

Product data sheet

Automation technology - sensors and actuators

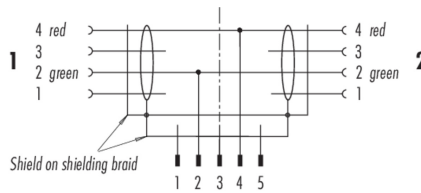


Product description	M12-A connecting cable, Contacts: 2, shielded, moulded cable, IP65, Profibus, PUR, flame retardant purple, 2 x 0.25 mm², 1 m
Area	M12-A series 765
Part no.	79 5225 10 02

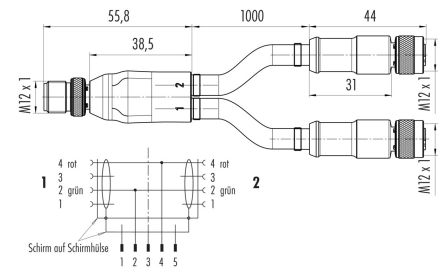
Illustration



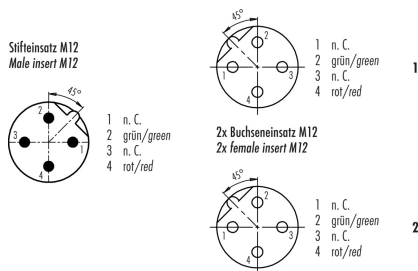
Pin assignment plans



Scale drawing



Contact arrangement (Plug-in side)



Technical data

General features

Part no.	79 5225 10 02
Connector design	connecting cable
Cable length	1 m
Version	connecting cable
Connector locking system	screw
Termination	moulded cable
Degree of protection	IP65
Cross-sectional area	0.25 mm ² / AWG 24
Temperature range from/to	-25 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	170.00
Customs tariff number	85444290

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Electrical parameters

Rated voltage	60 V
Rated impulse voltage	1500 V
Rated current (40 °C)	4 A
Pollution degree	3
Overvoltage category	II
Insulating material group	II
EMC compliance	shielded
Shield connection	Shield on the threaded ring

Material

Housing material	PUR
Contact body material	PUR
Contact material	Pin: CuZn (brass) / Socket: CuSn (bronze)
Contact plating	Au (gold)
Locking material	Zinc die-cast nickel-plated
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	SCIP-number not available

Classifications

eCl@ss 11.1	27-06-03-11
ETIM 7.0	EC001855

Declarations of conformity

Low Voltage Directive	2014/35/EU (EN 60204-1:2018;EN 60529:1991)
RoHS Directive	2011/65/EU (EN 50581:2012)

Cable data - Structure of the cable

Cable type	Profibus
Cable diameter	7.8 mm
Cross section	2 x 0.25 mm ²
Sheath material	PUR, flame retardant
Single-lead insulation	PE foam
Single-lead structure	19 x 0.127 mm mm
Cable color	purple

Cable data - Electrical properties

Conductor resistance	82 Ω/Km (20°C)
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Cable data - Mechanical properties

Bending radius, fixed cable	7.5 x Ø
Bending radius, moving cable	≥ 10 x Ø
Bending cycles	5 million
Permitted acceleration	10 m/s ²
Travel distance, horizontal	≤ 5 m
Travel speed	330 m/min

Cable data - Thermal properties

Temperature range cable in move from/to	-20 °C / 60 °C
Temperature range cable fixed from/to	-40 °C / 70 °C

Cable data - Other features

Halogen free	Yes
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Security notices

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

Plug connectors with enclosure protection IP 67 and IP 68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre.

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 60 cNm).