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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, cable length: 3 m, with plastic knurl

Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- Save weight our connectors with light plastic knurl



Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 535137
GTIN	4046356535137
Weight per Piece (excluding packing)	100.000 g
Custom tariff number	85444290
Country of origin	Poland

Technical data

Dimensions

Length of cable	3 m
Stripping length of the free conductor end	50 mm

Ambient conditions

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



Technical data

Ambient conditions

	IP68	
General	General	
Rated current at 40°C	4 A	
Rated voltage	250 V AC	
	250 V DC	
Number of positions	4	
Insulation resistance	\geq 100 M Ω	
Coding	A - standard	
Standards/regulations	M12 connector IEC 61076-2-101	
Status display	No	
Protective circuit/component	Unwired	
Overvoltage category	II	
Degree of pollution	3	
Insertion/withdrawal cycles	≥ 100	
Torque	0.4 Nm (M12 connector)	

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	Polyamide
Sealing material	NBR

Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	НВ

Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
UL AWM style	20549 / 10493 (80°C/300 V)
Conductor cross section	4x 0.34 mm²
AWG signal line	22
Conductor structure signal line	42x 0.10 mm



Technical data

Cable

Trickness, insulation	Core diameter including insulation	1.27 mm ±0.02 mm
Wire colors brown, white, blue, black Overall Wist 4 wires, twisted External sheath, color black-gray RAL 7021 Outer sheath thickness approx. 0.5 mm External cable diameter D 4.2 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Number of bending cycles 10000000 Minimum bending radius, fixed plan applications 10 x D Traversing path 10 m Traversing path 10 m Traversing path 10 m/s² Acceleration 10 m/s² Acceleration 10 m/s² Cable weight 30 kg/km User sheath, material PP Meterial conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GOr/km Conductor material \$ 300 V Test voltage, cable ≥ 300 V Special properties Flexible cable conduit capable Fere of substances which would hinder coating with paint or varnish flexible in accordance with ULT 758/1581 FT2 Flame resistance in accordance w		≥ 0.21 mm
External sheath, color black-gray RAL 7021 Outer sheath thickness approx 0.5 mm External cable diameter D 4.2 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Number of bending cycles 10000000 Minimum bending radius, drag chain applications 10 x D Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 30 kg/km Outer sheath, material PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km Conductor resistance ≥ 5 G Ω/km Conductor resistance ≥ 300 V Test voltage, cable ≥ 3000 V Special properties Flexible cable conduit capable Flexible cable conduit capable Free of substances which would hinder coating with paint or varnish flexible Flame resistance in accordance with DIN VDE 0472 part 815 Flame resistance in accordance with DIN EN 80267-2-1 Resistance to oil in accordance with DIN		brown, white, blue, black
Outer sheath thickness approx. 0.5 mm External cable diameter D 4.2 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Number of bending cycles 10000000 Minimum bending radius, fixed installation 10 x D Minimum bending radius, fixed installation 10 x D Minimum bending radius, drag chain applications 10 x D Traversing path 10 m S ² Cable weight 30 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance 2 1 GΩ*km Conductor resistance 2 50 Ω/km Nominal voltage, cable 2 3000 V Special properties Flexible cable conduit capable Special properties Flexible cable conduit dapable Flame resistance In accordance with UI 758/1581 FT2 Inal part of the cable conduit capable In accordance with UI 758/1581 FT2 Flame resistance In accordance with DIN VDE 0472 part 815 In accordance with DIN EN 50267-2-1 In accordance with DIN EN 50267-2-1	Overall twist	4 wires, twisted
External cable diameter D 4.2 mm ±0.15 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Minimum bending radius, dray chain applications 10 x D Minimum bending radius, dray chain applications 10 m Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 30 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance 2 1 GO*km Conductor resistance 2 58 Ø/km Nominal voltage, cable 2 300 V Sepcial properties Flexible cable conduit capable Special properties Flexible cable conduit dapable Flame resistance flexible Flame resistance in accordance with DIN EXP (594 1581 FT2 DIN EX 60332-22 (20 s) In accordance with DIN EX 50267-2-1 Resistance to oil in accordance with DIN EX 50267-2-1 Resistance to oil in accordance with DIN EX 60811-2-1	External sheath, color	black-gray RAL 7021
Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Number of bending cycles 10000000 Minimum bending radius, drag chain applications 10 x D Traversing path 10 m Acceleration 10 m/s² Cable weight 30 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km Conductor resistance ≤ 58 Ω/km Nominal voltage, cable ≥ 3000 V Test voltage, cable ≥ 3000 V Special properties Silicone-free Flexible cable conduit capable Silicone-free Flexe resistance In accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) In accordance with DIN PE 0472 part 815 Halogen-free in accordance with DIN EN 60811-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 Other resistance Highly resistant to acids, alkaline solutions and solvents Hydrolysis and microbe resistant partly U	Outer sheath thickness	approx. 0.5 mm
