


22260795	DATA SHEET	
Valid from: 17.09.2018	AB-DN-M12MS-0,3 PUR-M12FS	

Description

- Bus system cable, 5-pol, shielded, PUR halogen-free, violet
- For DeviceNet/CANopen
- Connector consisting of straight M12-plug and straight M12-jack



General characteristics

Fieldbus system	CAN-Bus DeviceNet
Number of position	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
Tightening torque	0.4 Nm (M12-connector)


Variation

Material	Description	Length	Configuration
22260795	AB-DN-M12MS-0.3 PUR-M12FS	0,3 m	Straight - straight
22260796	AB-DN-M12MS-1.0 PUR-M12FS	1 m	Straight - straight
22260797	AB-DN-M12MS-2.0 PUR-M12FS	2 m	Straight - straight
22260798	AB-DN-M12MS-5.0 PUR-M12FS	5 m	Straight - straight
22260799	AB-DN-M12MS-10.0 PUR-M12FS	10 m	Straight - 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)

Creator: ERTC1/PDP Released: IVSE1/PDP	Document: DB22260795EN Version: 04	Page 1 of 3
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22260795	DATA SHEET	
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Connector pin assignment

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

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

Mechanical properties

Plug and jack

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

Seal

NBR

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 colour

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

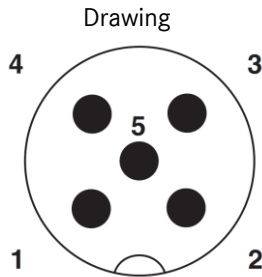
Acc. DIN VDE 0472 part 815

Acc. IEC 60754-1

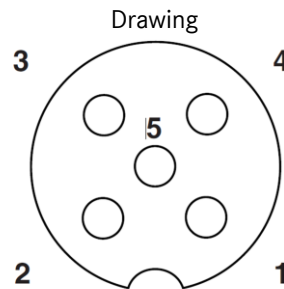
Creator: ERTC1/PDP Released: IVSE1/PDP	Document: DB22260795EN Version: 04	Page 2 of 3
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Technical drawing



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

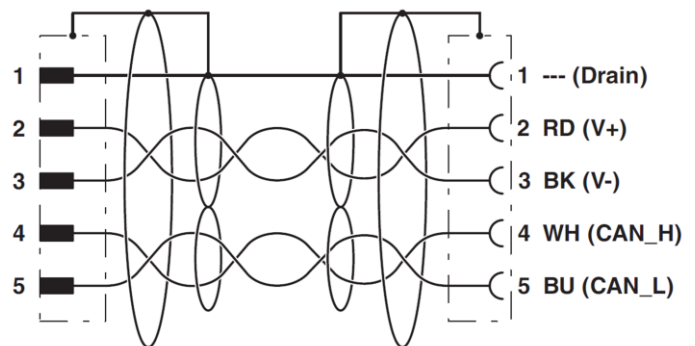


Pin assignment M12-jack, 5 pol, A-coding

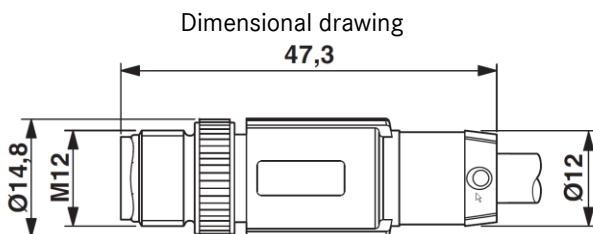
Wire cross section



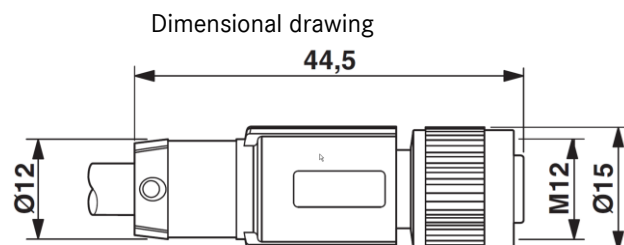
Circuit diagram



Pin assignment M12 plug and M12 jack



Plug M12 x 1, straight, shielded



Jack 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.

Creator: ERTC1/PDP Released: IVSE1/PDP	Document: DB22260795EN Version: 04	Page 3 of 3
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