

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



1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

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Sensor/actuator cable, 5-position, Variable cable type, shielded, free cable end, on Socket straight M12, coding: A SPEEDCON, cable length: Free input (0.2 ... 40.0 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	1412172/28R/3.0
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C1 - Sensor-Aktor-Kabel
Product key	BF1CKA
GTIN	4046356993708
Customs tariff number	85444290
Country of origin	PL

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



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## Technical data

### Notes

General	Further products with fixed cable length can be found in the accessories section
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### Product properties

Product type	Sensor/actuator cable
Number of positions	5
Application	Railway applications
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
Seal material	NBR
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

Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	48 V AC
	60 V DC
Nominal current $I_N$	4 A
Protective circuit	unwired

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	$\geq 100$
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### Signaling

Status display	No
Status display present	No

### Connection data

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## Conductor connection

Tightening torque	0.4 Nm (M12 connector)
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## Connector

### Connection 1

Type	free cable end
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### Connection 2

Type	Socket straight M12 SPEEDCON
Number of positions	5
Coding type	A
Number of positions	5
Locking type	SPEEDCON

## Cable/line

Cable length	Free input (0.2 ... 40.0 m)
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### Shielded black RADOX® [28R]

Dimensional drawing	
Shielded	yes
Cable weight	70 kg/km
Cable type	Shielded black RADOX®
Cable type (abbreviation)	28R
External cable diameter	6.2 mm ±0.3 mm
Outer sheath, material	PE-X
External sheath, color	black
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	19x 0.18 mm
AWG signal line	20
Conductor cross section	5x 0.5 mm²
Material wire insulation	PE-X
Wire diameter incl. insulation	1.43 mm
Single wire, color	white 1, white 2, white 3, white 4, white 5
Overall twist	5 cores, twisted
Shielding	Tinned copper braided shield
Nominal voltage, cable	600 V AC (Core-ground, U <sub>0</sub> ) 1000 V AC (Core-ground, U)

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	<ul style="list-style-type: none"> <li>≤ 720 V AC (core-ground)</li> <li>≤ 1200 V AC (Core-ground, U<sub>m</sub>)</li> <li>≤ 900 V DC (Core-ground, V<sub>0</sub>)</li> <li>≤ 1500 V DC (Line-line)</li> </ul>
Test voltage, cable	<ul style="list-style-type: none"> <li>3500 V AC (50 Hz, 5 min.)</li> <li>8400 V DC (50 Hz, 5 min.)</li> </ul>
Cable resistance	≤ 40.1 Ω/km
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	4 x D
Fire protection in rail vehicles	<ul style="list-style-type: none"> <li>BS 6853 (Category Ia, Ib, II)</li> <li>GM/RT 2130 (Category Ia, Ib, II)</li> <li>EN 45545 (Risk level HL1 - HL3)</li> <li>DIN 5510 (Fire protection level 1, 2, 3, 4)</li> <li>NF F16-101 (Category A1, A2, B)</li> <li>NF F16-101 (Class C/F0)</li> <li>NFPA 130</li> <li>UNI CEI 11170 (Risk level LR1 - LR4)</li> </ul>
Halogen-free	in accordance with EN 50267-2-1
Resistance to oil	according to IRM 902, 72 h at 100 °C
Concentration of fumes	<ul style="list-style-type: none"> <li>BS 6853 D.8.7</li> <li>EN 61034-2</li> <li>UL 1685, 12 (FT4)</li> </ul>
Fume toxicity	<ul style="list-style-type: none"> <li>BS 6853 B.1</li> <li>EN 50305, 9.2</li> </ul>
Fume corrosiveness	EN 50267-2-2
Flame resistance	<ul style="list-style-type: none"> <li>EN 60332-1-2</li> <li>EN 50266</li> <li>EN 60332-3-25</li> <li>NF C32-070, 2.1</li> <li>NF C32-070, 2.2</li> <li>UL 1685, 12 (FT4)</li> <li>in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)</li> </ul>
Other resistance	Resistance to fuels according to IRM 903, 168 h at 70 °C
Ambient temperature (operation)	<ul style="list-style-type: none"> <li>-25 °C ... 90 °C (Cable, flexible installation)</li> <li>-50 °C ... 120 °C (cable, fixed installation)</li> </ul>

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

M12

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Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standard designation	Shock, vibration
Standards/specifications	EN 50155

