Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

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Sensor/actuator cable, 4-position, PE-X halogen-free, black, shielded, Plug straight M12 SPEEDCON, coding: A, on free cable end, cable length: 10 m, For railway applications

Your advantages

- Easy and safe: 100% electrically tested plug-in components
- Safety thanks to flame retardancy: PA 6.6 grip and radiation-cross-linked cables satisfy the most stringent requirements
- Securely locked by special vibration brake
- Resistant to temperature influences – tested for an extended temperature range and for resistance to temperature shocks
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 774291
GTIN	4046356774291
Weight per Piece (excluding packing)	566.000 g
Custom tariff number	85444290
Country of origin	Poland

Technical data

Dimensions

Length of cable	10 m

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)
Degree of protection	IP65

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Technical data

General

Note	Further products with variable cable type and variable cable length can be found in the accessories section
Rated current at 40°C	4 A
Rated voltage	48 V AC
	60 V DC
Number of positions	4
Color handle area	black
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
	Shock, vibration EN 50155
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	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material of grip body	PA 6.6
Material, knurls	Zinc die-cast, nickel-plated
Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-101
	Shock, vibration EN 50155
Flammability rating according to UL 94	V0

Cable

Cable type	Shielded black RADOX®
Cable type (abbreviation)	28R
Conductor cross section	4x 0.5 mm²
AWG signal line	20
Conductor structure signal line	19x 0.18 mm

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Technical data

Cable

Core diameter including insulation	1.43 mm
Wire colors	White 1, white 2, white 3, white 4
Overall twist	4 wires, twisted
Shielding	Tinned copper braided shield
External sheath, color	black
External cable diameter D	5.4 mm ±0.3 mm
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	4 x D
Cable weight	56 kg/km
Outer sheath, material	PE-X
Material conductor insulation	PE-X
Conductor material	Tin-plated Cu litz wires
Conductor resistance	≤ 40.1 Ω/km
Nominal voltage, cable	600 V AC (Core-ground, U_0)
	1000 V AC (Core-ground, U)
	≤ 720 V AC (core-ground)
	≤ 1200 V AC (Core-ground, U_m)
	≤ 900 V DC (Core-ground, V_0)
	≤ 1500 V DC (core-core)
Test voltage, cable	3500 V AC (50 Hz, 5 min.)
	8400 V DC (50 Hz, 5 min.)
Fire protection in rail vehicles	BS 6853 (Category Ia, Ib, II)
	GM/RT 2130 (Category Ia, Ib, II)
	EN 45545 (Risk level HL1 - HL3)
	DIN 5510 (Fire protection level 1, 2, 3, 4)
	NF F16-101 (Category A1, A2, B)
	NF F16-101 (Class C/F0)
	NFPA 130
	UNI CEI 11170 (Risk level LR1 - LR4)
Flame resistance	EN 60332-1-2
	EN 50266
	EN 50305, 9.1.2
	NF C32-070, 2.1
	NF C32-070, 2.2
	UL 1685, 12 (FT4)
	in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)
Halogen-free	According to EN 50267-2-1

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Technical data

Cable

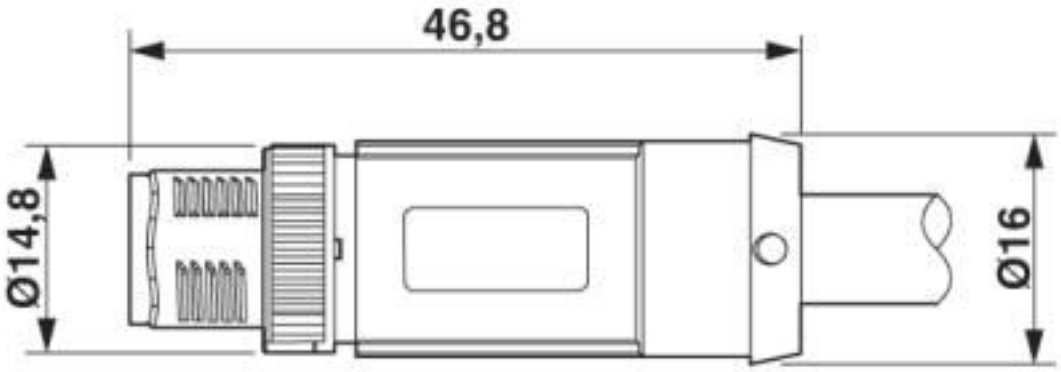
Resistance to oil	according to IRM 902, 72 h at 100 °C
Other resistance	Resistance to fuels according to IRM 903, 168 h at 70 °C
Concentration of fumes	BS 6853 D.8.7
	EN 61034-2
	UL 1685, 12 (FT4)
Fume corrosiveness	EN 50267-2-2
Fume toxicity	BS 6853 B.1
	EN 50305, 9.2
Ambient temperature (operation)	-50 °C ... 120 °C (cable, fixed installation)
	-25 °C ... 90 °C (cable, flexible installation)

