

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

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Sensor/actuator cable, 5-position, PE-X halogen-free, black, shielded, free cable end, on Socket straight M12 SPEEDCON, A-coded, cable length: 2 m, For railway applications

Why buy this product

- ✓ 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



Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 774475
GTIN	4046356774475
Weight per Piece (excluding packing)	163.600 g
Custom tariff number	85444290
Country of origin	Poland

Technical data

Dimensions

Length of cable	2 m
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Ambient conditions

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

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

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	5
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
Sealing material	NBR
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

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

Cable

Cable type	Shielded black RADOX®
Cable type (abbreviation)	28R

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Technical data

Cable

Conductor cross section	5x 0.5 mm ²
AWG signal line	20
Conductor structure signal line	19x 0.18 mm
Core diameter including insulation	1.43 mm
Wire colors	White 1, white 2, white 3, white 4, white 5
Overall twist	5 cores, twisted
Shielding	Tinned copper braided shield
External sheath, color	black
External cable diameter D	6.2 mm ±0,3 mm
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	4 x D
Cable weight	70 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 60332-3-25
	NF C32-070, 2.1
	NF C32-070, 2.2

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Technical data

Cable

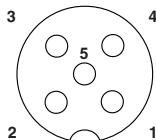
	UL 1685, 12 (FT4)
	in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)
Halogen-free	According to EN 50267-2-1
Resistance to oil	according to IRM 902, 72 h at 100 °C
Other resistance	Resistance to fuels according to IRM 903, 168 h at 70 °C
Concentration of fumes	BS 6853 D.8.7
	EN 61034-2
	UL 1685, 12 (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 = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

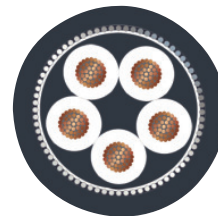
Drawings

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

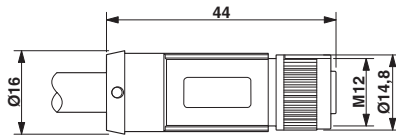
Cable cross section



Shielded black RADOX® [28R]

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Dimensional drawing



Circuit diagram



Socket M12-SPEEDCON, straight, shielded

Contact assignment of 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
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

UNSPSC

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

Accessories

Accessories

Circular connector (cable-side)

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

Sensor/actuator connector - SACC-MS-5QO-0,75 SH SCO - 1413991



Sensor/actuator connector, 5-position, halogen-free, shielded, Plug straight M12 SPEEDCON, A-coded, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

Sensor/actuator connector - SACC-FS-5QO-0,75 SH SCO - 1413992



Sensor/actuator connector, 5-position, halogen-free, shielded, Socket straight M12 SPEEDCON, A-coded, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

Connector - SACC-M12MS-5PL SH - 1424658



Connector, 5-position, shielded, Plug straight M12, A-coded, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Connector - SACC-M12MR-5PL SH - 1424659



Connector, 5-position, shielded, Plug angled M12, A-coded, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Connector - SACC-M12FS-5PL SH - 1424660



Connector, 5-position, shielded, Socket straight M12, A-coded, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

Connector - SACC-M12FR-5PL SH - 1424661



Connector, 5-position, shielded, Socket angled M12, A-coded, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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



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

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



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

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



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

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



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

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

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



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

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



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

Conductor marking

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



Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 40 x 12 mm

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



Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 55 x 15 mm

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



Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: Assembly with cable binders, cable diameter: ≥ 6 mm, lettering field size: 55 x 25 mm

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

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



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

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



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

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



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

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



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

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



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

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

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



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

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



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

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



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

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



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

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



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

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

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

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



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

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



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

Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: Assembly with cable binders, cable diameter: \geq 6 mm, lettering field size: 40 x 12 mm



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

Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: Assembly with cable binders, cable diameter: \geq 6 mm, lettering field size: 55 x 15 mm



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

Cable marker, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: Assembly with cable binders, cable diameter: \geq 6 mm, lettering field size: 55 x 25 mm



Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

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



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

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



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

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



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

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



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

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



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

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

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



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

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



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

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



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

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



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

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



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

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

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



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

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



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

Cutting tools

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

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

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

Marker carrier cable

Conductor marker carrier - PATG HF 3/18 - 1014059



Wire marker carrier, transparent/black, unmarked, mounting type: slid on, cable diameter: 4 - 7 mm, lettering field size: 4 x 18 mm

Conductor marker carrier - PATG HF 3/23 - 1014060



Wire marker carrier, transparent/black, unmarked, mounting type: slid on, cable diameter: 4 - 7 mm, lettering field size: 4 x 23 mm

Conductor marker carrier - PATG HF 3/30 - 1014061



Wire marker carrier, transparent/black, unmarked, mounting type: slid on, cable diameter: 4 - 7 mm, lettering field size: 4 x 30 mm

Conductor marker carrier - PATG HF 4/18 - 1014065



Wire marker carrier, transparent/black, unmarked, mounting type: slid on, cable diameter: 5 - 10 mm, lettering field size: 4 x 18 mm

Conductor marker carrier - PATG HF 4/23 - 1014066



Wire marker carrier, transparent/black, unmarked, mounting type: slid on, cable diameter: 5 - 10 mm, lettering field size: 4 x 23 mm

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

Conductor marker carrier - PATG HF 4/30 - 1014067



Wire marker carrier, transparent/black, unmarked, mounting type: slid on, cable diameter: 5 - 10 mm, lettering field size: 4 x 30 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

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

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

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

Marker pen

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

Marker pen - B-STIFT - 1051993



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

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

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

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

Sensor/actuator cable

Sensor/actuator cable - SAC-5P-MS SCO RAIL/.../... - 1412174



Sensor/actuator cable, 5-position, Variable cable type, shielded, Plug straight M12 SPEEDCON, A-coded, on free cable end, cable length: Free input (0.2 ... 40.0 m), For railway applications

Sensor/actuator cable - SAC-5P-MR SCO RAIL/.../... - 1412175



Sensor/actuator cable, 5-position, Variable cable type, shielded, Plug angled M12 SPEEDCON, A-coded, on free cable end, cable length: Free input (0.2 ... 40.0 m), For railway applications

Sensor/actuator cable - SAC-5P-FS SCO RAIL/.../... - 1412172



Sensor/actuator cable, 5-position, Variable cable type, shielded, free cable end, on Socket straight M12 SPEEDCON, A-coded, cable length: Free input (0.2 ... 40.0 m), For railway applications

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

Sensor/actuator cable - SAC-5P-FR SCO RAIL/.../... - 1412173



Sensor/actuator cable, 5-position, Variable cable type, shielded, free cable end, on Socket angled M12 SPEEDCON, A-coded, cable length: Free input (0.2 ... 40.0 m), For railway applications

Sensor/actuator cable - SAC-5P-MS-FS SCO RAIL/.../... - 1412176



Sensor/actuator cable, 5-position, Variable cable type, shielded, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, cable length: Free input (0.2 ... 40.0 m), For railway applications

Shrink sleeve

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



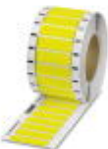
Shrink sleeve, roll, yellow, unmarked, 2:1 shrink ratio, can be marked with: THERMOMARK ROLL, THERMOMARK X.1, perforated, mounting type: slid on

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



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

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



Shrink sleeve, roll, yellow, unmarked, 2:1 shrink ratio, can be marked with: THERMOMARK ROLL, THERMOMARK X.1, perforated, mounting type: slid on

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

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



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

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

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

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

Sensor/actuator cable - SAC-5P- 2,0-28R/FS SCO RAIL - 1407331

Accessories

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



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