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Sensor/actuator cable, 5-position, Variable cable type, Plug angled M12, coding: A, on free cable end, cable length: Free input (0.2 ... 40.0 m)

Your advantages

☑ Easy and safe: 100% electrically tested plug-in components



Key Commercial Data

	Packing unit	1 pc
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Technical data

Dimensions

Length of cable	Free input (0.2 40.0 m)
Stripping length of the free conductor end	50 mm

Ambient conditions

Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)
	-25 °C 90 °C (Plug / socket)
Degree of protection	IP65
	IP67
	IP68

General

Rated current at 40°C	4 A
Rated voltage	48 V AC
	60 V DC
Number of positions	5
Insulation resistance	\geq 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No



Technical data

General

Protective circuit/component	unwired
Overvoltage category	П
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	Zinc die-cast, nickel-plated

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

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

PUR halogen-free gray [280]

Cable type	PUR halogen-free gray
Cable type (abbreviation)	280

PUR, black, 5th conductor gray [115]

Cable type	PUR, black, 5th conductor gray
Cable type (abbreviation)	115
Cable abbreviation	Li9Y11Y-HF
UL AWM style	20549 / 10493 (80°C/300 V)
Conductor cross section	5x 0.34 mm²
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.27 mm ±0.02 mm
Thickness, insulation	≥ 0.21 mm
Wire colors	Brown, white, blue, black, gray
Overall twist	5 cores, twisted
Outer sheath thickness	approx. 0.7 mm
External cable diameter D	5 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



Technical data

PUR, black, 5th conductor gray [115]

Bending radius	50 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Cable weight	35 kg/km
External sheath, color	black-gray RAL 7021
Outer sheath, material	PUR
Material, filler	PP
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Conductor resistance	\leq 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
Other resistance	partly UV-resistant in accordance with DIN EN ISO 4892-2-A
	hydrolysis and microbe resistant
	Resistant to salt water
	Low adhesion
	abrasion-resistant
Flame resistance	in accordance with DIN UL-Style 20549
	in accordance with UL 758/1581 FT2
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)
	-25 °C 80 °C (Cable, flexible installation)

PUR halogen-free yellow [240]

Cable type	PUR halogen-free yellow
Cable type (abbreviation)	240
Cable abbreviation	Li9Y11Y
UL AWM style	20549 / 10493 (80°C/300 V)
Conductor cross section	5x 0.34 mm²
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.27 mm ±0.02 mm
Thickness, insulation	≥ 0.21 mm
Wire colors	brown, white, blue, black, green-yellow
Overall twist	5 wires around filler to the core



Technical data

PUR halogen-free yellow [240]

Length of twist, overall twist	55 mm
Outer sheath thickness	approx. 0.7 mm
External cable diameter D	5 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
Minimum bending radius, drag chain applications	10 x D
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Cable weight	35 kg/km
External sheath, color	yellow
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Conductor resistance	\leq 58 Ω /km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Other resistance	hydrolysis and microbe resistant
-	Resistant to salt water
Flame resistance	in accordance with DIN UL-Style 20549
	in accordance with UL 758/1581 FT2
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)
	-25 °C 80 °C (Cable, flexible installation)

PUR irradiated halogen-free orange [150]

Cable type	PUR irradiated halogen-free orange
Cable type (abbreviation)	150
Cable abbreviation	D12YSL11X-JB
Conductor cross section	4x 0.34 mm² (Signal line)
	1x 0.5 mm ² (PE connection)
AWG signal line	22
AWG power supply	20
Conductor structure signal line	42x 0.10 mm
Conductor structure, voltage supply	24x 0.15 mm
Wire colors	Brown, blue, black, white, green/yellow
Overall twist	5 cores, twisted
External cable diameter D	5.2 mm ±0.2 mm
Smallest bending radius, fixed installation	min. 20 mm



Technical data

PUR irradiated halogen-free orange [150]

min. 30 mm
5000000
52 mm
10 m
3 m/s
orange RAL 2003
PUR
PE
Bare Cu litz wires
\leq 57.5 Ω /km (with 0.34 mm ² conductor cross section)
\leq 39 Ω /km (with 0.5 mm ² conductor cross section)
250 V (AC)
2000 V (50 Hz, 5 minutes)
Silicone-free
Irradiated
hydrolysis and microbe resistant
UV resistant
Resistant to welding splashes
DIN VDE 0472 part 804, test type B
The cable is halogen-free
-50 °C 105 °C (cable, fixed installation)
-40 °C 105 °C (Cable, flexible installation)

PUR halogen-free orange [180]