Minimum bending radius, flexible installation 10 x D Number of bending cycles 10000000 Minimum bending radius, drag chain applications 10 x D Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 30 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km Conductor resistance ≥ 1 GΩ*km Conductor resistance ≤ 58 Ω/km Nominal voltage, cable ≥ 300 V Test voltage, cable ≥ 300 V Special properties Silicone-free Free of substances which would hinder coating with paint or varnish fexible Filame resistance in accordance with UL 758/1581 FT2 Halogen-free in accordance with DIN VDE 0472 part 815 Halogen-free in accordance with DIN VDE 0472 part 815 Resistance to oil in accordance with DIN EN 5081-2-1 Other resistance Highly resistant to accordance with DIN EN 5081-2-1 <	External cable diameter D	4.2 mm ±0.15 mm
Number of bending cycles 10000000 Minimum bending radius, drag chain applications 10 x D Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 30 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km Conductor resistance ≤ 58 Ω/km Nominal voltage, cable ≥ 3000 V Special properties Flexible cable conduit capable Special properties Flexible cable conduit capable Flame resistance 5 licone-free Flame resistance in accordance with U.T 58/1581 FT2 Iname resistance in accordance with U.T 58/1581 FT2 Iname resistance in accordance with DIN VDE 0472 part 815 In accordance with DIN VDE 0472 part 815 in accordance with DIN EN 60811-2-1 Other resistance to oil in accordance with DIN EN 60811-2-1 Other resistance Highly resistant to acids, alkaline solutions and solvents Hydrolysis and microbe resistant </td <td>Minimum bending radius, fixed installation</td> <td>5 x D</td>	Minimum bending radius, fixed installation	5 x D
Minimum bending radius, drag chain applications 10 x D Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 30 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GO*km Conductor resistance ≤ 58 O/km Nominal voltage, cable ≥ 3000 V Special properties Flexible cable conduit capable Feat voltage, cable \$ 3000 V Special properties Flexible cable with UL 758/1581 FT2 Flame resistance in accordance with UL 758/1581 FT2 Flame resistance DIN EN 60332-2-2 (20 s) Halogen-free in accordance with DIN VDE 0472 part 815 Resistance to oil in accordance with DIN EN 60811-2-1 Other resistance Highy resistant to acids, alkaline solutions and solvents Hydrolysis and microbe resistant partly UV-resistant in accordance with DIN EN ISO 4892-2-A Low adhesion Low adhesion	Minimum bending radius, flexible installation	10 x D
Traversing path 10 m Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 30 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km Conductor resistance ≤ 58 Ω/km Nominal voltage, cable ≤ 300 V Secial properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) Halogen-free Halogen-free in accordance with DIN VDE 0472 part 815 Resistance to oil in accordance with DIN EN 6031-2-1 Other resistance Highly resistant to acids, alkaline solutions and solvents hydrolysis and microbe resistant partly UV-resistant in accordance with DIN EN 150 4892-2-A Low adhesion abrasion-resistant	Number of bending cycles	10000000
Traversing rate 3 m/s Acceleration 10 m/s² Cable weight 30 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km Conductor resistance ≤ 58 Ω/km Nominal voltage, cable ≤ 3000 V Test voltage, cable ≥ 3000 V Special properties Flexible cable conduit capable Flexible able conduit capable Silicone-free Flexible able conduit capable Silicone-free Flexible able conduit capable The conductor with conduit capable Flexible able conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60322-2 (20 s) The conductor with DIN VDE 0472 part 815 Resistance to oil in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 Other resistance Highly resistant to acids, alkaline solutions and solvents <td< td=""><td>Minimum bending radius, drag chain applications</td><td>10 x D</td></td<>	Minimum bending radius, drag chain applications	10 x D
Acceleration 10 m/s² Cable weight 30 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km Conductor resistance ≤ 58 Ω/km Nominal voltage, cable ≤ 300 V Special properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish Fame resistance in accordance with UL 758/1581 FT2 Flame resistance DIN EN 60332-2-2 (20 s) Halogen-free in accordance with DIN VDE 0472 part 815 Resistance to oil in accordance with DIN EN 50267-2-1 Other resistance Highly resistant to acids, alkaline solutions and solvents Hydrolysis and microbe resistant partly UV-resistant in accordance with DIN EN 60811-2-1 Cuber resistance Low adhesion Low adhesion abrasion-resistant	Traversing path	10 m
