SAC-4P-MS/ 2,0-28R SCO RAIL - Sensor/actuator cable

1407311

https://www.phoenixcontact.com/us/products/1407311

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Sensor/actuator cable, 4-position, PE-X halogen-free, black RAL 9005, shielded, Plug straight M12 SPEEDCON, coding: A, on free cable end, cable length: 2 m, For railway applications

Your advantages

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

Commercial data

Item number	1407311
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	BF1CCA
Catalog page	Page 131 (C-4-2013)
GTIN	4046356774277
Weight per piece (including packing)	127.6 g
Weight per piece (excluding packing)	127.6 g
Customs tariff number	85444290
Country of origin	PL

Technical data

Notes

General	Further products with variable cable type and variable cable length can be found in the accessories section

Product properties

Product type	Sensor/actuator cable
Application	Railway applications
Number of positions	4
No. of cable outlets	1
Shielded	yes
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	V0
Material of grip body	PA 6.6
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Signaling

Status display	No
Status display present	No

Connection data

Conductor connection

Tightening torque	0.4 Nm (M12 connector)

Connector

Connection 1

Type	Plug straight M12 SPEEDCON
Number of positions	4
Locking type	SPEEDCON
Coding type	A

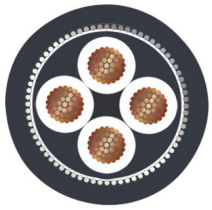
Connection 2

Type	free cable end

Cable/line

Cable length	2 m

Shielded black RADOX® [28R]

Dimensional drawing	
Cable weight	56 kg/km
Number of positions	4
Shielded	yes
Cable type	Shielded black RADOX® [28R]
Conductor structure signal line	19x 0.18 mm
AWG signal line	20
Conductor cross section	4x 0.5 mm²
Wire diameter incl. insulation	1.43 mm
External cable diameter	5.40 mm ±0.3 mm
Outer sheath, material	PE-X
External sheath, color	black RAL 9005
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PE-X
Single wire, color	white 1, white 2, white 3, white 4
Overall twist	4 wires, twisted
Optical shield covering	85 %
Max. 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 (Line-line)
Test voltage	3500 V AC (50 Hz, 5 min.)
	8400 V DC (50 Hz, 5 min.)
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	4 x D
Smallest bending radius, fixed installation	17 mm
Smallest bending radius, movable installation	22 mm
Halogen-free	in accordance with EN 50267-2-1
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)
Fume corrosiveness	EN 50267-2-2
Fume toxicity	BS 6853 B.1
	EN 50305, 9.2
Concentration of fumes	BS 6853 D.8.7
	EN 61034-2
	UL 1685, 12 (FT4)
Resistance to oil	according to IRM 902, 72 h at 100 °C
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)
Other resistance	Resistance to fuels (according to IRM 903, 168 h at 70 °C)
Ambient temperature (operation)	-50 °C ... 120 °C (cable, fixed installation)
	-25 °C ... 90 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

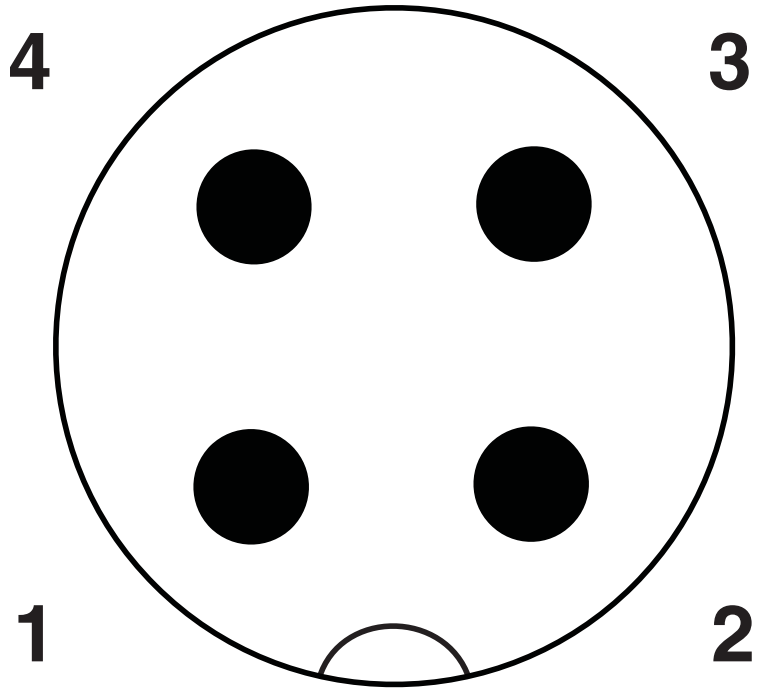
M12

Standard designation	M12 connector

Standards/specifications	IEC 61076-2-101
Standard designation	Shock, vibration
Standards/specifications	EN 50155

