Product data sheet

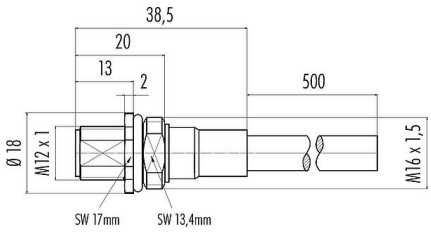
Automation technology - Sensors and actuators

Product description	**M12 Male panel mount connector, Contacts: 5, shielded, with cable assembled, IP68, M16x1.5, PUR, black, 5 x 0.25 mm², Front mounting, 0.5 m**
Area	**M12-A**
Coding	**A-coded**
Series	**763**
Part no.	**70 3441 785 05**

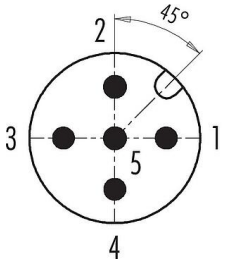
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



1 brown
2 white
3 blue
4 black
5 grey

Shielded versions:
shield = housing

You can find the assembly instructions on the next page.

Technical data

General features

Part no.	70 3441 785 05
Connector design	Male panel mount connector
Type standard	DIN EN 61076-2-101
Coding	A-coded
Cable length	0.5 m (Other lengths are available on request.)
Version	Connector pin straight
Connector locking system	screw
Termination	with cable assembled
Degree of protection	IP68
Temperature range from/to	-25 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	32.20
Customs tariff number	85444290
Country of Origin	HU

Electrical parameters

Rated voltage	60 V
Rated impulse voltage	1500 V
Rated current	4.0 A
Insulation resistance	> 10^8 Ω
Pollution degree	3
Insulating material group	III
EMC compliance	shielded
Shield connection	Shield on the housing

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Material

Housing material	CuZn (Brass nickel plated)
Contact body material	PA
Contact material	CuZn (brass)
Contact plating	Au (gold)
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	f6c921ba-9433-4eac-9781-20930c0dc7f0

Cable data - Structure of the cable

Cable diameter	4.8 mm
Cross section	5 x 0.25 mm²
Sheath material	PUR
Single-lead insulation	PP
Single-lead structure	32 x 0.10 mm
Cable color	black

Cable data - Mechanical properties

Bending radius, fixed cable	≥ 5 x Ø
Bending radius, moving cable	≥ 10 x Ø
Bending cycles	> 2 million
Permitted acceleration	5 m/s²
Travel speed	at 5 m horizontal path -> 200 m/min

Cable data - Thermal properties

Temperature range cable in move from/to	-25 °C / 90 °C
Temperature range cable fixed from/to	-50 °C / 90 °C

Cable data - Other features

Halogen free	yes

Trade-Compliance

Copper (9903.78.01)	0.013965 kg

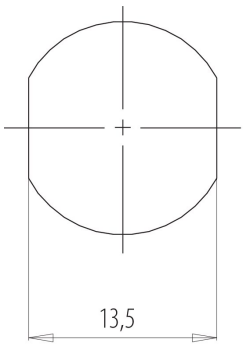
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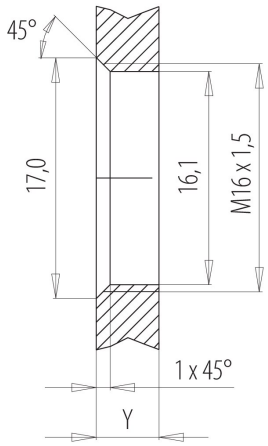
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Assembly instructions / Panel cut-out

With flats as anti-rotation device



With bore hole



Installation direction: o-ring sits on chamfer.

Tightening moment

Metall housing/Plastic housing 1,25 Nm

Thickness of wall **Y** (mm)		
Version	**min** (mm)	**max** (mm)
Fastened from rear	2	3,5
Front fastened	2	4,5
positioning possible [1]	2	3,5
Screw clamp	2	3,5
Thread M12 x 1	2	3,0
Thread M14 x 1 [2]	[3]1,5/[4]2	6,5

Notes

[1] Do not attach a chamfer
[2] Wall thickness:
use nut 38 5385 100 001 up to 1,5 mm,
>1,5 mm cut thread
[3] Nut
[4] Thread in wall of housing

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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.

To protect against unintentional opening of the connector, the thread between the housing and the connector head must be secured with a suitable cyanoacrylate adhesive when used in circuits with voltages dangerous to the touch. This does not apply to connectors used in SELV and PELV circuits according to IEC 61140 (EN 61140, VDE 0140-1).

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.

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

The user must take appropriate safety precautions to ensure that the connector cannot be accidentally disconnected. In addition, the user must ensure that the cable is suitably secured.