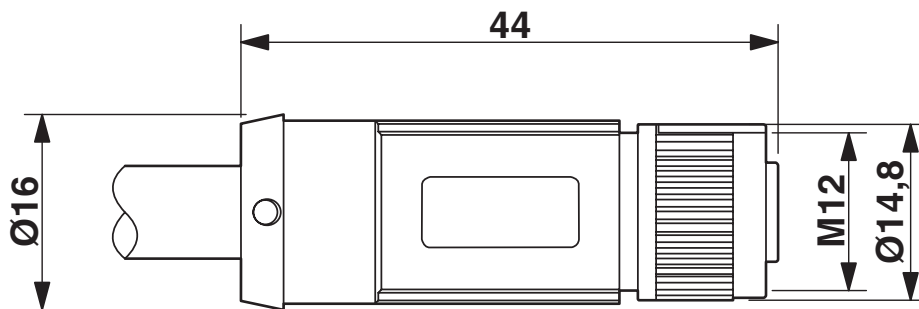
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## Drawings

Dimensional drawing



Socket M12-SPEEDCON, straight, shielded

Circuit diagram

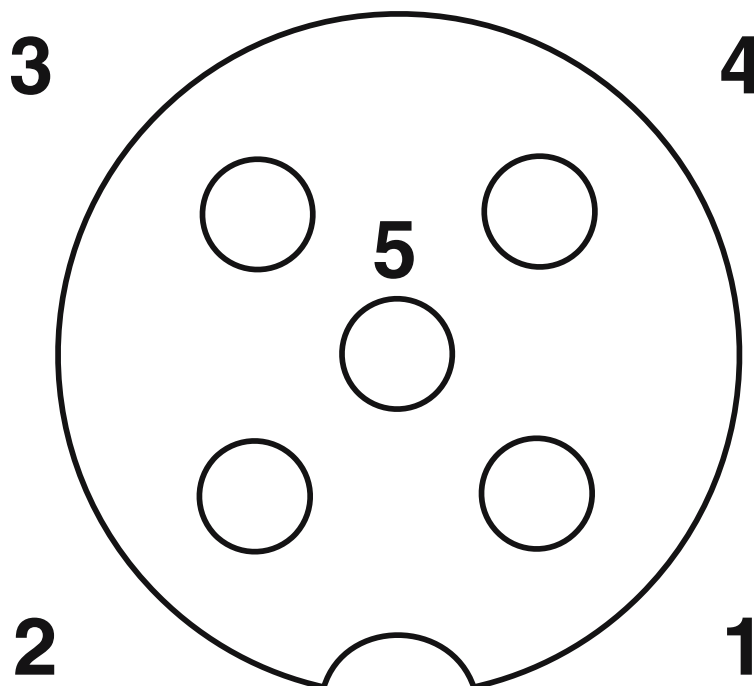


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Schematic diagram



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

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>



**EAC-RoHS**

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



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## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC001855
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

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

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## Accessories

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

1407331

<https://www.phoenixcontact.com/de/produkte/1407331>



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

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

1407332

<https://www.phoenixcontact.com/de/produkte/1407332>



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

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

1412172/28R/3.0

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## SAC-5P-10,0-28R/FS SCO RAIL - Sensor/actuator cable

1407333

<https://www.phoenixcontact.com/de/produkte/1407333>



Sensor/actuator cable, 5-position halogen-free, shielded, free cable end, on Socket straight M12, coding: A SPEEDCON, cable length: 10 m, For railway applications

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

1430899

<https://www.phoenixcontact.com/de/produkte/1430899>

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



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## SAC-M12-EXCLIP-F - Locking clip

1558991

<https://www.phoenixcontact.com/de/produkte/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

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## PATG HF 3/18 - Conductor marker carrier

1014059

<https://www.phoenixcontact.com/de/produkte/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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<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

## PATG HF 3/23 - Conductor marker carrier

1014060

<https://www.phoenixcontact.com/de/produkte/1014060>



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

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## PATG HF 3/30 - Conductor marker carrier

1014061

<https://www.phoenixcontact.com/de/produkte/1014061>



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

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

1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

## PATG HF 4/18 - Conductor marker carrier

1014065

<https://www.phoenixcontact.com/de/produkte/1014065>



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

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## PATG HF 4/23 - Conductor marker carrier

1014066

<https://www.phoenixcontact.com/de/produkte/1014066>



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

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## PATG HF 4/30 - Conductor marker carrier

1014067

<https://www.phoenixcontact.com/de/produkte/1014067>



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

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

0830720

<https://www.phoenixcontact.com/de/produkte/0830720>



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



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

0830721

<https://www.phoenixcontact.com/de/produkte/0830721>

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



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

0830408

<https://www.phoenixcontact.com/de/produkte/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:  $\geq 6$  mm, lettering field size: 40 x 12 mm, Number of individual labels: 1000



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<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

