Product data sheet

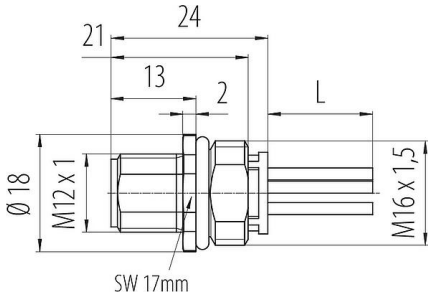
Automation technology - Voltage and Power Supply

Product description	**M12 Male panel mount connector, Contacts: 4, unshielded, single wires, IP68, UL 2238, M16x1.5, Front mounting**
Area	**M12-L**
Coding	**L-coded**
Series	**823**
Part no.	**76 0243 0015 00044-0500**

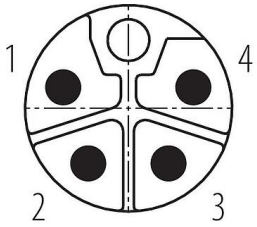
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



1 brown
2 white
3 blue
4 black

You can find the assembly instructions on the next page.

Technical data

General features

Part no.	76 0243 0015 00044-0500
Connector design	Male panel mount connector
Coding	L-coded
Wire length	0.5 m (Other lengths are available on request.)
Version	Connector pin straight
Connector locking system	screw
Termination	single wires
Degree of protection	IP68
Connection cross-section	1.50 mm² / AWG 16
Temperature range from/to	-40 °C / 105 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	0.00
Customs tariff number	85369010
Country of Origin	DE

Electrical parameters

Rated voltage	63 V
Rated impulse voltage	1500 V
Rated current	12.0 A
Insulation resistance	> 10^{10} Ω
Pollution degree	3
Overvoltage category	III
Insulating material group	I
EMC compliance	unshielded

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Material

Contact body material	PA
Contact material	CuZn (brass)
Contact plating	Au (gold)
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	5531d6fb-6828-446b-beac-81386df551ce

Wire Data - Structure of the wire

Cross section (mm²)	4 x 1.50 mm²
Cross section (AWG)	4 x AWG 16
Wire diameter	2,5 mm
Wire colors	black blue brown white
Sheath material	PVC
Wire material	Cu (tinned)
Wire structure	41 x 0.203 mm

Wire Data - Electrical properties

Rated voltage	300 V
Rated impulse voltage	2500 V
Wire resistance	13,3 Ω/Km (20°C)
Insulation resistance	100.0 Ω/Km (20 °C)

Wire Data - Thermal properties

Temperature range wire in move from / to (°C)	-10 °C / 105 °C
Temperature range wire fixed from / to (°C)	-40 °C / 105 °C

Authorization/approvals

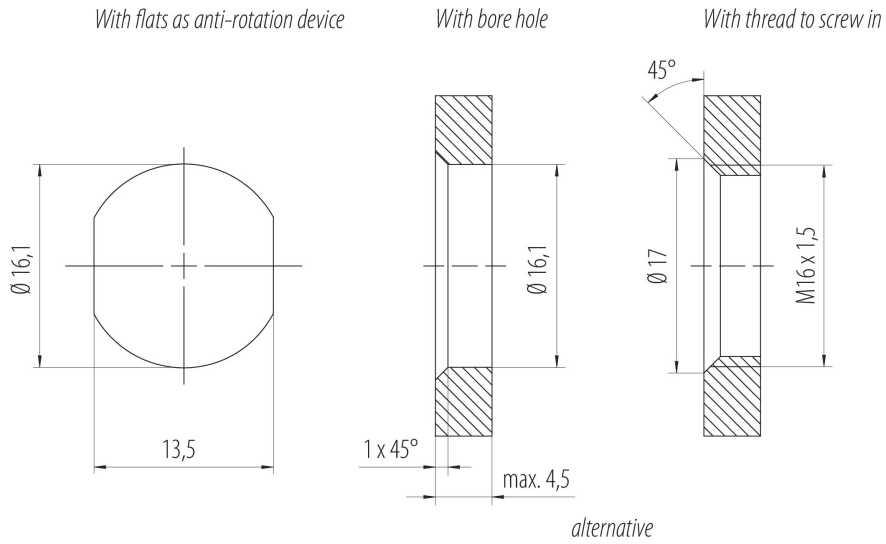
Approvals	UL 2238

Product data sheet

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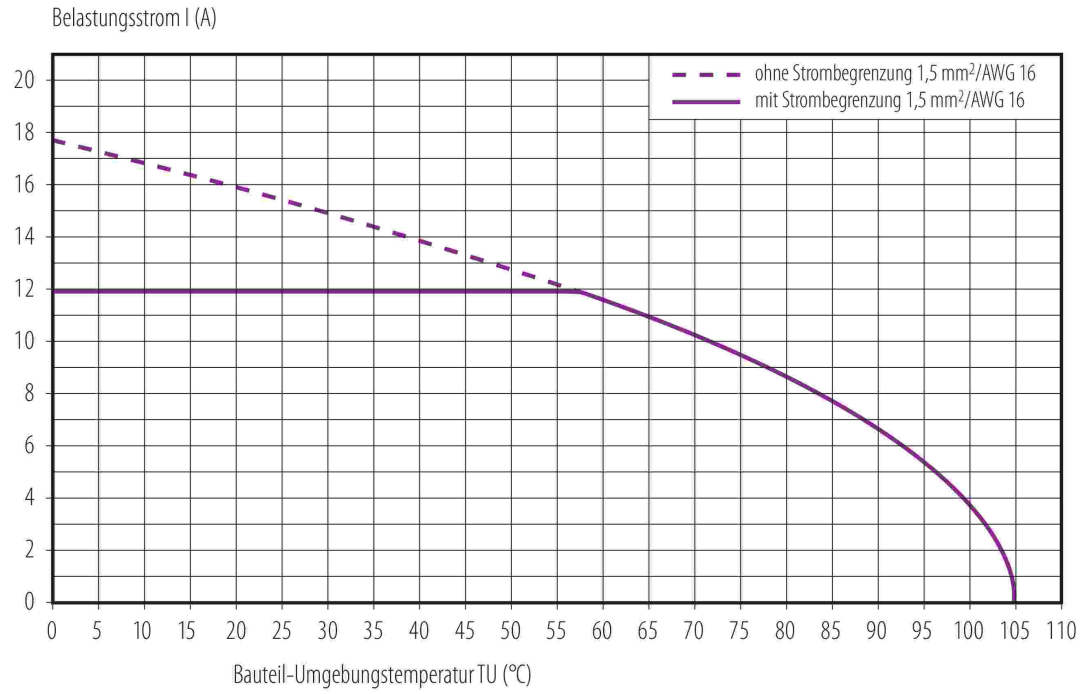
Assembly instructions / Panel cut-out



Tightening moment

Metal housing	1,25 Nm
Plastic housing	1,25 Nm

Derating curve



Product data sheet

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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.

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.

Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

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