

NBC-MS/ 2,0-971/FR SCO VR KM - Bus system cable



1421790

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Bus system cable, VARAN, 6-position, PVC, black, shielded, Plug straight M12 SPEEDCON, on Socket angled M12 SPEEDCON, cable length: 2 m, Customer version

Commercial data

Item number	1421790
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1CMM
GTIN	4055626282268
Weight per piece (including packing)	178.6 g
Weight per piece (excluding packing)	169.32 g
Country of origin	PL

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Technical data

Product properties

Product type	Data cable preassembled
Application	Bus system
Sensor type	VARAN
Number of positions	6
No. of cable outlets	1
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

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
Transmission medium	Copper

Material specifications

Flammability rating according to UL 94	HB
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Connector

Connection 1

Type	Plug straight M12 SPEEDCON
Locking type	SPEEDCON
Material	CuZn
	Ni/Au
	TPU GF
	TPU, hardly inflammable, self-extinguishing
	Zinc die-cast, nickel-plated
	NBR

Connection 2

Type	Socket angled M12 SPEEDCON
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Locking type	SPEEDCON
Material	CuZn
	Ni/Au
	TPU GF
	TPU, hardly inflammable, self-extinguishing
	Zinc die-cast, nickel-plated
	NBR

Cable/line

Cable length	2 m
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VARAN PVC [971]

Dimensional drawing	
UL AWM Style	2461 (80°C/300 V)
Number of positions	6
Shielded	yes
Cable type	VARAN PVC [971]
Conductor structure	1x2x24/32+2x2x24/19, SF/UTP
Signal runtime	5.3 ns/m
Conductor structure signal line	19x 0.13 mm
AWG signal line	24
Conductor structure, voltage supply	32x 0.10 mm
AWG power supply	24
Conductor cross-section	2x 2x 0.25 mm ² (Signal line)
	2x 0.25 mm ² (Power supply)
Wire diameter incl. insulation	1.25 mm (Signal line)
	1.4 mm (Power supply)
External cable diameter	7.00 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	black
Conductor material	Bare Cu litz wires
Material wire insulation	PE
Single wire, color	blue-yellow, green-orange, red-blue
Thickness, outer sheath	0.90 mm
Twisted pairs	2 cores to the pair
Overall twist	3 pairs with filler elements to the core
Optical shield covering	85 %

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Max. conductor resistance	78 Ω/km (at 20 °C)
Insulation resistance	≥ 500 MΩ*km (at 20 °C)
Working capacitance	approx. 57 nF (at 1 kHz)
Nominal voltage, cable	≤ 80 V
Test voltage Core/Core	1000 V
Test voltage Core/Shield	1000.00 V
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	28 mm
Smallest bending radius, movable installation	56 mm
Dynamic load capacity (bending)	Max. bending cycles: 200000, Bending radius: 5 x D
Flame resistance	according to IEC 60332-1-2
Resistance to oil	According to DIN EN 60811-2-1, 168 h at 100°C
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (installation)	-40 °C ... 80 °C

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Drawings

Dimensional drawing



M12 x 1 socket, angled, shielded

Schematic diagram



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

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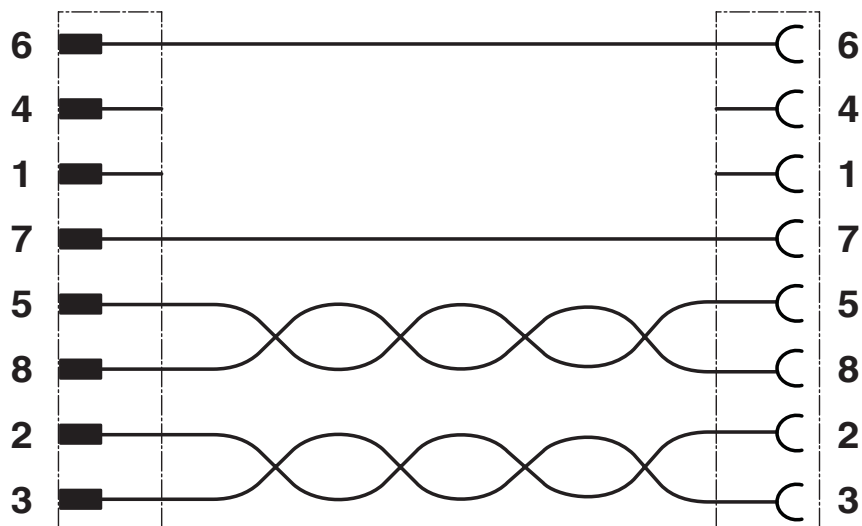
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Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

Circuit diagram



Contact assignment of the M12 connector and the M12 socket

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Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

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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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