


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)

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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

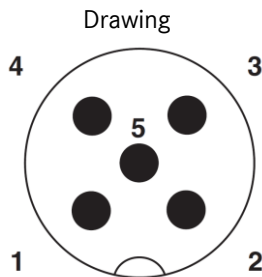
Line

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/s ²
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

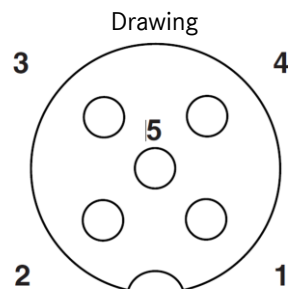
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Technical drawing



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

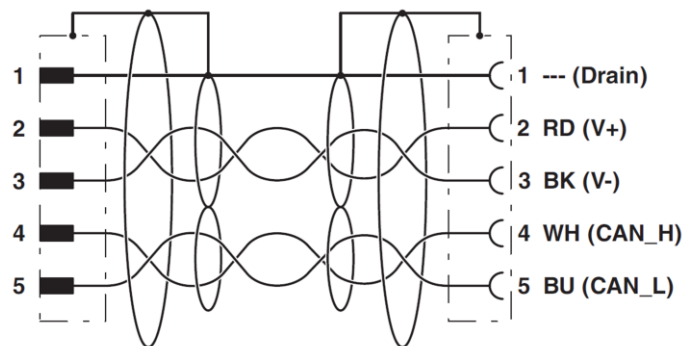


Pin assignment M12-jack, 5 pol, A-coding

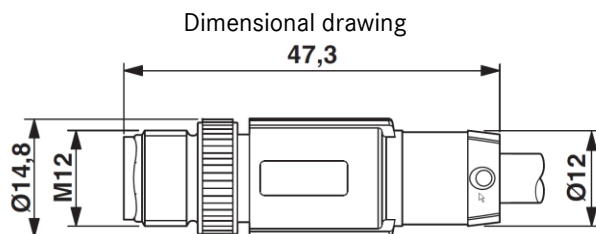
Wire cross section



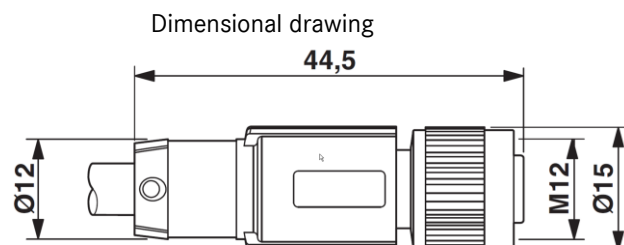
Circuit diagram



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.

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