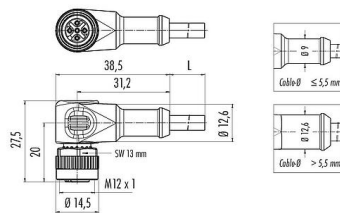


Product description **M12 Female angled connector, Contacts: 8, unshielded, moulded on the cable, IP69K, UL, PVC, grey, 8 x 0.25 mm², 2 m**
 Area **M12-A**
 Part no. **77 3434 0000 20708-0200**

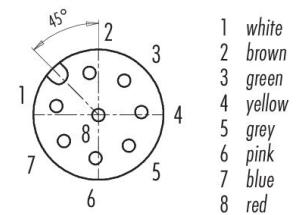
Illustration



Scale drawing



Contact arrangement (Plug-in side)



Technical data

General features

Part no.	77 3434 0000 20708-0200
Connector design	Female angled connector
Type standard	DIN EN 61076-2-101
Cable length	2 m (Standard 2 m and 5 m. Other lengths are available on request.)
Version	Connector socket angled
Connector locking system	screw
Termination	moulded on the cable
Degree of protection	IP69K
Cross-sectional area	0.25 mm ² / AWG 24
Temperature range from/to	-25 °C / 90 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	123.00
Customs tariff number	85444290
Country of Origin	DE

Electrical parameters

Rated voltage	60 V
Rated voltage UL	2457
Rated impulse voltage	800 V
Rated current	2.0 A
Insulation resistance	≥ 10 ¹⁰ Ω
Pollution degree	3
Overvoltage category	II
Insulating material group	II
EMC compliance	unshielded

Product data sheet

Automation technology - Sensors and actuators



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Material

Housing material	PUR
Contact body material	PUR
Contact material	CuSn (bronze)
Contact plating	Au (gold)
Locking material	Zinc die-cast nickel-plated
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	40a17bb2-ccfe-48e0-b539-70c84cd0e315

Authorization/approvals

Approvals	UL
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Classifications

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

Declarations of conformity

RoHS Directive	2011/65/EU (EN 50581:2012)
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Cable data - Structure of the cable

Cable diameter	6.0 mm
Cross section	8 x 0.25 mm ²
Sheath material	PVC
Single-lead insulation	PVC
Single-lead structure	32 x 0.10 mm
Cable color	grey

Cable data - Electrical properties

Conductor resistance	79 Ω/Km (20°C)
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Cable data - Mechanical properties

Bending radius, fixed cable	≥ 5 x Ø
Bending radius, moving cable	≥ 10 x Ø
Bending cycles	> 2 million
Permitted acceleration	max. 5 m/s ² + 1 m/s ²
Travel distance, horizontal	5 m/s ² -> 5 m
Travel distance, vertical	5 m/s ² -> 2 m
Travel speed	at 5 m horizontal path -> 200 m/min

Cable data - Thermal properties

Temperature range cable in move from/to	-5 °C / 105 °C
Temperature range cable fixed from/to	-40 °C / 105 °C

Product data sheet
Automation technology - Sensors and actuators



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Cable data - Other features

Halogen free	no
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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.

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

The protection class specification applies on condition that the four mounting holes are made as blind holes.