Cable type	PUR halogen-free orange
Cable type (abbreviation)	180
Cable abbreviation	Li9YLi9Y-11Y
UL AWM style	20549
Conductor cross section	4x 0.34 mm² (Signal line)
	1x 0.5 mm ² (PE connection)
AWG signal line	22
AWG power supply	20
Conductor structure signal line	42x 0.10 mm
Conductor structure, voltage supply	28x 0.15 mm
Core diameter including insulation	1.27 mm ±0.02 mm (Signal line)
	1.46 mm ±0.02 mm (PE connection)
Thickness, insulation	≥ 0.21 mm (Signal line)
	\geq 0.21 mm (PE connection)
	approx. 0.65 mm (Outer cable sheath)
Wire colors	brown, white, blue, black, green-yellow
Overall twist	5 wires around filler to the core



Technical data

PUR halogen-free orange [180]

External cable diameter D	5 mm ±0.15 mm
Cable weight	36 kg/km
External sheath, color	orange RAL 2003
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	\geq 10 GΩ*km (at 20 °C)
Conductor resistance	\leq 58 Ω /km (Signal line)
	\leq 39 Ω /km (PE connection)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Flame resistance	in accordance with DIN UL-Style 20549
Halogen-free	in accordance with DIN VDE 0472 part 815
Ambient temperature (operation)	-25 °C 80 °C (Cable)

PUR POWER 0.75 mm² black [186]

Cable type	PUR POWER 0.75 mm ² black
Cable type (abbreviation)	186
Cable abbreviation	LiY11Y
Conductor cross section	5x 0.75 mm ² (power line)
AWG signal line	18
Conductor structure signal line	42x 0.15 mm
Core diameter including insulation	1.7 mm ±0.05 mm
Thickness, insulation	≥ 0.23 mm (Core insulation)
	\geq 0.76 mm (Outer cable sheath)
Wire colors	Brown, white, blue, black, gray
Overall twist	5 wires around filler to the core
External cable diameter D	6.3 mm ±0.2 mm
Smallest bending radius, movable installation	63 mm
Number of bending cycles	2000000
Bending radius	63 mm
Traversing path	5 m
Traversing rate	3 m/s
Acceleration	5 m/s ²
Cable weight	67 kg/km
External sheath, color	black-gray RAL 7021
Outer sheath, material	PUR
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	\geq 1 MΩ*km (at 20 °C)
Conductor resistance	max. 26 Ω/km (at 20 °C)



Technical data

PUR POWER 0.75 mm² black [186]

Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Flame resistance	in accordance with DIN UL-Style 20549
Ambient temperature (operation)	-25 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

PUR halogen-free gray [280]

Cable type	PUR halogen-free gray
Cable type (abbreviation)	280
Conductor cross section	0.34 mm ²
AWG signal line	22
AWG power supply	20
Conductor structure signal line	42x 0.10 mm
Conductor structure, voltage supply	28x 0.15 mm
Core diameter including insulation	1.55 mm (Signal line)
	1.65 mm (Protective conductor)
Thickness, insulation	0.39 mm (Signal line)
	0.37 mm (Protective conductor)
	0.65 mm (Outer cable sheath)
Wire colors	brown, white, blue, black, green-yellow
Overall twist	5 wires around filler to the core
External cable diameter	5.20 mm
External sheath, color	gray RAL 7001
Outer sheath, material	PUR
Material, filler	Fiberglass
Material conductor insulation	TPE
Conductor material	Bare Cu litz wires
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)
	-5 C 80 C (Cable, flexible installation)

PVC gray [500]

Cable type	PVC gray
Cable type (abbreviation)	500
Cable abbreviation	LiYY
Conductor cross section	0.34 mm ²
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.45 mm ±0.02 mm
Thickness, insulation	\geq 0.23 mm (Core insulation)
	\geq 0.76 mm (Outer cable sheath)
Wire colors	brown, white, blue, black, green-yellow
Overall twist	5 wires around filler to the core



Technical data

PVC gray [500]

External cable diameter D	5.9 mm ±0.15 mm
Cable weight	51 kg/km
External sheath, color	gray RAL 7001
Outer sheath, material	PVC
Material, filler	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	\geq 1 GΩ*km (at 20 °C)
Conductor resistance	max. 58 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V (AC)
Test voltage, cable	≥ 3000 V (AC)
Flame resistance	As per UL-Style 2464
	according to UL 758/1581 FT1
Resistance to oil	in accordance with DIN EN 60811-2-1
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (Cable, flexible installation)

PVC black 5th conductor gray [515]

