Product data sheet

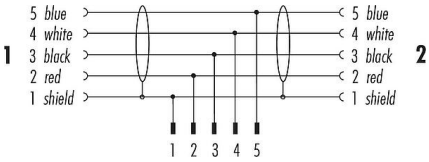
Automation technology - Sensors and actuators

Product description	**M12 Male cable splitter - 2 female cable connectors, Contacts: 5, shielded, moulded on the cable, IP67, CAN-Bus, PUR, violet, 1 x 2 x AWG 22 + 1 x 2 x AWG 24, 1 m**
Area	**M12**
Coding	**A-coded**
Series	**765**
Part no.	**77 9851 2530 50705-0100**

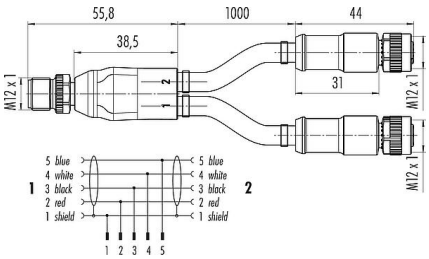
Illustration (may vary)



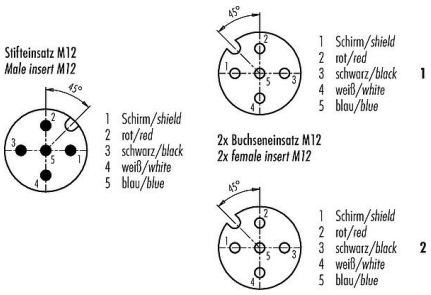
Pin assignment plans



Scale drawing



Contact arrangement (Plug-in side)



Cable length tolerance

cable length	tolerance
≥ 0,10 m	+ 0,03 m
≥ 0,20 m	+ 0,04 m
≥ 0,50 m	+ 0,07 m
≥ 1,00 m	+ 0,10 m
≥ 2,00 m	+ 0,15 m
≥ 5,00 m	+ 0,20 m
≥ 10,0 m	+ 0,25 m
≥ 20,0 m	+ 0,35 m

Technical data

General features

Part no.	77 9851 2530 50705-0100 Alternative part no.: 79 5229 10 05
Notice	Please note that, due to the change from the old to the new order number, there may be deviations in the technical specifications. For questions about product details, please use the 'Contact Customer Service' form on the right.
Connector design	Male cable splitter - 2 female cable connectors
Type standard	DIN EN 61076-2-101

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Coding	A-coded
Cable length	1 m (Standard 1 m and 2 m. Other lengths are available on request.)
Version	Double ended cordsets
Connector locking system	screw
Termination	moulded on the cable
Degree of protection	IP67
Connection cross-section	1x 2x0.34 / 1x 2x0.25 mm² / 1 x 2 x AWG 22 / 1 x 2 x AWG 24
Temperature range from/to	-25 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	264.32
Customs tariff number	85444290
Country of Origin	DE

Electrical parameters

Rated voltage	60 V
Rated impulse voltage	1500 V
Rated current	4.0 A
Pollution degree	3
Overvoltage category	II
Insulating material group	II
EMC compliance	shielded
Shield connection	Shield on pin 1

Material

Housing material	PUR
Contact body material	PUR
Contact material	CuZn (brass) / CuSn (bronze)
Contact plating	Au (gold)
Locking material	Zinc die-cast nickel-plated
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	0fdb6de4-38c1-4253-8161-831bd6422bd8

Cable data - Structure of the cable

Cable type	CAN-Bus
Cable diameter	7.2 mm
Cross section	1 x 2 x AWG 22 + 1 x 2 x AWG 24
Sheath material	PUR
Single-lead insulation	Polyolefins and skin-foamed PE
Single-lead structure	19 x 0.16 mm / 19 x 0.13 mm
Cable color	violet

Cable data - Mechanical properties

Bending radius, fixed cable	5 x Ø
Bending radius, moving cable	10 x Ø

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Bending cycles	1 million
Permitted acceleration	max. 5 m/s²

Cable data - Thermal properties

Temperature range cable in move from/to	-20 °C / 80 °C
Temperature range cable fixed from/to	-40 °C / 80 °C

Cable data - Other features

Halogen free	yes

Classifications

eCl@ss 11.1	27-06-03-11
ETIM 9.0	EC002638

Declarations of conformity

Low Voltage Directive	EN 60529:1991 | EN 60204-1:2018
RoHS Directive	EN IEC 63000:2018

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Security notices

The connector must not be plugged or unplugged under load. Non-observance and improper use can result in personal injury.

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.

Connectors which are used in circuits with voltages dangerous to the touch may only be installed and used by, or under the supervision of, persons with electrical engineering training, taking into account the applicable regulations and standards.

The user must take suitable safety precautions to ensure that the connector cannot be accidentally disconnected.

Plug connectors with enclosure protection IP67 and IP68 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.

Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

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