Cable weight 30 kg/km Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km Conductor resistance ≤ 58 Ω/km Nominal voltage, cable ≤ 300 V Test voltage, cable ≥ 3000 V Special properties Flexible cable conduit capable Slicone-free Free of substances which would hinder coating with paint or varnish flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) In accordance with DIN VDE 0472 part 815 Halogen-free in accordance with DIN VDE 0472 part 815 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant	Traversing rate	3 m/s
Outer sheath, material PUR Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km Conductor resistance ≤ 58 Ω/km Nominal voltage, cable ≤ 300 V Test voltage, cable ≥ 3000 V Special properties Flexible cable conduit capable Flexible and conductions which would hinder coating with paint or varnish flexible Free of substances which would hinder coating with paint or varnish flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 Other resistance 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 Low adhesion Breast on-resistant abrasion-resistant	Acceleration	10 m/s ²
Material conductor insulation PP Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km Conductor resistance ≤ 58 Ω/km Nominal voltage, cable ≤ 300 V Test voltage, cable ≥ 3000 V Special properties Flexible cable conduit capable Insulation resistance Silicone-free Free of substances which would hinder coating with paint or varnish flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) In accordance with DIN VDE 0472 part 815 Halogen-free in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant	Cable weight	30 kg/km
Conductor material Bare Cu litz wires Insulation resistance ≥ 1 GΩ*km Conductor resistance ≤ 58 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 flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) DIN EN 60332-2-2 (20 s) Halogen-free in accordance with DIN VDE 0472 part 815 In accordance with DIN EN 50267-2-1 in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant	Outer sheath, material	PUR
Insulation resistance $≥ 1 \text{ G}Ω^*\text{km}$ Conductor resistance $≤ 58 \Omega/\text{km}$ Nominal voltage, cable $≤ 300 \text{ V}$ Test voltage, cable $≥ 3000 \text{ V}$ Special properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) Halogen-free Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 in accordance with DIN EN 60811-2-1 Other resistance Highly resistant to acids, alkaline solutions and solvents Highly under the partly UV-resistant in accordance with DIN EN ISO 4892-2-A Low adhesion abrasion-resistant	Material conductor insulation	PP
Conductor resistance ≤ 58 Ω/km Nominal voltage, cable ≤ 300 V Test voltage, cable ≥ 3000 V Special properties Flexible cable conduit capable Silicone-free Flexible cable would hinder coating with paint or varnish flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) DIN EN 60332-2-2 (20 s) Halogen-free in accordance with DIN VDE 0472 part 815 Resistance to oil in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant	Conductor material	Bare Cu litz wires
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 flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) 1 Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 1 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant	Insulation resistance	≥ 1 GΩ*km
Test voltage, cable Special properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant	Conductor resistance	≤ 58 Ω/km
Special properties Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant	Nominal voltage, cable	≤ 300 V
Silicone-free Free of substances which would hinder coating with paint or varnish flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant	Test voltage, cable	≥ 3000 V
Free of substances which would hinder coating with paint or varnish flexible Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant	Special properties	Flexible cable conduit capable
Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant		Silicone-free
Flame resistance in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s) Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant		Free of substances which would hinder coating with paint or varnish
DIN EN 60332-2-2 (20 s) Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant		flexible
Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant	Flame resistance	in accordance with UL 758/1581 FT2
in accordance with DIN EN 50267-2-1 Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant		DIN EN 60332-2-2 (20 s)
Resistance to oil in accordance with DIN EN 60811-2-1 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 Low adhesion abrasion-resistant	Halogen-free	in accordance with DIN VDE 0472 part 815
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 Low adhesion abrasion-resistant		in accordance with DIN EN 50267-2-1
hydrolysis and microbe resistant partly UV-resistant in accordance with DIN EN ISO 4892-2-A Low adhesion abrasion-resistant	Resistance to oil	in accordance with DIN EN 60811-2-1
partly UV-resistant in accordance with DIN EN ISO 4892-2-A Low adhesion abrasion-resistant	Other resistance	Highly resistant to acids, alkaline solutions and solvents
Low adhesion abrasion-resistant		hydrolysis and microbe resistant
abrasion-resistant		partly UV-resistant in accordance with DIN EN ISO 4892-2-A
		Low adhesion
Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation)		abrasion-resistant
	Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)



