

## Bus system cable - SAC-5P-MINMR/15,0-923/MINFR DN - 1420100

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Bus system cable, DeviceNet™, 5-position, PUR halogen-free, silver-gray RAL 7001, shielded, Plug angled 7/8"-16UNF, on Socket angled 7/8"-16UNF, cable length: 15 m



DeviceNet

### Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356539487

### Technical data

#### Dimensions

Length of cable	15 m
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#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C (Plug / socket)
Degree of protection	IP65
	IP67

#### General

Rated current at 40°C	5.2 A
Rated voltage	30 V
Number of positions	5
Coding	A - standard
Signal type/category	DeviceNet™
Status display	No
Overvoltage category	II
Degree of pollution	3
Torque	0.8 Nm (7/8" connectors)

#### Material

# Bus system cable - SAC-5P-MINMR/15,0-923/MINFR DN - 1420100

## Technical data

### Material

Flammability rating according to UL 94	HB
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material of grip body	TPU
Material, knurls	Stainless steel
Sealing material	TPU

### Pin assignment

Contact   Color (signal designation)   Contact (optional)	1 (Plug)   SR (shield)   1 (Socket)
	2 (Plug)   RD (V+)   2 (Socket)
	3 (Plug)   BK (V-)   3 (Socket)
	4 (Plug)   WH (CAN_H)   4 (Socket)
	5 (Plug)   BU (CAN_L)   5 (Socket)

### Standards and Regulations

Flammability rating according to UL 94	HB
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### Cable

Cable type	CANopen <sup>®</sup> /DeviceNet <sup>™</sup> , 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 mm <sup>2</sup> (Data cable)
	2x 0.34 mm <sup>2</sup> (Power supply)
	1x 0.34 mm <sup>2</sup> (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
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

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### Technical data

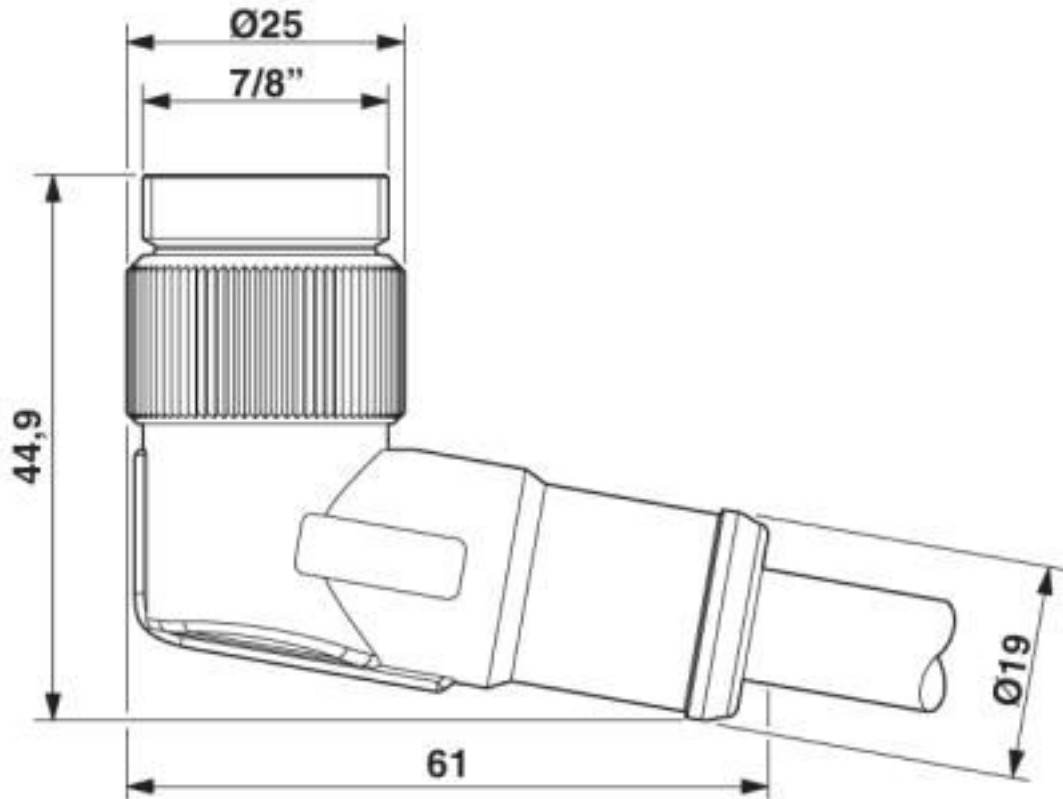
#### Cable

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 <sup>2</sup>
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)
	≥ 5 GΩ*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.)
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
Other resistance	Low adhesion
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (cable, flexible installation)

