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As illustrated, but without

SPEEDCON

Bus system cable, CANopen®, 5-position, PUR halogen-free, silver-gray RAL 7001, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 6 m, Connector unshielded



Key Commercial Data

Packing unit	1
GTIN	4 055626 745985
GTIN	4055626745985
Custom tariff number	85444290

Technical data

Dimensions

Length of cable	6 m
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Ambient conditions

Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
Degree of protection	IP65
	IP67

General

Rated current at 40°C	4 A
Rated voltage	48 V AC
	60 V DC
Number of positions	5



Technical data

General

Insulation resistance	$\geq 100 \text{ M}\Omega$
Coding	A - standard
Signal type/category	CANopen [®]
Status display	No
Overvoltage category	II
Degree of pollution	3
Halogen-free	complying with IEC 60754-1/2

Material

Flammability rating according to UL 94	НВ
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast
Sealing material	NBR

Standards and Regulations

Halogen-free	complying with IEC 60754-1/2
Flammability rating according to UL 94	НВ

Cable

Cable type	CANopen [®] /DeviceNet™, PUR, gray
Cable type (abbreviation)	923
UL AWM style	21198 (80°C/300 V)
Cable structure	2xAWG24/19+2xAWG22/19
Conductor cross section	2x 0.25 mm² (Data cable)
	2x 0.34 mm² (Power supply)
	1x 0.34 mm² (Drain wire)
AWG signal line	24
AWG power supply	22
Conductor structure signal line	19x 0.13 mm
Conductor structure, voltage supply	19x 0.15 mm
Core diameter including insulation	1.95 mm ±0.05 mm (Data cable)
	1.4 mm ±0.05 mm (Power supply)
Wire colors	Red-black, blue-white
Twisted pairs	2 cores to the pair
Type of pair shielding	Plastic-coated aluminum foil, aluminum side outside
Overall twist	2 pairs around a drain wire in the center to the core



Technical data

Cable

Shielding	Tinned copper braided shield
Optical shield covering	80 %
External sheath, color	silver-gray RAL 7001
External cable diameter D	6.7 mm ±0.3 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	5000000
Bending radius	70 mm
Minimum bending radius, drag chain applications	10 x D
Traversing path	4.5 m
Traversing rate	3 m/s
Acceleration	3 m/s ²
Cable weight	90 kg/km
Outer sheath, material	PUR
Material conductor insulation	Foamed PE (Data cable)
	PE (Power supply)
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 5 GΩ*km (Data cable)
	$\geq 5~G\Omega^*$ km (Power supply)
Loop resistance	≤ 181.80 Ω/km (Data cable)
	≤ 114.80 Ω/km (Power supply)
Cable capacity	nom. 40 nF/km (Data cable)
Wave impedance	120 Ω ±10 % (with 1 MHz)
Attenuation	≤ 22.9 dB/km (with 1 MHz)
	≤ 16.4 dB/km (At 500 kHz)
	≤ 9.5 dB/km (At 125 kHz)
Nominal voltage, cable	≤ 300 V (Peak value, not for high-power applications)
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000 V (50 Hz, 1 min.)
Other resistance	Low adhesion
Flame resistance	UL 1581, Sec. 1060 (FT-1)
	IEC 60332-1
Halogen-free	in accordance with DIN VDE 0472 part 815
	according to IEC 60754-1
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-20 °C 80 °C (cable, flexible installation)

Environmental Product Compliance



Technical data

Environmental Product Compliance

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

Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

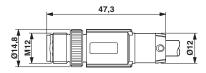
Cable cross section

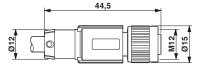


CANopen[®]/DeviceNet™, PUR, gray [923]

Dimensional drawing

Dimensional drawing

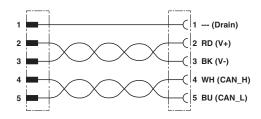




Plug, M12 x 1, straight, shielded

M12 x 1 socket, straight

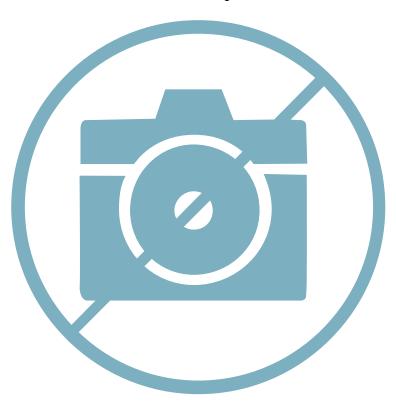
Circuit diagram



Contact assignment of the M12 plug and the M12 socket







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

Classifications

eCl@ss

eCl@ss 10.0.1	27060308
	27060308
eCl@ss 11.0	
eCl@ss 4.0	27060307
eCl@ss 4.1	27060307
eCl@ss 5.0	27061801
eCl@ss 5.1	27060307
eCl@ss 6.0	27279218
eCl@ss 7.0	27060308
eCl@ss 9.0	27060308

ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC000830



Classifications

ETIM

ETIM 4.0	EC001855
ETIM 6.0	EC001262
ETIM 7.0	EC001262

UNSPSC

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	26121616
UNSPSC 13.2	31251501
UNSPSC 18.0	26121604
UNSPSC 19.0	26121604
UNSPSC 20.0	26121604
UNSPSC 21.0	26121604

Approvals

Α	p	DI	ro	V	al	s

Approvals

EAC-RoHS

Ex Approvals

Approval details

EAC-RoHS RU D-DE.HB35.B.00385

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