

DATA SHEET	22260789
AB-DN-M12MS-2.0 PUR	Valid from: 27.06.2017

Description

- Bus system cable, 5-pol, shielded, PUR halogen-free, violet RAL 4001
- For DeviceNet/CANopen
- straight M12 plug on free conductor system end, quick-lock system



General characteristics

Fieldbus system	CAN-Bus DeviceNet
Number of pins	5
Ambient temperature	-25 to +90 °C (-13°F to 194°F) (connector) -40 to +80 °C (-40°F to 176°F) (cable fixed installation) -20 to +80 °C (-4°F to 176°F) (cable flexible)
Degree of protection	IP 65 / IP 67
Coding	A-standard
Cut-off length of the free cable end	50 mm
Tightening torque	0.4 Nm (M12-connector)

Variante

Material	Description	Lenght	Configuration
22260789	AB-DN-M12MS-2.0 PUR	2 m	Straight
22260790	AB-DN-M12MS-5.0 PUR	5 m	Straight
22260791	AB-DN-M12MS-10.0 PUR	10 m	Straight

Electrical properties

Rated voltage	60 V
Rated current at 40 °C	4 A
Overvoltage category	II
Pollution degree	3
Characteristic impedance, line	120 Ω ± 10 % (bei 1 MHz)



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Connector pin assignment

Pol = color of conductor (Signal) = Pol (optional)

- 1 (plug) = SR (Schirm)
- 2 (plug) = RD (V+)
- 3 (plug) = BK (V-)
- 4 (plug) = WH (CAN_H)
- 5 (plug) = BU (CAN_L)

Mechanical properties

Plug

Inflammability class according to UL 94

HB

Contact

CuSn

Contact surface

Ni / Au

Contact carrier

TPU GF

Knurl

Zinc diecasting, nickel-plated

Handle

TPU, flame retardant, self-extinguishing

Line

Cable construction

2xAWG24/19 (dataline)

2xAWG22/19 (power supply)

1x AWG22/19 (support wire)

Conductor diameter including isolation

1.95 mm ±0.05 mm (data line)

1.4 mm ±0.05 mm (power supply)

Cable outer diameter

6.7 mm ± 0.3 mm

Core identification

Red-black, blue-white

Sheath color

Violet, similar to RAL 4001

Type of pair shielding

Plastic laminated alufoil

Shielding

Braid made of tinned copper wires

Bending radius

70 mm

Number of bending cycle

5000000

Traveling distance

4,5 m

Travel speed

3 m/s

Acceleration

3 m/s²

Cable weight

90 kg/km

Outer coating, material

PUR

Material wire insulation

Foamed PE (data cable)

PE (power supply)

Flame resistance

UL 1581, Sec. 1060 (FT-1)

IEC 60332-1

Acc. ISO 6722-1 5.22 (UN ECE-R 118.01)

Halogen-free

Acc. DIN VDE 0472 Teil 815

Acc. IEC 60754-1

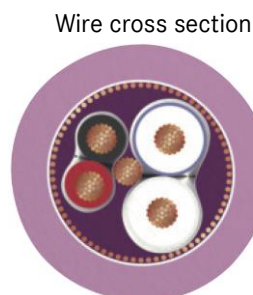
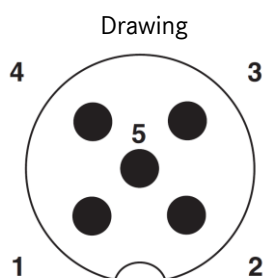
Standards / Approvals

Product standart, M12 connector

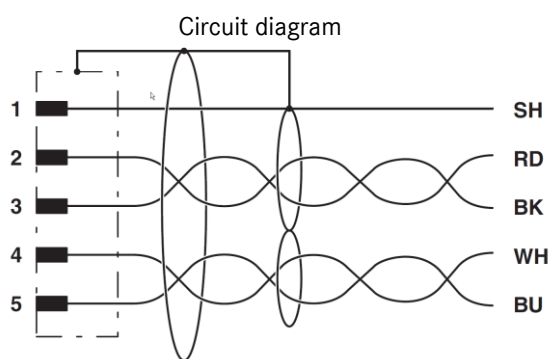
IEC 61076-2-101

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Technical drawing

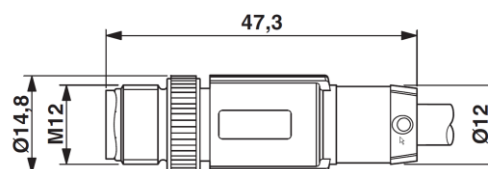


Pin assignment M12-plug, 5 pol, A-coding



Pin assignment the M12-plug

Dimensional drawing



Plug M12 x 1, straight, shielded



Application range

Automation, industrial machinery and plant engineering

Note

Photographs are not true to scale and do not represent detailed images of the respective products.