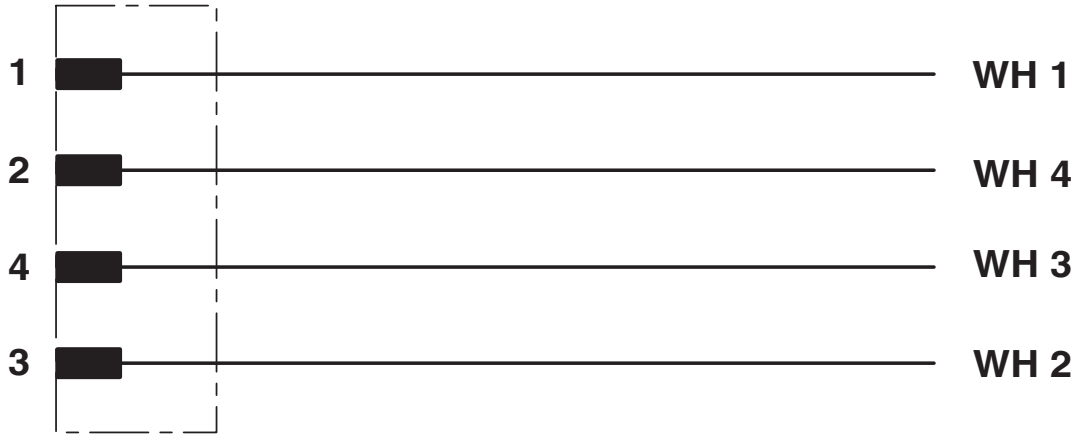
Drawings

Schematic diagram

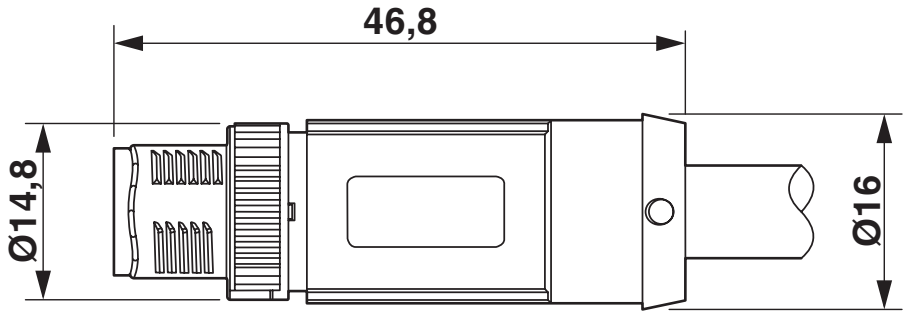


Pin assignment M12 plug, 4-pos., A-coded, view plug side

Circuit diagram



Dimensional drawing



M12 SPEEDCON plug, straight, shielded

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1407311

EAC-RoHS
Approval ID: RU D-DE.HB35.B.00387

Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

ETIM

ETIM 9.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	6e5c714f-4156-4e46-950d-f91875a6b332

Accessories

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

1412169

https://www.phoenixcontact.com/us/products/1412169



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

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

1412167

https://www.phoenixcontact.com/us/products/1412167



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

1412168

https://www.phoenixcontact.com/us/products/1412168



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

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

1412171

https://www.phoenixcontact.com/us/products/1412171



Sensor/actuator cable, 4-position, 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

PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

https://www.phoenixcontact.com/us/products/1430873



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

SAC-M12-EXCLIP-M - Locking clip

1558988

https://www.phoenixcontact.com/us/products/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

