

SAC-6P-M12FS/ 7,0-970/RJ45Q - Bus system cable



1576520

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Bus system cable, VARAN, 6-pos., black halogen-free TPE, shielded, straight M12 SPEEDCON plug to RJ45 plug-in plug (IP20), cable length: 7 m

Commercial data

Item number	1576520
Packing unit	1 pc
Minimum order quantity	25 pc
Product key	AF1CMM
GTIN	4046356520836
Weight per piece (including packing)	580.3 g
Weight per piece (excluding packing)	580.3 g
Country of origin	PL

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Technical data

Product properties

Product type	Data cable preassembled
Number of positions	6
Coding	A

Insulation characteristics

Overvoltage category	I
Degree of pollution	1

Interfaces

Bus system	VARAN
Signal type/category	VARAN

Signaling

Status display	no
Status display present	no

Electrical properties

Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	2 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Material specifications

Color	traffic gray A RAL 7042
Flammability rating according to UL 94	V0

Connector

Connection 1

Type	Socket straight M12
Coding type	A (Standard)
Material	CuZn (Contact)
	Ni/Au (Contact surface)
	TPU GF
	TPU, hardly inflammable, self-extinguishing
	Zinc die-cast, nickel-plated
	NBR

Connection 2

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Type	Plug straight RJ45
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carrier)
	PA (Housing)

Cable/line

Cable length	7 m
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VARAN [970]

Dimensional drawing	
Cable weight	81 kg/km
Number of positions	6
Shielded	yes
Cable type	VARAN [970]
Conductor structure	1x2xAWG22/19 + 1x4xAWG24/19
Conductor structure signal line	19x 0.13 mm
AWG signal line	24
Conductor structure, voltage supply	19x 0.16 mm
AWG power supply	22
Conductor cross-section	4x 0.25 mm ² (Signal line)
	2x 0.38 mm ² (Power supply)
Wire diameter incl. insulation	1.35 mm (Signal line)
	1.5 mm (Power supply)
External cable diameter	7.80 mm ±0.2 mm
Outer sheath, material	SANTOPRENE halogen-free
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material, filler	Yarn
Material wire insulation	PP
Single wire, color	brown, blue, white/orange, white/green, green, orange
Type of pair shielding	Tinned copper braided shield, 95 % covering
Overall twist	1 star quad and 2 wires with 2 fillers
Max. conductor resistance	77 Ω/m (Data cable)
Insulation resistance	5 GΩ*km (Data cable)
Wave impedance	100 Ω ±15 %
Working capacitance	50 nF (Data cable)

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Nominal voltage, cable	125 V (Data cable)
	48 V (Power supply)
Test voltage	2000 V (Power supply)
	max. 700 V AC (Data cable)
Smallest bending radius, fixed installation	≥ 93 mm
Smallest bending radius, movable installation	≥ 93 mm
Dynamic load capacity (bending)	Max. bending cycles: 3000000, Bending radius: 93 mm, Traversing path: 2 m, Traversing rate: 1 m/s, Acceleration: 2 m/s ²
Halogen-free	in accordance with DIN EN 50267-2-1
Ambient temperature (operation)	-20 °C ... 80 °C (Cable)
Ambient temperature (installation)	0 °C ... 50 °C

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation) (Cable, fixed installation)	0 °C ... 50 °C (for installation)
	-20 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)
	-20 °C ... 70 °C (RJ45)

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Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



RJ45 connector, IP20

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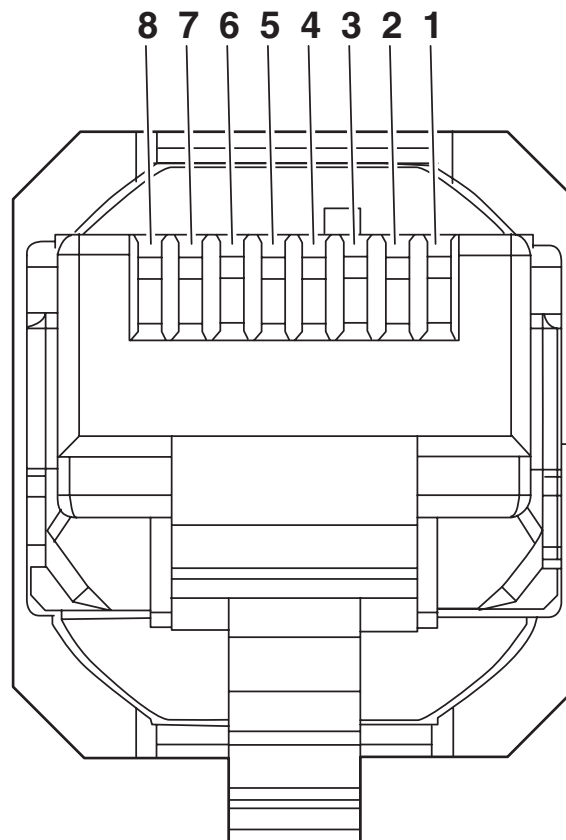
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Schematic diagram



Pin assignment M12 plug, 8-pos., view plug side

Schematic diagram



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Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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