Environmental Product Compliance

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

Drawings

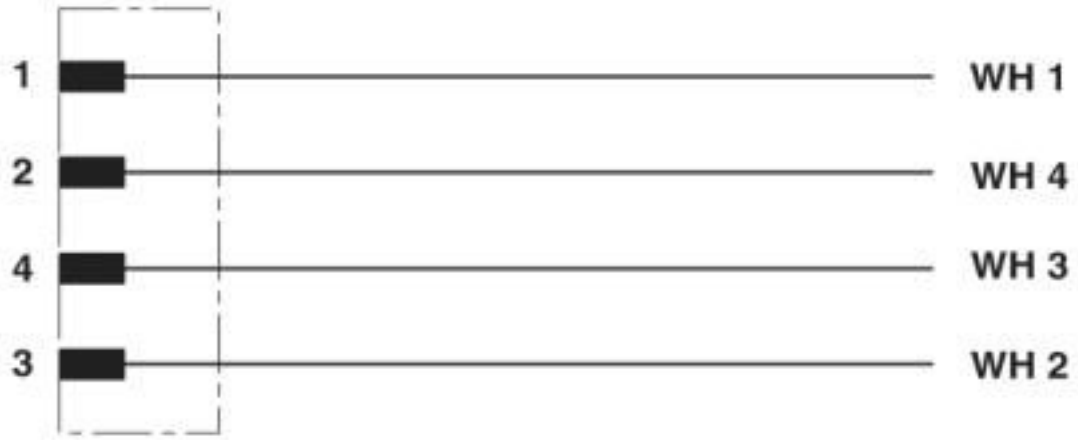
Dimensional drawing



M12 SPEEDCON plug, straight, shielded

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

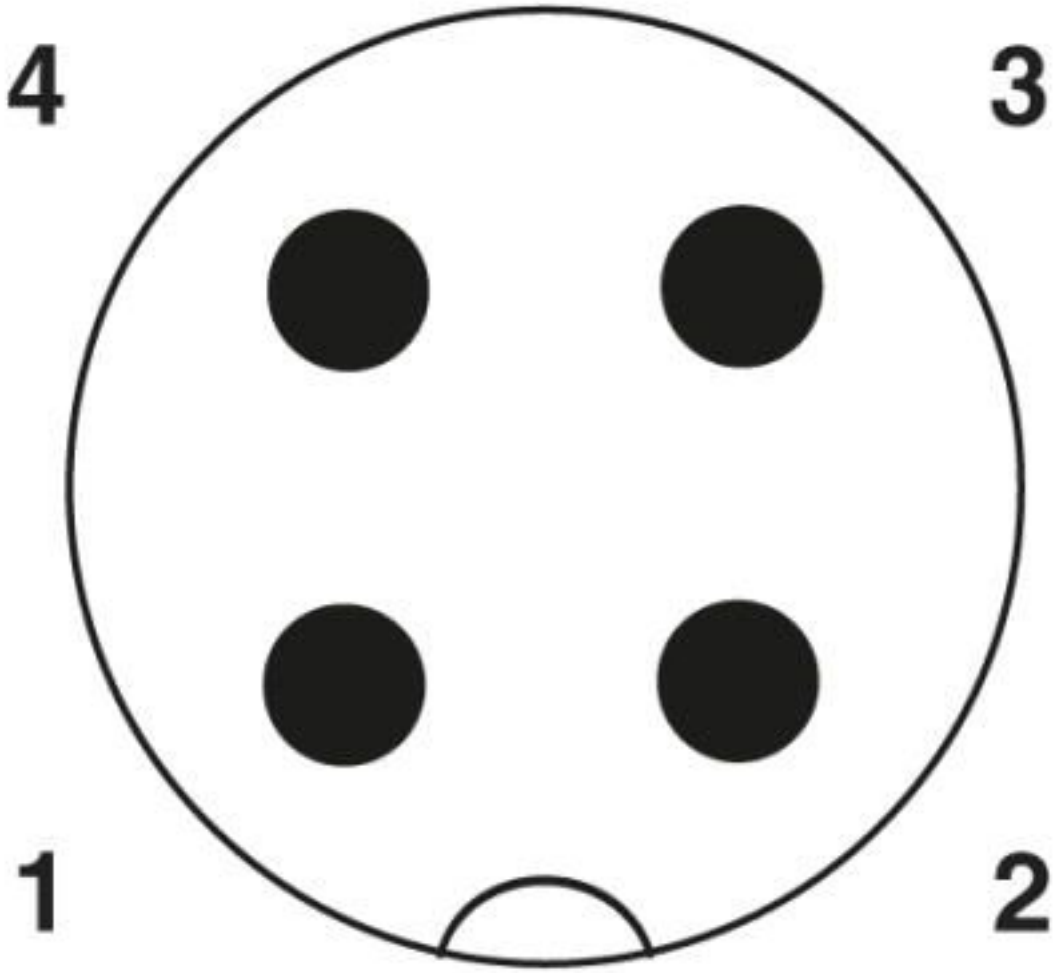
Circuit diagram



