Product data sheet
Automation technology - sensors and actuators
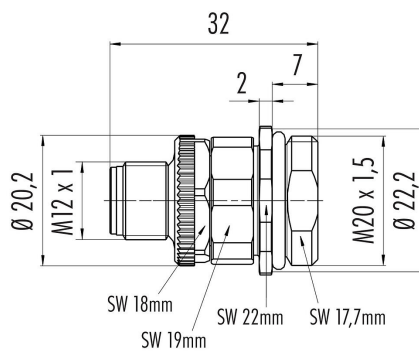
binder

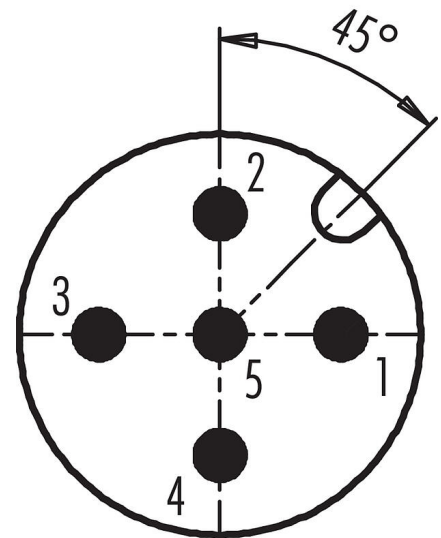|	
Product description	**M12-A male panel mount connector, Contacts: 5, unshielded, screw clamp, IP67, UL, VDE, M20x1.5**
Area	**M12-A series 763**
Order number	**86 0431 0003 00005**

Illustration

Scale drawing

Contact arrangement (Plug-in side)

You can find the assembly instructions on the next page.

Technical data

General features

Order number	86 0431 0003 00005
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	male panel mount connector
Version	connector male straight
Connector locking system	screw
Termination	screw clamp
Degree of protection	IP67
Cross-sectional area	0.75 mm² / AWG 18
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	25.63
Customs tariff number	85369010

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Electrical parameters

Rated voltage	60 V
Rated impulse voltage	1500 V
Rated current (40 °C)	contacts 1-4: 8 A / contact 5: 2 A
Insulation resistance	$> 10^8 \ \Omega$
Pollution degree	3
Overvoltage category	II
Insulating material group	III
EMC compliance	unshielded

Material

Housing material	Zinc die-cast nickel-plated
Contact body material	PA black
Contact material	CuZn (brass)
Contact plating	Au (gold)
REACH SVHC	CAS 7439-92-1 (Lead)

Authorization/approvals

Approvals	UL, VDE

Classifications

eCl@ss 11.1	27-44-01-09
ETIM 7.0	EC003569

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Assembly instructions
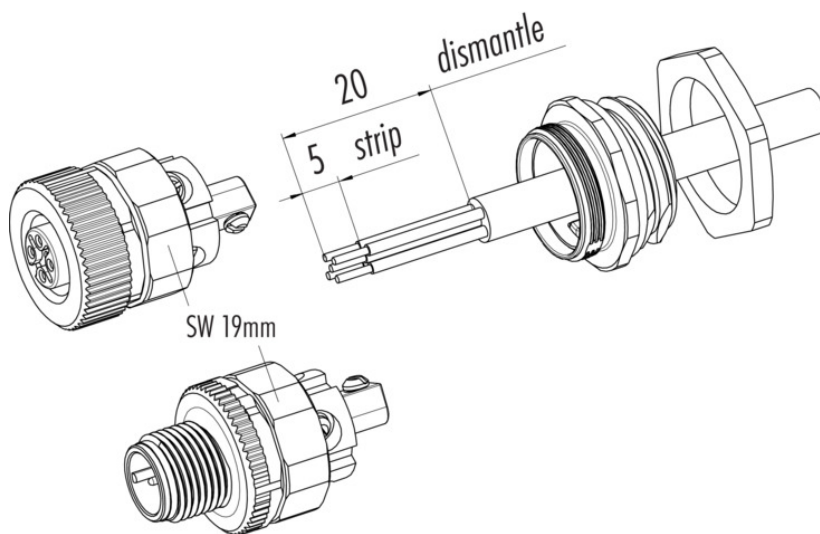
Wire cross section
max. 1,5 mm^2 4, 5 contacts

Contact insert
4 x 90° adjustable

Tightening torque
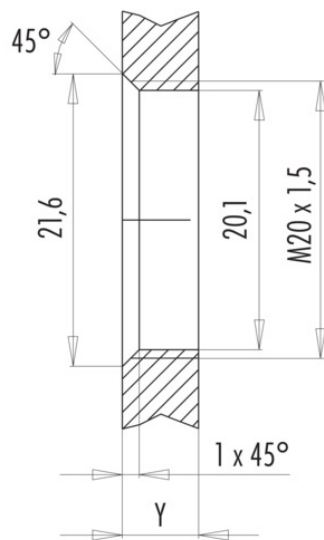SW 19 *nut* = 5 Nm   M18 x 0,75
M20 x 1,5 = 5 Nm

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Assembly instructions / Panel cut-out

With flats as anti-rotation device

With bore hole

45°

21,6

20,1

M20 x 1,5

1 x 45°

Y
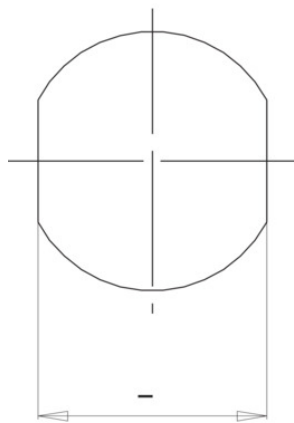
Installation direction: o-ring sits on chamfer.

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 locknut 01-5385 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.

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.