

DATA SHEET	22260792
AB-DN-2,0 PUR-M12FS	Valid from: 27.06.2017

Description

- Bus system cable, 5-pol, shielded, PUR halogen-free, violet
- For DeviceNet/CANopen
- straight M12 jack on free conductor 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)

Variation

Material	Description	Length	Configuration
22260792	AB-DN-2,0 PUR-M12FS	2 m	Straight
22260793	AB-DN-5,0 PUR-M12FS	5 m	Straight
22260794	AB-DN-10,0 PUR-M12FS	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 (female) = SR (shield)
- 2 (female) = RD (V+)
- 3 (female) = BK (V-)
- 4 (female) = WH (CAN_H)
- 5 (female) = BU (CAN_L)

Mechanical properties

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 $\pm$ 0.05 mm (data line) 1.4 mm $\pm$ 0.05 mm (power supply)
Cable outer diameter	6.7 mm $\pm$ 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/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 Teil 815 Acc. IEC 60754-1

Standards / Approvals

Product standard, M12 connector	IEC 61076-2-101
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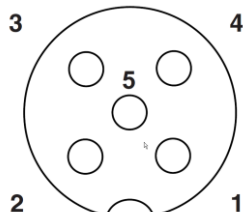
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Technical drawing

Drawing

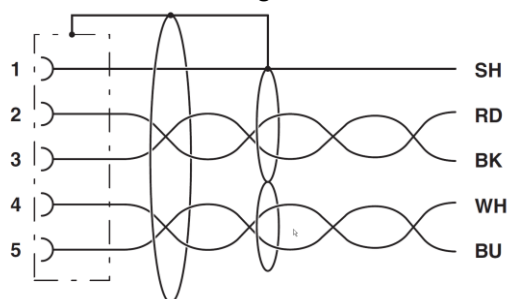


Pin assignment M12-jack, 5 pol, A-coding

Wire cross section

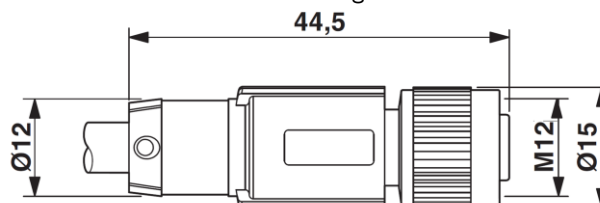


Circuit diagram



Pin assignment M12 jack

Dimensional drawing



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.