance to oil Nater Cultivaries Swinces (with DIN VDE 0472 part 815 Flexible cable conduit cap with DIN En 60811-2-1	Nominal voltage, conductor	≤ 300 V
Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties Silicone-free Special properties 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 Resistance to oil in accordance with DIN EN 60811-2-1	Test voltage, conductor	≥ 3000 V
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Conductor material Bare Cu litz wires Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties Special properties 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 Resistance to oil	Outer sheath, material	PUR
Cable weight 26 kg/km Smallest bending radius, fixed installation 22 mm Smallest bending radius, movable installation 44 mm Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties Special properties Special properties 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 Resistance to oil	Material conductor insulation	PP
Smallest bending radius, fixed installation Smallest bending radius, movable installation A4 mm Number of bending cycles Bending radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) Ambient temperature (operation) Appecial properties Flexible cable conduit capable Special properties Special properties Special properties Free of substances which would hinder coating with paint or varnish Flame resistance In accordance with DIN UL-Style 20549 Halogen-free Resistance to oil Examples of the minimum of the mini	Conductor material	Bare Cu litz wires
Smallest bending radius, movable installation Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) Ambient temperature (operation) 40 °C 80 °C (cable, fixed installation) Flexible cable conduit capable Special properties Special properties Special properties Special properties Free of substances which would hinder coating with paint or varnish Flame resistance In accordance with DIN UL-Style 20549 Halogen-free Resistance to oil A000000 Ammient temperature (operation) 10 m 10 m 10 m 10 m 10 m/s² 1	Cable weight	26 kg/km
Number of bending cycles 4000000 Bending radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties Silicone-free Special properties 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 Resistance to oil in accordance with DIN EN 60811-2-1	Smallest bending radius, fixed installation	22 mm
Bending radius 44 mm Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) Ambient temperature (operation) 40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) 5pecial properties Flexible cable conduit capable Special properties Silicone-free Special properties Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free Resistance to oil in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 60811-2-1	Smallest bending radius, movable installation	44 mm
Traversing path Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) Ambient temperature (operation) -25 °C 80 °C (cable, fixed installation) Special properties Flexible cable conduit capable Special properties Silicone-free Special properties Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free Resistance to oil 10 m/s² -40 °C 80 °C (cable, fixed installation) -25 °C 80 °C (cable, flexible installation) Flexible cable conduit capable Silicone-free in accordance which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549 in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 60811-2-1	Number of bending cycles	4000000
Traversing rate 3 m/s Acceleration 10 m/s² Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties Silicone-free Special properties 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 Resistance to oil in accordance with DIN EN 60811-2-1	Bending radius	44 mm
Acceleration 10 m/s² Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties Silicone-free Special properties 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 Resistance to oil in accordance with DIN EN 60811-2-1	Traversing path	10 m
Ambient temperature (operation) Ambient temperature (operation) -25 °C 80 °C (cable, fixed installation) Special properties Flexible cable conduit capable Special properties Silicone-free Special properties Free of substances which would hinder coating with paint or varnish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free Resistance to oil in accordance with DIN EN 60811-2-1	Traversing rate	3 m/s
Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation) Special properties Flexible cable conduit capable Special properties 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 Resistance to oil in accordance with DIN EN 60811-2-1	Acceleration	10 m/s²
Special properties 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 Resistance to oil in accordance with DIN EN 60811-2-1	Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
Special properties Special properties 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 Resistance to oil in accordance with DIN EN 60811-2-1	Ambient temperature (operation)	-25 °C 80 °C (cable, flexible installation)
Special properties 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 Resistance to oil in accordance with DIN EN 60811-2-1	Special properties	Flexible cable conduit capable
ranish Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815 Resistance to oil in accordance with DIN EN 60811-2-1	Special properties	Silicone-free
Halogen-free in accordance with DIN VDE 0472 part 815 Resistance to oil in accordance with DIN EN 60811-2-1	Special properties	
Resistance to oil in accordance with DIN EN 60811-2-1	Flame resistance	in accordance with DIN UL-Style 20549
	Halogen-free	in accordance with DIN VDE 0472 part 815
Other resistance Highly resistant to acids, alkaline solutions and solvents	Resistance to oil	in accordance with DIN EN 60811-2-1
	Other resistance	Highly resistant to acids, alkaline solutions and solvents

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Technical data

Conductor data

Other resistance	hydrolysis and microbe resistant	
Other resistance	partly UV-resistant in accordance with DIN EN ISO 4892-2-A	

Classifications

eclass

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27279218
eCl@ss 7.0	27279218

etim

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855

unspsc

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

Approvals

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Approvals

GOST

Ex Approvals

Approvals submitted

Approval details





Accessories

Accessories

Fuse

Fuse clip - SAC-M12-EXCLIP-M - 1558988



Fuse clip for the pin side of various M12 sensor/actuator connectors prevents plug-in connections being interrupted without using a tool

Marking

Insert label - PABA WH/15 - 1013151



Insert label, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: $15 \times 4 \text{ mm}$

Insert label - PABA YE/15 - 1013698



Insert label, yellow, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: $15 \times 4 \text{ mm}$

Insert label - PABA RD/15 - 1013944



Insert label, red, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15×4 mm

Conductor marker carrier - PATG 2/23 - 1013850



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 2-4 mm, Lettering field: $4 \times 23 \text{ mm}$



Accessories

Conductor marker carrier - PATG 3/23 - 1013863



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 23 mm

Conductor marker carrier - PATG 4/23 - 0808011



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 6-10 mm, Lettering field: 4×23 mm

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Protection and sealing elements

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 sockets



Tools

Cable-cutting tool - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested



Accessories

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 \mbox{Nm}

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

Tool - SAC BIT M12-D15 - 1208432



Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive



Accessories

Drawings

Schematic diagram



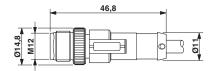
Pin assignment M12 plug, 3-pos., A-coded, view male side

Cable cross section



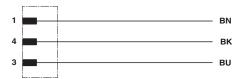
PUR halogen-free black [PUR]

Dimensioned drawing



M12 x 1 male connector, straight

Circuit diagram



Contact assignment of the M12 plug

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