
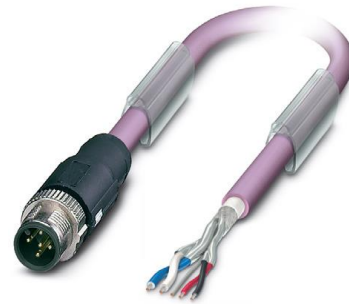


22260789	DATA SHEET	
Valid from: 17.09.2018	AB-DN-M12MS-2.0 PUR	

Description

- Bus system cable, 5-pol, shielded, PUR halogen-free, violet RAL 4001
- For DeviceNet/CANopen
- 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)


Variants

Material	Description	Length	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 = colour 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

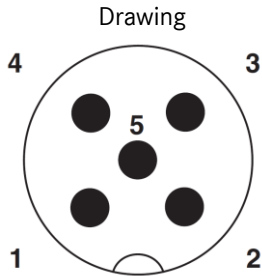
Line

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 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

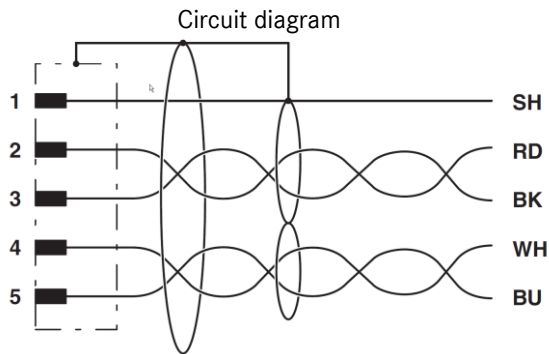
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Technical drawing

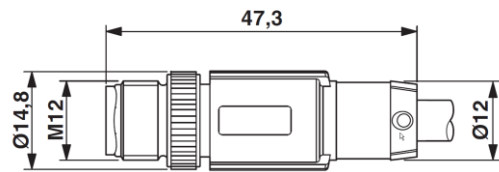


Pin assignment M12-plug, 5 pol, A-coding



Pin assignment 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.

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