

22262004	DATA SHEET	
Valid from: 17.09.2018	AB-DN-M12MS-2,0 PUR	

Description

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



General characteristics

Fieldbus system	CAN-Bus DeviceNet
Configuration	Angled
Number of pins	5
Length	2 m
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

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)

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

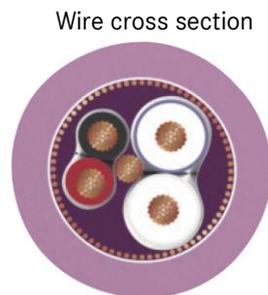
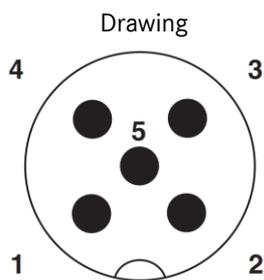
Cable construction	2xAWG24/19 (dataline) 2xAWG22/19 (power supply) 1x AWG22/19 (support wire)
Conductor diameter including isolation	1.95 mm ± 0.05 mm (data line) 1.4 mm ± 0.05 mm (power supply)
Cable outer diameter	6.7 mm ± 0.3 mm
Core identification	Red-black, blue-white
Sheath colour	Violet, similar to RAL 4001

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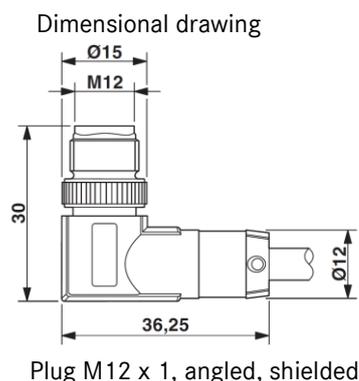
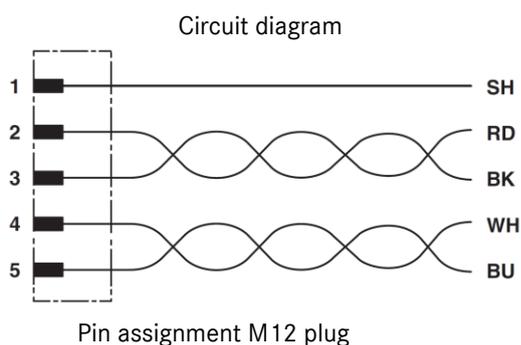
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Type of pair shielding	Plastic laminated alufoil
Shielding	Braid made of tinned copper wires
Bending radius	70 mm
Number of bending cycle	5000000
Traveling distance	4,5 m
Travel speed	3 m/s
Acceleration	3 m/s ²
Cable weight	90 kg/km
Outer coating, 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

Technical drawing



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



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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