Technical data

Cable

-25 °C 80 °C (cable, flexible installation)

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

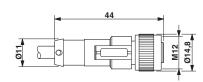
Drawings

Schematic diagram



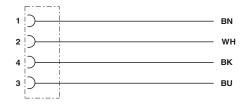
Pin assignment M12 socket, 4-pos., A-coded, view female side

Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061800
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218



Classifications

eCl@ss

eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855
ETIM 6.0	EC001855

UNSPSC

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

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC [FI]

EAC-Zulassung

Accessories

Accessories

Conductor marking



Accessories

Insert label - PABA WH/23 - 1013779



Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 - 35 mm, lettering field size: 23 x 4 mm

Insert label - PABA YE/23 - 1013782



Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 - 35 mm, lettering field size: 23 x 4 mm

Insert label - PABA WH/15 - 1013151



Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 0.6 - 50 mm, lettering field size: 15 x 4 mm

Insert label - PABA YE/15 - 1013698



Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 0.6 - 50 mm, lettering field size: 15×4 mm

Insert label - PABA RD/15 - 1013944



Insert label, Strip, red, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 0.6 - 50 mm, lettering field size: 15 x 4 mm

Corrugated pipe



Accessories

Protective hose - WP-PA HF 13,0 BK - 3240681



Polyamide protective hose, inflammability class V0, UV resistant

Protective hose - WP-PA HF-HB 13,0 BK - 3240839



Polyamide protective hose, inflammability class HB, UV resistant

Cutting tools

Diagonal cutter - CUTFOX-S VDE - 1212207



Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested

Marker carrier cable

Conductor marker carrier - PATG 2/15 - 1013038



Conductor marker carrier, transparent, unlabeled, mounting type: slide on, cable diameter range: 2 - 4 mm, lettering field size: 15 x 4 mm

Conductor marker carrier - PATG 3/15 - 1013041



Conductor marker carrier, transparent, unlabeled, mounting type: slide on, cable diameter range: 4 - 7 mm, lettering field size: 15 x 4 mm



Accessories

Conductor marker carrier - PATG 4/15 - 1013054



Conductor marker carrier, transparent, unlabeled, mounting type: slide on, cable diameter range: 6 - 10 mm, lettering field size: 15 x 4 mm

Marker pen

Marker pen - B-STIFT - 1051993



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

Protective cap

Screw plug - PROT-M12 MS-PA-CHAIN - 1430899

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



Safety locking

Locking clip - SAC-M12-EXCLIP-F - 1558991



Locking clip for the socket side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools

Screwdriver tools



Accessories

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 M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

Stripping tool

Stripping tool - WIREFOX SAC-1 - 1212757



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from \emptyset of 3.2 to 4.4 mm, any stripping length

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from \emptyset 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



Accessories

Torque tool

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 Nm

Protective hose adapter - WP-CTA POM 13,0 BK - 1422884



Protective hose adapter, for corrugated hoses with a nominal size of 13 (10 x 13), corrugated in parallel

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