#### Drawings

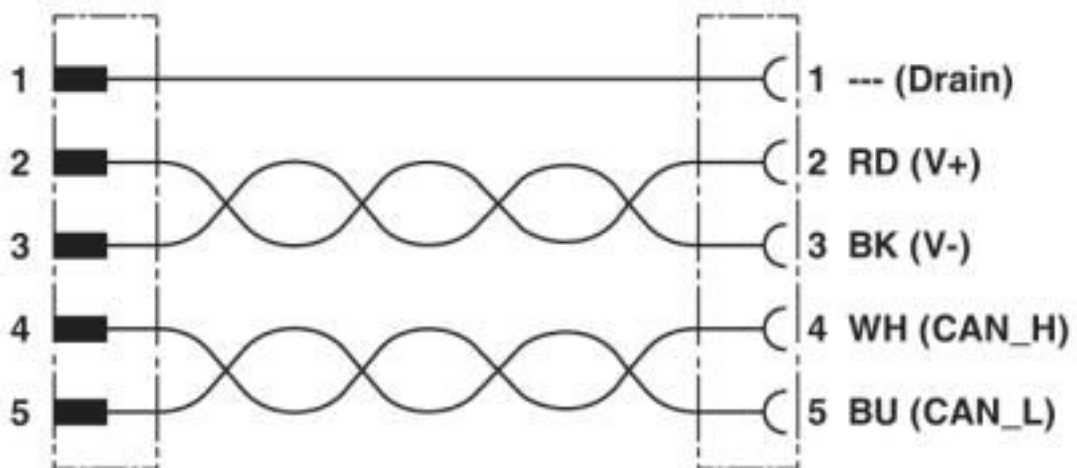
# Bus system cable - SAC-5P-MINMR/15,0-923/MINFR DN - 1420100