Contact assignment of the M12 plug

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

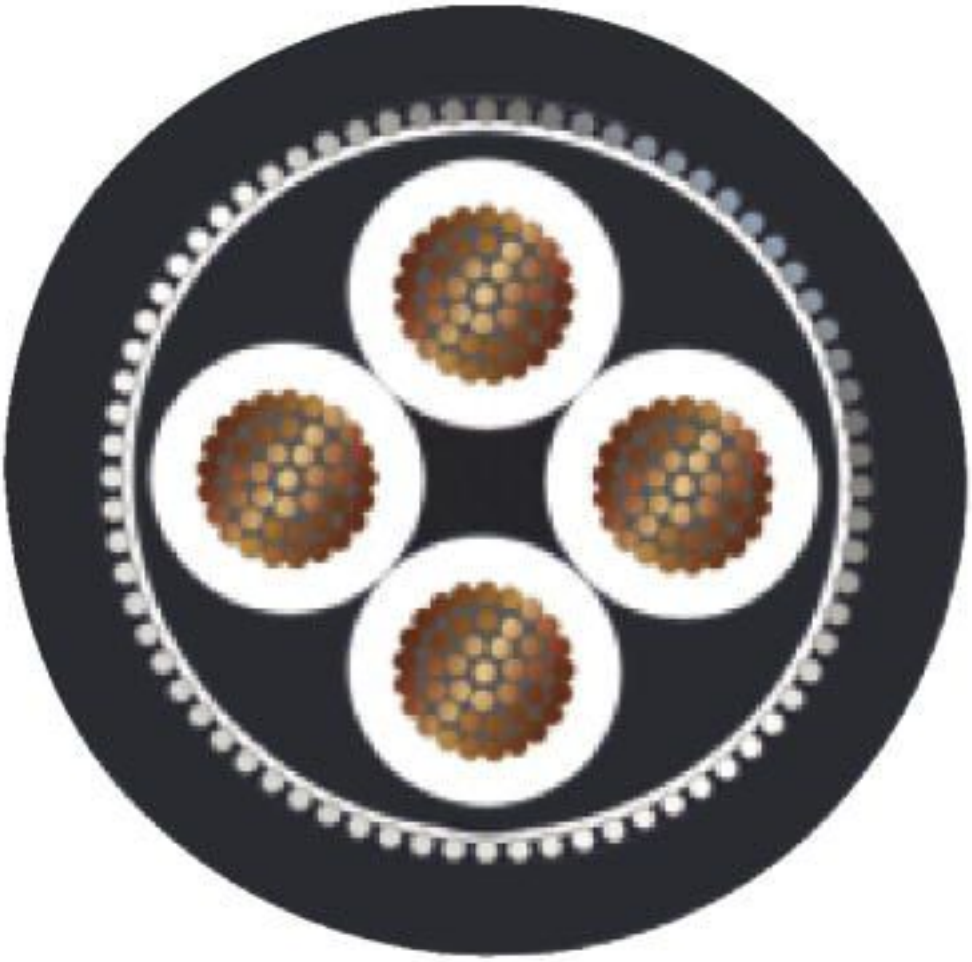
Schematic diagram



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

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Cable cross section



Shielded black RADOX® [28R]