Cable type	PVC black 5th conductor gray	
Cable type (abbreviation)	515	
Cable abbreviation	LiYY	
UL AWM style	2464 / 1729 (80°C/300 V)	
Conductor cross section	5x 0.34 mm² (Signal line)	
AWG signal line	22	
Conductor structure signal line	42x 0.10 mm	
Core diameter including insulation	1.45 mm ±0.02 mm	
Thickness, insulation	\geq 0.23 mm (Core insulation)	
	\geq 0.76 mm (Outer cable sheath)	
Wire colors	Brown, white, blue, black, gray	
Overall twist	5 wires around filler to the core	
Length of twist, overall twist	60 mm	
External cable diameter D	5.9 mm ±0.15 mm	
Minimum bending radius, fixed installation	5 x D	
Minimum bending radius, flexible installation	10 x D	
Cable weight	52 kg/km	
External sheath, color	black RAL 9005	
Outer sheath, material	PVC	
Material, filler	PP yarn	
Material conductor insulation	PVC	
Conductor material	Bare Cu litz wires	
Insulation resistance	\geq 100 MΩ*km (at 20 °C)	



Technical data

PVC black 5th conductor gray [515]

Conductor resistance	\leq 58 Ω /km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage, cable	≥ 3000 V AC
Flame resistance	According to UL 758/1581 (Cable Flame)
	according to UL 758/1581 FT1
	According to DIN EN 60332-1-2 (60 s)
Resistance to oil	according to DIN EN 60811-2-1, 168 h at 60 °C
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (Cable, flexible installation)

PVC gray 5th conductor gray [520]

Cable type	PVC gray 5th conductor gray
Cable type (abbreviation)	520
Cable abbreviation	LiYY
Conductor cross section	0.34 mm ²
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.45 mm ±0.02 mm
Thickness, insulation	≥ 0.23 mm (Core insulation)
	\geq 0.76 mm (Outer cable sheath)
Wire colors	Brown, white, blue, black, gray
Overall twist	5 wires around filler to the core
Length of twist, overall twist	55 mm
External cable diameter D	5.9 mm ±0.15 mm
Cable weight	54 kg/km
External sheath, color	gray RAL 7001
Outer sheath, material	PVC
Material, filler	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	\geq 1 GΩ*km (at 20 °C)
Conductor resistance	max. 58 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Flame resistance	As per UL-Style 2464
Ambient temperature (operation)	-25 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

PVC yellow [540]

Cable type	PVC yellow
Cable type (abbreviation)	540
Cable abbreviation	LIFYY



Technical data

PVC yellow [540]

Conductor cross section	0.34 mm ²
AWG signal line	22
Conductor structure signal line	43x 0.10 mm
Core diameter including insulation	1.45 mm ±0.02 mm
Thickness, insulation	approx. 0.23 mm (Core insulation)
	approx. 0.76 mm (Outer cable sheath)
Wire colors	brown, white, blue, black, green-yellow
Overall twist	5 wires around filler to the core
Length of twist, overall twist	70 mm
External cable diameter D	5.9 mm ±0.15 mm
Smallest bending radius, fixed installation	29.5 mm
Smallest bending radius, movable installation	59 mm
External sheath, color	yellow
Outer sheath, material	PVC
Material, filler	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	\geq 1 MΩ*km (at 20 °C)
Conductor resistance	max. 58 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V (AC)
Test voltage, cable	3000 V
Flame resistance	As per UL-Style 2464
	according to UL 758/1581 FT1
Resistance to oil	in accordance with DIN EN 60811-2-1
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (Cable, flexible installation)

PVC yellow 105 °C [542]

Cable type	PVC yellow 105 °C
Cable type (abbreviation)	542
Conductor cross section	0.34 mm ²
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.55 mm ±0.05 mm
Thickness, insulation	≥ 0.38 mm (Core insulation)
	\geq 0.76 mm (Outer cable sheath)
Wire colors	Brown, white, blue, black, gray
Overall twist	5 wires around filler to the core
External cable diameter D	5.9 mm ±0.2 mm
Cable weight	50 kg/km
External sheath, color	yellow



Technical data

PVC yellow 105 °C [542]

Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	\geq 100 MΩ*km (at 20 °C)
Conductor resistance	max. 58 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Flame resistance	in accordance with UL-Style 2517

Gray, highly flexible PUR [800]

Note	Due to the extremely robust outer sheath, this cable should only be stripped in 5 cm increments.
Cable type	Gray, highly flexible PUR
Cable type (abbreviation)	800
Cable abbreviation	LiF9Y11Y
UL AWM style	20549
Conductor cross section	5x 0.34 mm² (Signal line)
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.3 mm ±0.05 mm (Signal line)
Wire colors	Black, brown,blue, white, gray
Overall twist	5 wires around filler to the core
External cable diameter D	5.1 mm ±0.2 mm
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	7.5 x D
Number of bending cycles	1000000
Minimum bending radius, drag chain applications	7,5 x D
Traversing path	5 m
Traversing rate	3.3 m/s
Acceleration	5 m/s ²
Number of bending cycles	1500000
Bending radius	50 mm
Traversing path	0.9 m
Traversing rate	5 m/s
Acceleration	30 m/s ²
Torsion force	± 360 °/m (1 000 000 torsion cycles)
Cable weight	38 kg/km
External sheath, color	gray RAL 7001
Outer sheath, material	PUR
Material, filler	PE
Material conductor insulation	PP



