

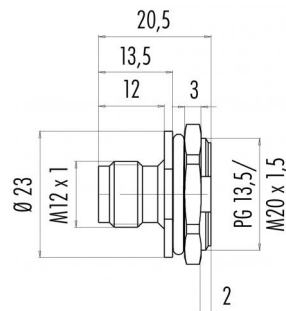
Product description **M12-A male panel mount connector, Contacts: 4, not shielded, solder, IP68, UL, M20x1.5**

Area **M12-A series 713**  
Order number **86 4631 1002 00004**

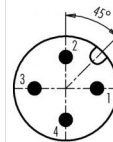
### Illustration



### Scale drawing



### Contact arrangement (Plug-in side)



	X	Y
1	2,50	0,00
2	0,00	2,50
3	-2,50	0,00
4	0,00	-2,50

- 1 braun/brown
- 2 weiß/white
- 3 blau/blue
- 4 schwarz/black

Geschirmte Versionen: Schirm auf Gehäuse  
Shielded versions: shield on housing

You can find the assembly instructions on the next page.

## Technical data

### General values

#### 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  
Connector locking system  
Termination  
Wire gauge (mm)  
Wire gauge (AWG)  
Upper limit temperature  
Lower limit temperature  
Customs tariff number  
Packaging Unit

male panel mount connector  
screw  
solder  
0.34 mm<sup>2</sup>  
22  
85 °C  
- 40 °C  
85369010  
25

### Cable data

Approval 1

UL

### Electrical values

Rated current (40 °C)  
Rated voltage  
Rated impulse voltage  
Pollution degree  
Overvoltage category  
Insulating material group  
Insulation resistance  
EMC compliance  
Degree of protection  
Mechanical operation

4 A (3 A UL)  
250 V  
2500 V  
3  
II  
III  
> 10<sup>8</sup> Ω  
not shielded  
IP68  
> 50 Mating cycles

### Material

Contact material  
Contact plating  
Contact body material  
Housing material  
Locking material  
REACH SVHC

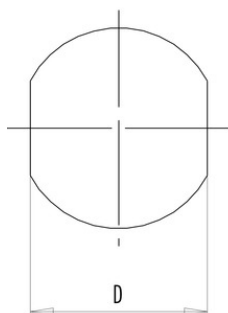
CuZn (brass)  
Au (gold)  
PA  
PA  
plastic  
CAS 7439-92-1 (Lead)

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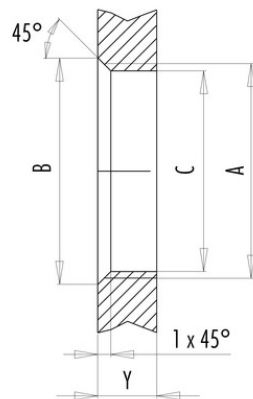
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## Assembly instructions / Panel cut-out

With flats as anti-rotation device



With bore hole



Installation direction:  
o-ring sits on chamfer.

Thread	Measures			Tightening torque	
	B (mm)	C (mm)	D (mm)	Metal housing/ Positioning sleeve	Plastic housing/ Positioning sleeve
PG 9	16,2	15,3	13,5	1,25 Nm	1,25 Nm
PG 11	20,2	18,7	17,0	2 Nm	–
PG 13,5	21,5	20,5	–	2 Nm	–
M12 x 0,5	–	12,1	–	–	0,4 Nm
M12 x 1	–	12,2	–	1 Nm	–
M14 x 1	15,2	14,2	–	1,25 Nm	–
M16 x 1,5	17,0	16,1	13,5	1,25 Nm	1,25 Nm
M20 x 1,5	21,0	20,1	–	2 Nm	1,25 Nm

Thickness of wall Y (mm)		
Version	min (mm)	max (mm)
Fastened from back side	2	3,5
Front fastened	2	4,5
Positioning possible <sup>1)</sup>	2	3,5
Screw clamp	2	3,5
Thread M12 x 1	2	3,0
Thread M14 x 1 <sup>2)</sup>	<sup>3)</sup> 1,5/ <sup>4)</sup> 2	6,5

### Notes

- <sup>1)</sup> Do not attach a chamfer
- <sup>2)</sup> Wall thickness:  
use locknut 01-5385  
up to 1,5 mm,  
>1,5 mm cut thread
- <sup>3)</sup> Nut
- <sup>4)</sup> Thread in wall of housing

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## Security notices

The connector must not be connected or separated under load. Non-observance and incorrect use can result in personal injury.

The connectors are designed for use in plant, control system and electrical equipment. The end user is responsible for checking whether the connectors are suitable for use in other applications.

Connectors with degree of protection IP 67 and IP 68 are not suitable for use under water. When used outdoors, the connectors must be separately protected against corrosion. For further information about IP degrees of protection refer to 'Technical support' in the Download Centre.