Classifications

eCl@ss

eCl@ss 10.0.1	27060311
eCl@ss 4.0	27060300
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

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Classifications

eCl@ss

eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	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

Accessories

Accessories

Circular connector (cable-side)

Connector - SACC-MS-4QO-0,75 SH SCO - 1413993

Connector, Universal, 4-position, halogen-free, shielded, Plug straight M12 SPEEDCON, Coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

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Connector - SACC-FS-4QO-0,75 SH SCO - 1413994

Connector, Universal, 4-position, halogen-free, shielded, Socket straight M12 SPEEDCON, Coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

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Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Connector - SACC-M12MS-4PL SH - 1424666

Connector, Universal, 4-position, shielded, Plug straight M12, Coding: A, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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Connector - SACC-M12MR-4PL SH - 1424667

Connector, Universal, 4-position, shielded, Plug angled M12, Coding: A, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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Connector - SACC-M12FS-4PL SH - 1424668

Connector, Universal, 4-position, shielded, Socket straight M12, Coding: A, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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Connector - SACC-M12FR-4PL SH - 1424669

Connector, Universal, 4-position, shielded, Socket angled M12, Coding: A, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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Connector - SACC-M12MS-5CT-CM SH - 1422850

Connector, Universal, 5-position, shielded, Plug straight M12, Coding: A, Crimp connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

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Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Connector - SACC-M12MR-5CT-CM SH - 1422851

Connector, Universal, 5-position, shielded, Plug angled M12, Coding: A, Crimp connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

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Connector - SACC-M12FS-5CT-CM SH - 1422852

Connector, Universal, 5-position, shielded, Socket straight M12, Coding: A, Crimp connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

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Connector - SACC-M12FR-5CT-CM SH - 1422853

Connector, Universal, 5-position, shielded, Socket angled M12, Coding: A, Crimp connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

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Connector - SACC-P12MS-5CT-CM SH - 1021815

Connector, Universal, 5-position, shielded, Plug straight M12 Push-Pull, Coding: A, Crimp connection, knurl material: PA 6.6, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

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Connector - SACC-P12MR-5CT-CM SH - 1021816

Connector, Universal, 5-position, shielded, Plug angled M12 Push-Pull, Coding: A, Crimp connection, knurl material: PA 6.6, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

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Conductor marking

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Cable marker - WMTB HF (40X12)R YE - 0830408

Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 40 x 12 mm, Number of individual labels: 1000

Cable marker - WMTB HF (55X15)R YE - 0830410

Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 55 x 15 mm, Number of individual labels: 1000

Cable marker - WMTB HF (55X25)R YE - 0830412

Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 55 x 25 mm, Number of individual labels: 500

Conductor marking - UCT-WMCO 5,4 (23X8) - 0832105

Conductor marking, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: clip on, cable diameter range: 4.7 ... 5.4 mm, lettering field size: 23 x 8 mm, Number of individual labels: 18

Conductor marking - UCT-WMCO 6,1 (23X8) - 0832106

Conductor marking, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: clip on, cable diameter range: 5.4 ... 6.1 mm, lettering field size: 23 x 8 mm, Number of individual labels: 18

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Conductor marking - UCT-WMCO 6,8 (23X8) - 0832107

Conductor marking, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: clip on, cable diameter range: 6.1 ... 6.8 mm, lettering field size: 23 x 8 mm, Number of individual labels: 15

Conductor marking - UCT-WMCO 7,5 (23X8) - 0832108

Conductor marking, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: clip on, cable diameter range: 6.8 ... 7.5 mm, lettering field size: 23 x 8 mm, Number of individual labels: 15

Cable marker - WMTB-AL (40X15) - 0830524

Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 40 x 15 mm

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Cable marker - WMTB-AL (60X15) - 0830525

Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 60 x 15 mm

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Cable marker - LS-WMTB-AL (40X15) - 0831501

Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 40 x 15 mm, Number of individual labels: 16

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Cable marker - LS-WMTB-AL (40X15) BK - 0831509

Cable marker, Aluminum label, black, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 40 x 15 mm, Number of individual labels: 16