Dimensional drawing



7/8"-16UNF plug, angled

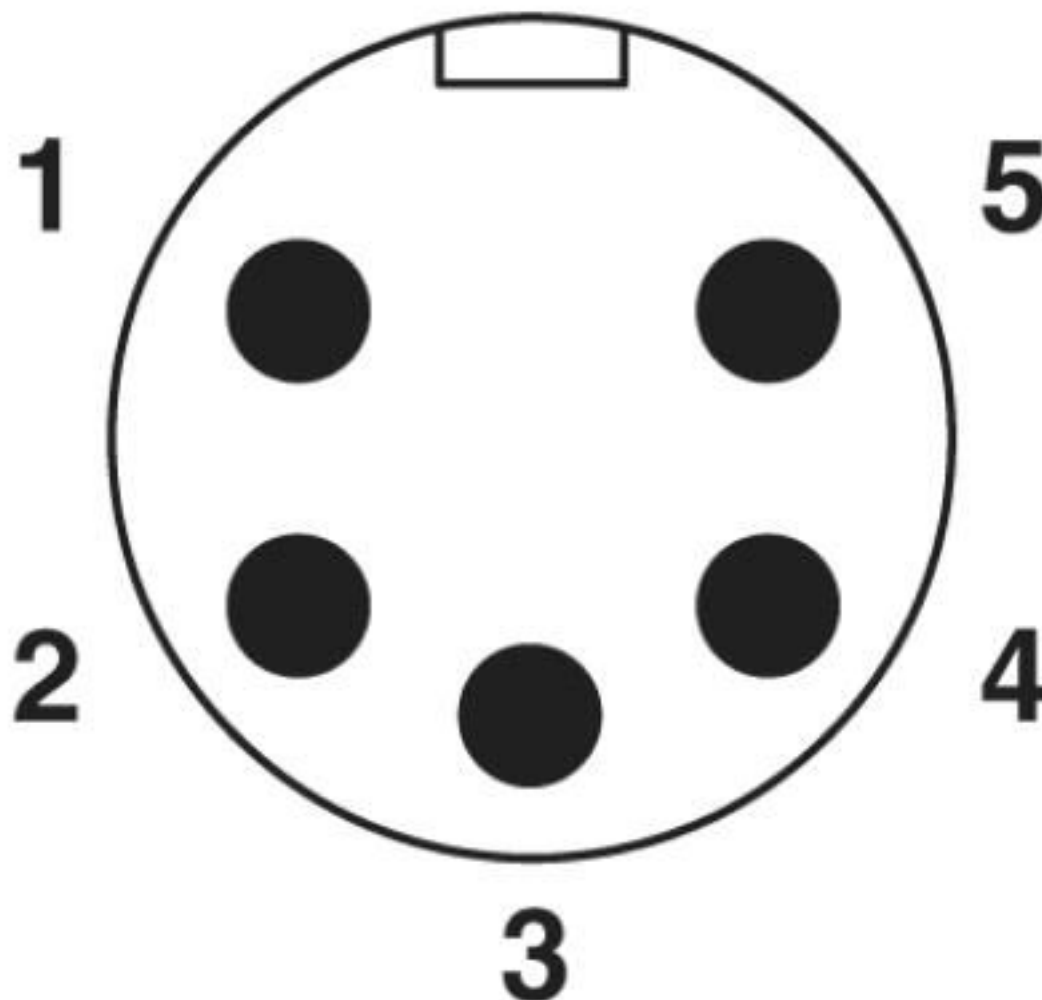
Circuit diagram



Contact assignment of the 7/8" connector and the 7/8" socket

# Bus system cable - SAC-5P-MINMR/15,0-923/MINFR DN - 1420100

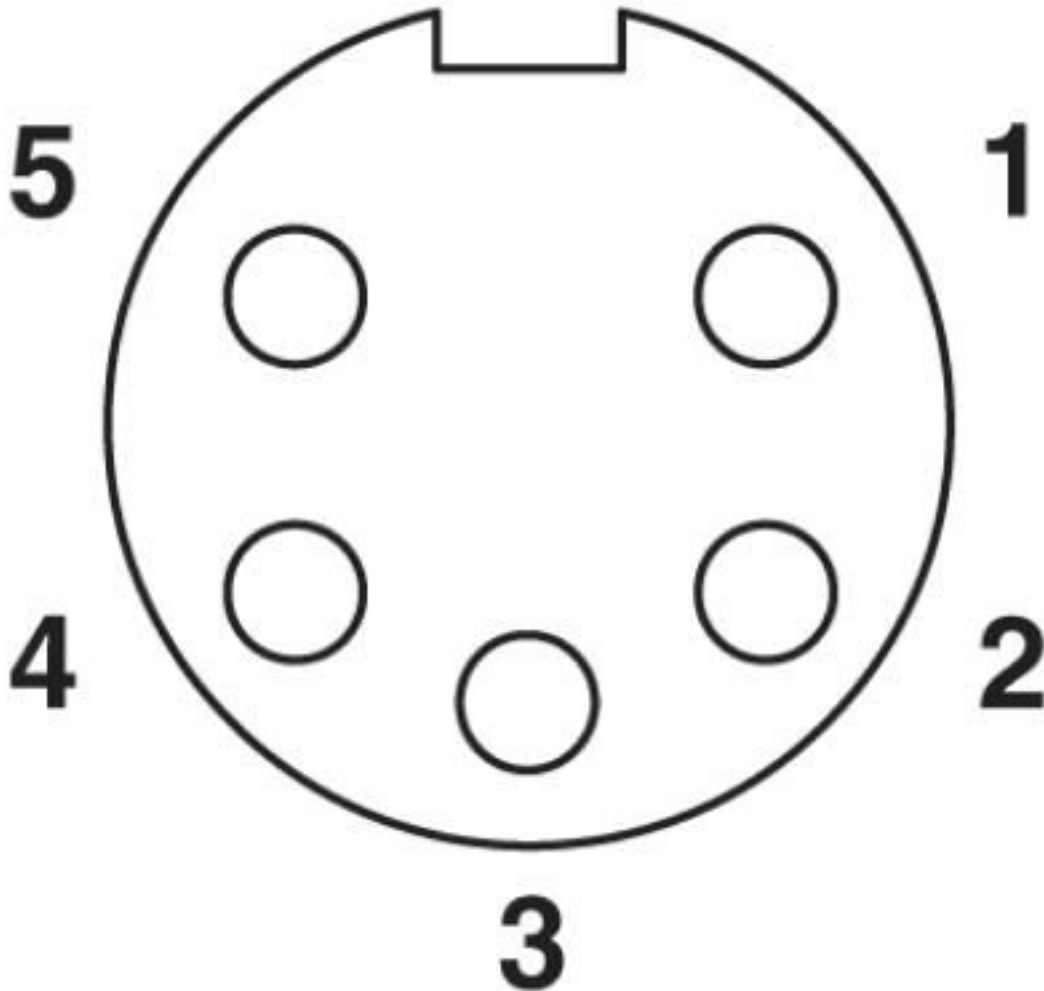
Schematic diagram



Plug pin assignment for 7/8"-16UNF plug, 5-pos.

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Schematic diagram



Pin assignment, socket, 7/8"-16UNF, 5-pos., view of female side

## Bus system cable - SAC-5P-MINMR/15,0-923/MINFR DN - 1420100

Cable cross section



CANopen<sup>®</sup>/DeviceNet<sup>™</sup>, PUR, gray [923]

### Classifications

eCl@ss

eCl@ss 4.0	27060307
eCl@ss 4.1	27060307
eCl@ss 5.0	27061801
eCl@ss 5.1	27060300
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

## Bus system cable - SAC-5P-MINMR/15,0-923/MINFR DN - 1420100

### Classifications

#### ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC000830
ETIM 4.0	EC001855
ETIM 5.0	EC001855
ETIM 6.0	EC001855

#### UNSPSC

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	26121616
UNSPSC 13.2	31251501
UNSPSC 19.0	31251501

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