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

0830410

<https://www.phoenixcontact.com/de/produkte/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:  $\geq 6$  mm, lettering field size: 55 x 15 mm, Number of individual labels: 1000

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

0830412

<https://www.phoenixcontact.com/de/produkte/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:  $\geq 6$  mm, lettering field size: 55 x 25 mm, Number of individual labels: 500

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

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

0801025

<https://www.phoenixcontact.com/de/produkte/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

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

0833244

<https://www.phoenixcontact.com/de/produkte/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, roll length: 100 m

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

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

0801029

<https://www.phoenixcontact.com/de/produkte/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/de/produkte/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, roll length: 80 m

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

0832105

<https://www.phoenixcontact.com/de/produkte/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

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

0832106

<https://www.phoenixcontact.com/de/produkte/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

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



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

0832107

<https://www.phoenixcontact.com/de/produkte/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

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

0832108

<https://www.phoenixcontact.com/de/produkte/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

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

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

0830524

<https://www.phoenixcontact.com/de/produkte/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

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

0830525

<https://www.phoenixcontact.com/de/produkte/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

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

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

0831501

<https://www.phoenixcontact.com/de/produkte/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



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

0831509

<https://www.phoenixcontact.com/de/produkte/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





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



1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

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

0831502

<https://www.phoenixcontact.com/de/produkte/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



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

0831510

<https://www.phoenixcontact.com/de/produkte/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



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

0831503

<https://www.phoenixcontact.com/de/produkte/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/de/produkte/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



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

1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

## SACC-M12MS-5QO-0,75 SH - Connector

1413991

<https://www.phoenixcontact.com/de/produkte/1413991>



Connector, Universal, 5-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

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## SACC-M12FS-5QO-0,75 SH - Connector

1413992

<https://www.phoenixcontact.com/de/produkte/1413992>



Connector, Universal, 5-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

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



1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

## SACC-M12MS-5PL SH - Connector

1424658

<https://www.phoenixcontact.com/de/produkte/1424658>



Connector, Universal, 5-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

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## SACC-M12MR-5PL SH - Connector

1424659

<https://www.phoenixcontact.com/de/produkte/1424659>



Connector, Universal, 5-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

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



1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

## SACC-M12FS-5PL SH - Connector

1424660

<https://www.phoenixcontact.com/de/produkte/1424660>



Connector, Universal, 5-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

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## SACC-M12FR-5PL SH - Connector

1424661

<https://www.phoenixcontact.com/de/produkte/1424661>



Connector, Universal, 5-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

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



1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

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

1422850

<https://www.phoenixcontact.com/de/produkte/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

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

1422851

<https://www.phoenixcontact.com/de/produkte/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

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

1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

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

1422852

<https://www.phoenixcontact.com/de/produkte/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

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

1422853

<https://www.phoenixcontact.com/de/produkte/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

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



1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

## SACC-PO12MS-5CT-CM SH - Connector

1021815

<https://www.phoenixcontact.com/de/produkte/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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## SACC-PO12MR-5CT-CM SH - Connector

1021816

<https://www.phoenixcontact.com/de/produkte/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



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

1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

## TSD 04 SAC - Torque screwdriver

1208429

<https://www.phoenixcontact.com/de/produkte/1208429>



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

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

1212224

<https://www.phoenixcontact.com/de/produkte/1212224>



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

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



1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

## TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/de/produkte/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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## SAC BIT M12-D15 - Tool

1208432

<https://www.phoenixcontact.com/de/produkte/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

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



1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

## B-STIFT - Marker pen

1051993

<https://www.phoenixcontact.com/de/produkte/1051993>



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

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## CUTFOX 12 - Cable-cutting tool

1212128

<https://www.phoenixcontact.com/de/produkte/1212128>



Cable cutter, for copper and aluminum up to 12 mm diameter (up to 35 mm<sup>2</sup>)

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



1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

## CUTFOX-S VDE - Diagonal cutter

1212207

<https://www.phoenixcontact.com/de/produkte/1212207>



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

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## MICROFOX-SP-1 - Diagonal cutter

1212487

<https://www.phoenixcontact.com/de/produkte/1212487>



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

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

1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

## WIREFOX 4 - Stripping tool

1212156

<https://www.phoenixcontact.com/de/produkte/1212156>



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

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## WIREFOX-E 4 - Stripping tool

1212704

<https://www.phoenixcontact.com/de/produkte/1212704>



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

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



1412172/28R/3.0

<https://www.phoenixcontact.com/de/produkte/1412172?orderkey=MTQxMjE3Mi8yOFIvMy4w>

## WIREFOX 10 - Stripping tool

1212150

<https://www.phoenixcontact.com/de/produkte/1212150>



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

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