Cable marker - LS-WMTB-AL (60X15) - 0831502

Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 60 x 15 mm, Number of individual labels: 16

Cable marker - LS-WMTB-AL (60X15) BK - 0831510

Cable marker, Aluminum label, black, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 60 x 15 mm, Number of individual labels: 16

Cable marker - LS-WMTB-AL (100X15) - 0831503

Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 100 x 15 mm, Number of individual labels: 8

Cable marker - LS-WMTB-AL (100X15) BK - 0831511

Cable marker, Aluminum label, black, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 100 x 15 mm, Number of individual labels: 8

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Cable marker - WMTB HF (40X12)R YE - 0830408

Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 40 x 12 mm, Number of individual labels: 1000

Cable marker - WMTB HF (55X15)R YE - 0830410

Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 55 x 15 mm, Number of individual labels: 1000

Cable marker - WMTB HF (55X25)R YE - 0830412

Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 55 x 25 mm, Number of individual labels: 500

Conductor marking - UCT-WMCO 5,4 (23X8) - 0832105

Conductor marking, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: clip on, cable diameter range: 4.7 ... 5.4 mm, lettering field size: 23 x 8 mm, Number of individual labels: 18

Conductor marking - UCT-WMCO 6,1 (23X8) - 0832106

Conductor marking, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: clip on, cable diameter range: 5.4 ... 6.1 mm, lettering field size: 23 x 8 mm, Number of individual labels: 18

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Conductor marking - UCT-WMCO 6,8 (23X8) - 0832107

Conductor marking, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: clip on, cable diameter range: 6.1 ... 6.8 mm, lettering field size: 23 x 8 mm, Number of individual labels: 15

Conductor marking - UCT-WMCO 7,5 (23X8) - 0832108

Conductor marking, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: clip on, cable diameter range: 6.8 ... 7.5 mm, lettering field size: 23 x 8 mm, Number of individual labels: 15

Cable marker - WMTB-AL (40X15) - 0830524

Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 40 x 15 mm

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Cable marker - WMTB-AL (60X15) - 0830525

Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 60 x 15 mm

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Cable marker - LS-WMTB-AL (40X15) - 0831501

Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 40 x 15 mm, Number of individual labels: 16

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Cable marker - LS-WMTB-AL (40X15) BK - 0831509

Cable marker, Aluminum label, black, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 40 x 15 mm, Number of individual labels: 16

Cable marker - LS-WMTB-AL (60X15) - 0831502

Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 60 x 15 mm, Number of individual labels: 16

Cable marker - LS-WMTB-AL (60X15) BK - 0831510

Cable marker, Aluminum label, black, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 60 x 15 mm, Number of individual labels: 16

Cable marker - LS-WMTB-AL (100X15) - 0831503

Cable marker, Aluminum label, aluminum color, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 100 x 15 mm, Number of individual labels: 8

Cable marker - LS-WMTB-AL (100X15) BK - 0831511

Cable marker, Aluminum label, black, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: Assembly with cable binders, cable diameter: > 4.6 mm, lettering field size: 100 x 15 mm, Number of individual labels: 8

Cutting tools

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Cable-cutting tool - CUTFOX 12 - 1212128

Cable cutter, for copper and aluminum up to 12 mm diameter (up to 35 mm²)

Diagonal cutter - CUTFOX-S VDE - 1212207

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

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Electronics pliers

Diagonal cutter - MICROFOX-SP-1 - 1212487

Electronic diagonal cutter, tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version

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Marker carrier cable

Conductor marker carrier - PATG HF 3/18 - 1014059

Conductor marker carrier, transparent/black, unlabeled, mounting type: slide-on, cable diameter range: 4 ... 7 mm, lettering field size: 18 x 4 mm

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Conductor marker carrier - PATG HF 3/23 - 1014060

Conductor marker carrier, transparent/black, unlabeled, mounting type: slide-on, cable diameter range: 4 ... 7 mm, lettering field size: 23 x 4 mm

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Conductor marker carrier - PATG HF 3/30 - 1014061

Conductor marker carrier, transparent/black, unlabeled, mounting type: slide-on, cable diameter range: 4 ... 7 mm, lettering field size: 30 x 4 mm

Conductor marker carrier - PATG HF 4/18 - 1014065

Conductor marker carrier, transparent/black, unlabeled, mounting type: slide-on, cable diameter range: 5 ... 10 mm, lettering field size: 18 x 4 mm