Technical data

Gray, highly flexible PUR [800]

Bare Cu litz wires
\geq 20 MΩ*km
approx. 53 Ω/km
300 V
2000 V
Cable jacket is welding spark-resistant, recyclable, matt, low-adhesion, abrasion-resistant, flame-retardant, and self-extinguishing
Free from silicone and cadmium
Free of substances which would hinder coating with paint or varnish
Highly resistant to acids, alkaline solutions and solvents
Silicone-free
in accordance with UL 758/1581 FT2
in accordance with DIN VDE 0472 part 815
in accordance with DIN EN 60811-2-1
-40 °C 80 °C (cable, fixed installation)
-25 °C 80 °C (Cable, flexible installation)

PUR halogen-free black [PUR]

	DUD below of free block
Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
UL AWM style	20549
Conductor cross section	5x 0.34 mm ² (Signal line)
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.27 mm ±0.02 mm (Signal line)
Thickness, insulation	approx. 0.5 mm
Wire colors	brown, white, blue, black, green-yellow
External cable diameter D	4.55 mm ±0.15 mm
Smallest bending radius, fixed installation	23 mm
Smallest bending radius, movable installation	46 mm
Number of bending cycles	1000000
Bending radius	50 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Cable weight	33 kg/km
External sheath, color	black-gray RAL 7021
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	\geq 16 GΩ*km (at 20 °C)



Technical data

PUR halogen-free black [PUR]

Conductor resistance	max. 58 Ω/km (at 20 °C)
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
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
	Resistant to salt water
	partly UV-resistant in accordance with DIN EN ISO 4892-2-A
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
Resistance to oil	in accordance with DIN EN 60811-2-1
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (Cable, flexible installation)

PVC black [PVC]

Cable type	PVC black
Cable type (abbreviation)	PVC
Cable abbreviation	LiYY
UL AWM style	2464 / 1729 (80°C/300 V)
Conductor cross section	5x 0.34 mm² (Signal line)
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.45 mm ±0.02 mm
Thickness, insulation	≥ 0.23 mm (Core insulation)
Wire colors	brown, white, blue, black, green-yellow
Overall twist	5 wires around filler to the core
Outer sheath thickness	≥ 0.76 mm
External cable diameter D	5.9 mm ±0.15 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Cable weight	51 kg/km
External sheath, color	black RAL 9005
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	\geq 200 MΩ*km (at 20 °C)
Conductor resistance	max. 58 Ω/km (at 20 °C)



Technical data

PVC black [PVC]

Nominal voltage, cable	\leq 300 V
Test voltage, cable	≥ 3000 V
Flame resistance	As per UL-Style 2464
	according to UL 758/1581 FT1
Resistance to oil	According to DIN EN 60811-2-1, 168 h at 90°C
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-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



Dimensional drawing



Pin assignment M12 male connector, 5-pos., A-coded, male side

M12 x 1 male plug, angled

Circuit diagram



Contact assignment of M12 plug, with exception of conductor types 115, 186, 515, 520, and 800. Here, the fifth wire is gray and not green/yellow.

Classifications

eCl@ss

eCl@ss 10.0.1	27060311
eCl@ss 11.0	27060311
eCl@ss 4.0	27060300

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Classifications

eCl@ss

eCl@ss 4.1	27060300
eCl@ss 5.0	27061800
eCl@ss 5.1	27061800
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501
UNSPSC 19.0	31251501
UNSPSC 20.0	31251501
UNSPSC 21.0	31251501

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC-RoHS / EAC / cULus Listed

Ex Approvals

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Approval details

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

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Approvals

Nominal current IN	4 A

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

EAC-RoHS	EAC	RU D- DE.HB35.B.00387
EAC	EAC	EAC-Zulassung
cULus Listed	CUL)US LISTED	

Accessories

Accessories

Conductor marking

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, Number of individual labels: 20

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, Number of individual labels: 20

Corrugated pipe

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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 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

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



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

Safety locking

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Accessories

Locking clip - SAC-M12-EXCLIP-M - 1558988



Locking clip for the pin 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

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 Ø 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 Ø of 4.4 to 7 mm, any stripping length



Accessories

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 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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