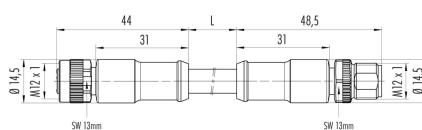


Product description	M12-S connection cable male cable connector - female cable connector, Contacts: 3+PE, unshielded, moulded cable, IP68, M12x1.0, PUR, flame retardant black, 4 x 1.50 mm ² , 2 m
Area	M12-S series 814
Part no.	77 0690 0689 50704-0200

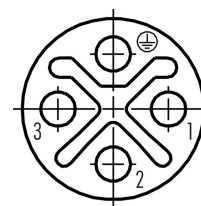
Illustration



Scale drawing

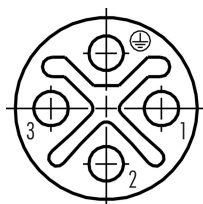


Contact arrangement (Plug-in side)



- 1 black
- 2 black
- 3 black
- PE yellow/green

Contact arrangement (Plug-in side)



- 1 black
- 2 black
- 3 black
- PE yellow/green

Technical data

General features

Part no.	77 0690 0689 50704-0200
Connector design	connection cable male cable connector - female cable connector
Cable length	2 m
Version	connecting cable
Connector locking system	screw
Termination	moulded cable
Degree of protection	IP68
Cross-sectional area	1.50 mm ² / AWG 16
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	585
Customs tariff number	85444290

Automation technology - voltage and power supply

Product description	M12-S connection cable male cable connector - female cable connector, Contacts: 3+PE, unshielded, moulded cable, IP68, M12x1.0, PUR, flame retardant black, 4 x 1.50 mm ² , 2 m
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Electrical parameters

Rated voltage	630 V
Rated impulse voltage	6000 V
Rated current (40 °C)	12 A
Pollution degree	3
Overvoltage category	III
Insulating material group	II
EMC compliance	unshielded

Material

Housing material	PUR
Contact body material	PUR
Contact material	CuZn (brass)
Contact plating	Au (gold)
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	c0940acd-196a-471d-a17c-daeab74a416d

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	8.1 mm
Cross section	4 x 1.50 mm ²
Sheath material	PUR, flame retardant
Single-lead insulation	PP
Single-lead structure	84 x 0.15 mm mm
Cable color	black

Cable data - Electrical properties

Conductor resistance	146 Ω/Km (20°C)
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Cable data - Mechanical properties

Bending radius, fixed cable	≥ 10 x Ø
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Automation technology - voltage and power supply

Product description	M12-S connection cable male cable connector - female cable connector, Contacts: 3+PE, unshielded, moulded cable, IP68, M12x1.0, PUR, flame retardant black, 4 x 1.50 mm ² , 2 m
Area	M12-S series 814
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Bending radius, moving cable	≥ 15 x Ø
Bending cycles	5 million
Travel distance, horizontal	20 m
Travel speed	180 m/min (at 2.5m)

Cable data - Thermal properties

Temperature range cable in move from/to	-20 °C / 80 °C
Temperature range cable fixed from/to	-50 °C / 80 °C

Cable data - Other features

Halogen free	Yes
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Product description	M12-S connection cable male cable connector - female cable connector, Contacts: 3+PE, unshielded, moulded cable, IP68, M12x1.0, PUR, flame retardant black, 4 x 1.50 mm², 2 m
Area	M12-S series 814
Part no.	77 0690 0689 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.

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

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).