PATG HF 3/18 - Conductor marker carrier

1014059

https://www.phoenixcontact.com/us/products/1014059



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

PATG HF 3/23 - Conductor marker carrier

1014060

https://www.phoenixcontact.com/us/products/1014060



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

PATG HF 3/30 - Conductor marker carrier

1014061

https://www.phoenixcontact.com/us/products/1014061



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

PATG HF 4/18 - Conductor marker carrier

1014065

https://www.phoenixcontact.com/us/products/1014065



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

PATG HF 4/23 - Conductor marker carrier

1014066

https://www.phoenixcontact.com/us/products/1014066



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

PATG HF 4/30 - Conductor marker carrier

1014067

https://www.phoenixcontact.com/us/products/1014067



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

KMK HP (25X6) - Cable marker carrier

0830720

https://www.phoenixcontact.com/us/products/0830720



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

KMK HP (29X8) - Cable marker carrier

0830721

https://www.phoenixcontact.com/us/products/0830721



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

WMTB HF (40X12)R YE - Cable marker

0830408

https://www.phoenixcontact.com/us/products/0830408



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

WMTB HF (55X15)R YE - Cable marker

0830410

https://www.phoenixcontact.com/us/products/0830410



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

WMTB HF (55X25)R YE - Cable marker

0830412

https://www.phoenixcontact.com/us/products/0830412



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

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

0801025

https://www.phoenixcontact.com/us/products/0801025



Shrink sleeve, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E. 300 (D)/600 (D), THERMOMARK ROLLMASTER 300/600, THERMOMARK ROLL X1, THERMOMARK ROLL, THERMOMARK ROLL 2.0, THERMOMARK W, THERMOMARK X1.2, unperforated, mounting type: slide-on, cable diameter range: 3.2 ... 6.4 mm, lettering field size: 60 x 10 mm, Number of individual labels: 1000

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

0833244

https://www.phoenixcontact.com/us/products/0833244



Shrink sleeve, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E. SLEEVE, THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLLMASTER 300/600, THERMOMARK ROLL X1, THERMOMARK ROLL, THERMOMARK ROLL 2.0, THERMOMARK W, THERMOMARK X1.2, unperforated, mounting type: slide-on, cable diameter range (automated processing): 3.2 ... 5 mm, cable diameter range: 3.2 ... 6.4 mm, lettering field size: 10 x 100000 mm, Number of individual labels: 1, roll length: 100 m

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

0801029

https://www.phoenixcontact.com/us/products/0801029



Shrink sleeve, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E. 300 (D)/600 (D), THERMOMARK ROLLMASTER 300/600, THERMOMARK ROLL X1, THERMOMARK ROLL, THERMOMARK ROLL 2.0, THERMOMARK W, THERMOMARK X1.2, unperforated, mounting type: slide-on, cable diameter range: 4.8 ... 9.5 mm, lettering field size: 60 x 16 mm, Number of individual labels: 500

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

0833245

https://www.phoenixcontact.com/us/products/0833245



Shrink sleeve, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E. SLEEVE, THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLLMASTER 300/600, THERMOMARK ROLL X1, THERMOMARK ROLL, THERMOMARK ROLL 2.0, THERMOMARK W, THERMOMARK X1.2, unperforated, mounting type: slide-on, cable diameter range (automated processing): 4.8 ... 8 mm, cable diameter range: 4.8 ... 9.5 mm, lettering field size: 16 x 80000 mm, Number of individual labels: 1, roll length: 80 m

UCT-WMCO 5,4 (23X8) - Wire marking

0832105

https://www.phoenixcontact.com/us/products/0832105



Wire 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

UCT-WMCO 6,1 (23X8) - Wire marking

0832106

https://www.phoenixcontact.com/us/products/0832106



Wire 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

UCT-WMCO 6,8 (23X8) - Wire marking

0832107

https://www.phoenixcontact.com/us/products/0832107



Wire 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

UCT-WMCO 7,5 (23X8) - Wire marking

0832108

https://www.phoenixcontact.com/us/products/0832108



Wire 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

WMTB-AL (40X15) - Cable marker

0830524

https://www.phoenixcontact.com/us/products/0830524



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

WMTB-AL (60X15) - Cable marker

0830525

https://www.phoenixcontact.com/us/products/0830525



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

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

0831501

https://www.phoenixcontact.com/us/products/0831501



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

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

0831509

https://www.phoenixcontact.com/us/products/0831509



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

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

0831502

https://www.phoenixcontact.com/us/products/0831502



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

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

0831510

https://www.phoenixcontact.com/us/products/0831510



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

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

0831503

https://www.phoenixcontact.com/us/products/0831503



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

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

0831511

https://www.phoenixcontact.com/us/products/0831511



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

SACC-M12MS-4QO-0,75 SH - Connector

1413993

https://www.phoenixcontact.com/us/products/1413993



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

SAC-4P-MS/ 2,0-28R SCO RAIL - Sensor/actuator cable

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https://www.phoenixcontact.com/us/products/1407311

