

Sensor/Actuator cable - SAC-4P-MR/ 2,0-28R SCO RAIL - 1407314

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Sensor/Actuator cable, 4-position, PE-X halogen-free, black, shielded, Plug angled M12 SPEEDCON, A-coded, on free cable end, 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 774307
Weight per Piece (excluding packing)	125.0 g
Weight per piece (including packing)	125.0 g
Country of origin	Poland
Note	Made to Order (non-returnable)

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

General

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	4

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Technical data

General

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

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
Conductor cross section	4x 0.5 mm²
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
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

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Technical data

Cable

Cable weight	56 kg/km
Outer sheath, material	PE-X
Material conductor insulation	PE-X
Conductor material	Tin-plated Cu litz wires
Conductor resistance	$\leq 40.1 \text{ } \Omega/\text{km}$
Nominal voltage, cable	600 V AC (Core-ground, U_0)
	1000 V AC (Core-ground, U)
	$\leq 720 \text{ V AC (core-ground)}$
	$\leq 1200 \text{ V AC (Core-ground, } U_m)$
	$\leq 900 \text{ V DC (Core-ground, } V_0)$
	$\leq 1500 \text{ V DC (core-core)}$
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
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)

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Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

ETIM

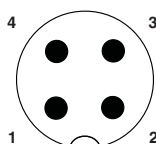
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

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

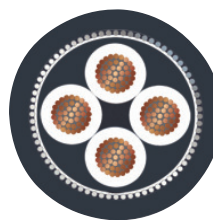
Drawings

Schematic diagram



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

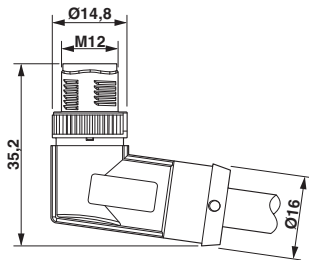
Cable cross section



Shielded black RADOX® [28R]

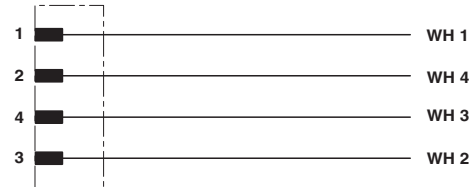
Sensor/Actuator cable - SAC-4P-MR/ 2,0-28R SCO RAIL - 1407314

Dimensional drawing



Plug M12 SPEEDCON, angled, shielded

Circuit diagram



Contact assignment of the M12 plug

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