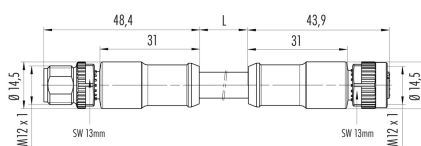


Product description	M12-A connecting cable, Contacts: 4, unshielded, moulded cable, IP67, UL, PUR black, 4 x 1.50 mm <sup>2</sup>
Area	M12-A series 765
Part no.	77 0606 0605 50704-0200

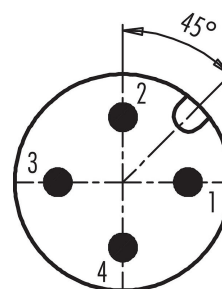
### Illustration



### Scale drawing



### Contact arrangement (Plug-in side)



- 1 brown
- 2 white
- 3 blue
- 4 black

## Technical data

### General features

Part no.	77 0606 0605 50704-0200
Connector design	connecting cable
Cable length	2 m
Version	connecting cable
Connector locking system	screw
Termination	moulded cable
Degree of protection	IP67
Cross-sectional area	0.34 mm <sup>2</sup> / AWG 24
Temperature range from/to	-25 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	137
Customs tariff number	85444290

### Electrical parameters

Rated voltage	60 V
Rated impulse voltage	1500 V
Rated current (40 °C)	4 A
Insulation resistance	≥ 10 <sup>10</sup> Ω
Pollution degree	3
Overvoltage category	II
Insulating material group	II
EMC compliance	unshielded

# Product data sheet

## Automation technology - sensors and actuators



Product description	M12-A connecting cable, Contacts: 4, unshielded, moulded cable, IP67, UL, PUR black, 4 x 1.50 mm <sup>2</sup>
Area	M12-A series 765
Part no.	77 0606 0605 50704-0200

### 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	d405a673-c8f7-4e9e-aca7-420459da9595

### Authorization/approvals

Approvals	UL
-----------	----

### Classifications

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

### Declarations of conformity

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

### Cable data - Structure of the cable

Cable diameter	4.7 mm
Cross section	4 x 1.50 mm <sup>2</sup>
Sheath material	PUR
Single-lead insulation	PP9Y halogen-free
Single-lead structure	43x0,1 mm
Cable color	black

### Cable data - Electrical properties

Conductor resistance	13.3 Ω/Km (20°C)
----------------------	------------------

### Cable data - Mechanical properties

Bending radius, fixed cable	≥ 5 x Ø
Bending radius, moving cable	≥ 10 x Ø
Bending cycles	>5 million
Permitted acceleration	≥ 5 m/s <sup>2</sup>
Travel distance, horizontal	20 m
Travel speed	≤ 3.33 m/s

Product description	M12-A connecting cable, Contacts: 4, unshielded, moulded cable, IP67, UL, PUR black, 4 x 1.50 mm <sup>2</sup>
Area	M12-A series 765
Part no.	77 0606 0605 50704-0200

#### Cable data - Thermal properties

Temperature range cable in move from/to	-25 °C / 80 °C
Temperature range cable fixed from/to	-50 °C / 80 °C

#### Cable data - Other features

Halogen free	Yes
--------------	-----

Product description	M12-A connecting cable, Contacts: 4, unshielded, moulded cable, IP67, UL, PUR black, 4 x 1.50 mm <sup>2</sup>
Area	M12-A series 765
Part no.	77 0606 0605 50704-0200

### 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.

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).