SACC-M12FS-4QO-0,75 SH - Connector

1413994

https://www.phoenixcontact.com/us/products/1413994



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

SACC-M12MS-4PL SH - Connector

1424666

https://www.phoenixcontact.com/us/products/1424666



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

SACC-M12MR-4PL SH - Connector

1424667

https://www.phoenixcontact.com/us/products/1424667



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

SACC-M12FS-4PL SH - Connector

1424668

https://www.phoenixcontact.com/us/products/1424668



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

SAC-4P-MS/ 2,0-28R SCO RAIL - Sensor/actuator cable

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SACC-M12FR-4PL SH - Connector

1424669

https://www.phoenixcontact.com/us/products/1424669



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

SACC-M12MS-5CT-CM SH - Connector

1422850

https://www.phoenixcontact.com/us/products/1422850



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

SAC-4P-MS/ 2,0-28R SCO RAIL - Sensor/actuator cable

1407311

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SACC-M12MR-5CT-CM SH - Connector

1422851

https://www.phoenixcontact.com/us/products/1422851



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

SACC-M12FS-5CT-CM SH - Connector

1422852

https://www.phoenixcontact.com/us/products/1422852



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

SAC-4P-MS/ 2,0-28R SCO RAIL - Sensor/actuator cable

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SACC-M12FR-5CT-CM SH - Connector

1422853

https://www.phoenixcontact.com/us/products/1422853



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

SACC-PO12MS-5CT-CM SH - Connector

1021815

https://www.phoenixcontact.com/us/products/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

SAC-4P-MS/ 2,0-28R SCO RAIL - Sensor/actuator cable

1407311

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SACC-PO12MR-5CT-CM SH - Connector

1021816

https://www.phoenixcontact.com/us/products/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

TSD 04 SAC - Torque screwdriver

1208429

https://www.phoenixcontact.com/us/products/1208429



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

SAC-4P-MS/ 2,0-28R SCO RAIL - Sensor/actuator cable

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https://www.phoenixcontact.com/us/products/1407311

TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/us/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/us/products/1212600



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

SAC-4P-MS/ 2,0-28R SCO RAIL - Sensor/actuator cable

1407311

https://www.phoenixcontact.com/us/products/1407311

SAC BIT M12-D15 - Tool

1208432

https://www.phoenixcontact.com/us/products/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

B-STIFT - Marker pen

1051993

https://www.phoenixcontact.com/us/products/1051993



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

CUTFOX 12 - Cable-cutting tool

1212128

https://www.phoenixcontact.com/us/products/1212128



Cable cutter, for copper and aluminum up to 12 mm diameter (up to 35 mm^2)

CUTFOX-S VDE - Diagonal cutter

1212207

https://www.phoenixcontact.com/us/products/1212207



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

SAC-4P-MS/ 2,0-28R SCO RAIL - Sensor/actuator cable

1407311

https://www.phoenixcontact.com/us/products/1407311

MICROFOX-SP-1 - Diagonal cutter

1212487

https://www.phoenixcontact.com/us/products/1212487



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

WIREFOX 4 - Stripping tool

1212156

https://www.phoenixcontact.com/us/products/1212156



Stripping tool, for cables and conductors (especially for rubber and silicone insulations) from 0.1 - 4 mm^2, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm^2 stranded/1.5 mm^2 solid, replaceable stripping blade

SAC-4P-MS/ 2,0-28R SCO RAIL - Sensor/actuator cable

1407311

https://www.phoenixcontact.com/us/products/1407311

WIREFOX-E 4 - Stripping tool

1212704

https://www.phoenixcontact.com/us/products/1212704



Stripping tool, for cables and conductors (especially for rubber and silicone insulations) from 0.1 - 4 mm^2, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm^2 stranded/1.5 mm^2 solid, replaceable stripping blade

WIREFOX 10 - Stripping tool

1212150

https://www.phoenixcontact.com/us/products/1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm^2, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm^2 stranded/1.5 mm^2 solid, replaceable stripping blade

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