


22260137	<b>DATA SHEET</b>	
Valid from: 29.11.2023	<b>AB-C8-M12MS-(L*)PUR-M12FA</b>	

## Product description

- Sensor/actuator cable, 8-pol, PUR halogen-free, black
- Straight M12-plug on angled M12-jack



## General characteristics

Number of pins	8
Ambient temperature	-25 °C to +90 °C (-13°F to 194°F) (plug / jack) -40 °C to +80 °C (-40°F to 176°F) (cable, fixed installation) -25 °C to +80 °C (-13°F to 176°F) (cable, movable installation)
Degree of protection	IP65 / IP67 / IP68
Coding	A-standard
Tightening torque	0,4 Nm (M12-connector)
Plugging cycles	≥ 100

## Variation

Article number	Description	Length [m]	Configuration
22260137	AB-C8-M12MS-0,3PUR-M12FA	0,3	straight - angled
22260138	AB-C8-M12MS-0,6PUR-M12FA	0,6	straight - angled
22260139	AB-C8-M12MS-1,0PUR-M12FA	1,0	straight - angled
22260140	AB-C8-M12MS-2,0PUR-M12FA	2,0	straight - angled

## Additional note

Data sheet also valid for variant lengths. Other lengths on request.

## Electrical properties


Rated voltage	30 V
Rated current	2 A
Overvoltage category	II
Pollution degree	3

## Mechanical properties

### Plug, jack

Inflammability class in accordance with UL 94	HB
Contact, material	CuZn
Contact carrier, material	TPU GF
Contact surface, material	Ni/Au
Knurl, material	Zinc diecasting, nickel-plated
Handle, material	TPU, flame retardant, self-extinguishing
Sealing, material	NBR

Creator: THLE3/PDP Released: IVSE1/PDP	Document: DB22260137EN Version: 04	Page 1 of 4
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22260137	<b>DATA SHEET</b>	
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**Line**

Cable construction	8 x AWG24/32
Signal line, construction	32 x 0,1 mm
Conductor cross-section	0,25 mm <sup>2</sup>
Conductor diameter including isolation	1,17 mm ± 0,02 mm
Cable outer diameter	5,9 mm ± 0,15mm
Insulation color	weiß, braun, grün, gelb, grau, rosa, blau, rot
Sheath color	grey-black, RAL 7021
Number of bending cycles	4.000.000
Bending radius	59 mm
Traveling distance	10 m
Traveling speed	3 m/s
Acceleration	10 m/s <sup>2</sup>
Cable weight	46 kg/km
Outer coating, material	PUR
Wire insulation, material	PP
Insulation resistance	≥ 1 GΩ*km
Conductor resistance	≤ 78 Ω/km
Flame resistance	acc. to UL-Style 20549
Halogen-free	acc. to DIN VDE 0472 Part 815
Oil resistance	acc. to DIN EN 60811-2-1
Other resistances	resistant to hydrolysis and microbes good resistant to acids, lyes and solvents limited UV resistance acc. to DIN EN ISO 4892-2-A suitable for drag chains, silicone-free

**Standards/Approvals**

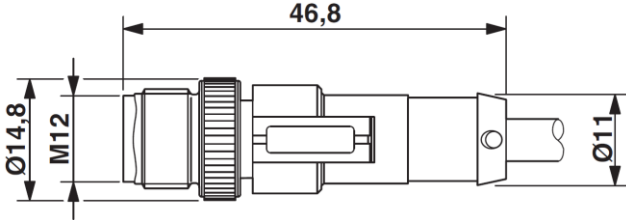
Product standard, M12 connector	IEC 61076-2-101
UL-Listed, E-File	E249137

Creator: THLE3/PDP Released: IVSE1/PDP	Document: DB22260137EN Version: 04	Page 2 of 4
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22260137	<b>DATA SHEET</b>	
Valid from: 29.11.2023	<b>AB-C8-M12MS-(L*)PUR-M12FA</b>	

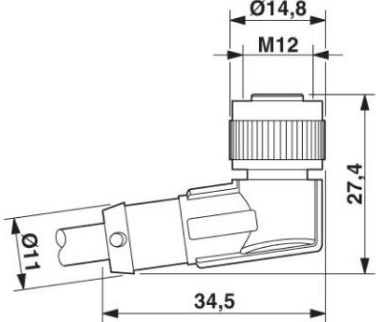
**Technical drawing**

Dimensional drawing



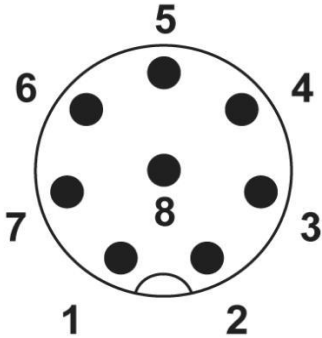
Plug M12 x 1, straight

Dimensional drawing



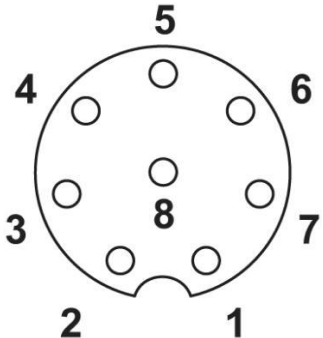
Jack M12 x 1, angled

Drawing



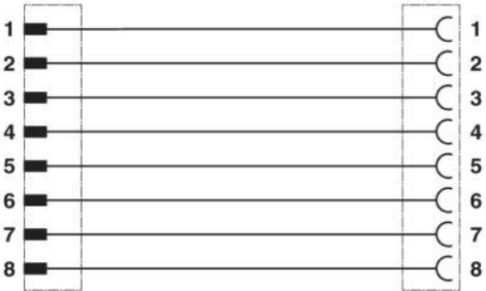
Pin assignment M12-plug, 8-pol, A-codiert

Drawing



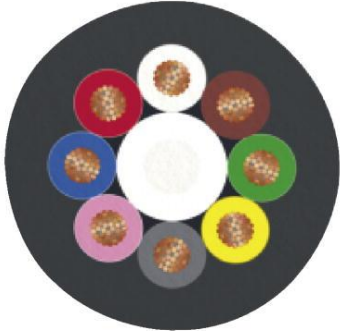
Pin assignment M12-jack, 8-pol, A-codiert

Circuit diagram



Pin assignment between M12-plug and M12-jack

Wire cross section




**Application range**

For increased mechanical load and rough operating conditions

**Note**

Creator: THLE3/PDP Released: IVSE1/PDP	Document: DB22260137EN Version: 04	Page 3 of 4
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Photographs are not true to scale and do not represent detailed images of the respective products.

Creator: THLE3/PDP Released: IVSE1/PDP	Document: DB22260137EN Version: 04	Page 4 of 4
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