Conductor marker carrier - PATG HF 4/23 - 1014066

Conductor marker carrier, transparent/black, unlabeled, mounting type: slide-on, cable diameter range: 5 ... 10 mm, lettering field size: 23 x 4 mm

Conductor marker carrier - PATG HF 4/30 - 1014067

Conductor marker carrier, transparent/black, unlabeled, mounting type: slide-on, cable diameter range: 5 ... 10 mm, lettering field size: 30 x 4 mm

Cable marker carrier - KMK HP (25X6) - 0830720

Cable marker carrier, transparent, unlabeled, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 25 mm x 6 mm

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Cable marker carrier - KMK HP (29X8) - 0830721

Cable marker carrier, transparent, unlabeled, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 29 x 8 mm

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Cable marker carrier - KMK HP (25X6) - 0830720

Cable marker carrier, transparent, unlabeled, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 25 mm x 6 mm

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Cable marker carrier - KMK HP (29X8) - 0830721

Cable marker carrier, transparent, unlabeled, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 29 x 8 mm

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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

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Marker pen - B-STIFT - 1051993

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

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Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

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

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Safety locking

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

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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

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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

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Sensor/actuator cable

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Sensor/actuator cable - SAC-4P-MS SCO RAIL/.../... - 1412169

Sensor/actuator cable, 4-position, Variable cable type, shielded, Plug straight M12 SPEEDCON, coding: A, on free cable end, cable length: Free input (0.2 ... 40.0 m), For railway applications

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Sensor/actuator cable - SAC-4P-MR SCO RAIL/.../... - 1412170

Sensor/actuator cable, 4-position, Variable cable type, shielded, Plug angled M12 SPEEDCON, coding: A, on free cable end, cable length: Free input (0.2 ... 40.0 m), For railway applications

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Sensor/actuator cable - SAC-4P-FS SCO RAIL/.../... - 1412167

Sensor/actuator cable, 4-position, Variable cable type, shielded, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: Free input (0.2 ... 40.0 m), For railway applications

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Sensor/actuator cable - SAC-4P-FR SCO RAIL/.../... - 1412168

Sensor/actuator cable, 4-position, Variable cable type, shielded, free cable end, on Socket angled M12 SPEEDCON, coding: A, cable length: Free input (0.2 ... 40.0 m), For railway applications

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Sensor/actuator cable - SAC-4P-MS-FS SCO RAIL/.../... - 1412171

Sensor/actuator cable, 4-position, Variable cable type, shielded, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: Free input (0.2 ... 40.0 m), For railway applications

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Shrink sleeve

Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Shrink sleeve - WMS-2 HF 6,4 (60X10)RL YE - 0801025

Shrink sleeve, Roll, yellow, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL: without print, Cut, mounting type: slide-on, cable diameter range: 3.2 ... 6.4 mm, lettering field size: 60 x 10 mm, Number of individual labels: 1000

Shrink sleeve - WMS-2 HF 6,4 (EX10)RL YE - 0833244

Shrink sleeve, Roll, yellow, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK W: without print, Cut, mounting type: slide-on, cable diameter range: 3.2 ... 6.4 mm, lettering field size: 10 x 100000 mm

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Shrink sleeve - WMS-2 HF 9,5 (60X16)RL YE - 0801029

Shrink sleeve, Roll, yellow, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL: without print, Cut, mounting type: slide-on, cable diameter range: 4.8 ... 9.5 mm, lettering field size: 60 x 16 mm, Number of individual labels: 500

Shrink sleeve - WMS-2 HF 9,5 (EX16)RL YE - 0833245

Shrink sleeve, Roll, yellow, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK W: without print, Cut, mounting type: slide-on, cable diameter range: 4.8 ... 9.5 mm, lettering field size: continuous x 16#mm

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Stripping tool

Stripping tool - WIREFOX 4 - 1212156

Stripping tool, for cables and conductors (especially for rubber and silicone insulations) from 0.1 - 4 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

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Sensor/actuator cable - SAC-4P-MS/10,0-28R SCO RAIL - 1407313

Accessories

Stripping tool - WIREFOX-E 4 - 1212704

Stripping tool, for cables and conductors (especially for rubber and silicone insulations) from 0.1 - 4 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

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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

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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

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

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

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