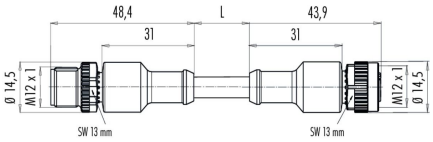
Product data sheet

Automation technology - sensors and actuators

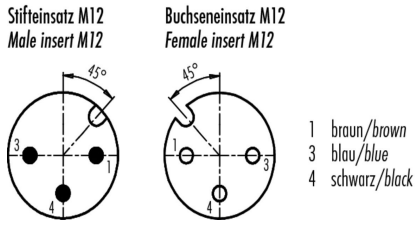
Product description	**M12-A female to male cable connector, Contacts: 3, not shielded, molded on cable, IP69K, UL listed, PUR black, 3 x 0.34 mm²**
Area	**M12-A series 763**
Order number	**77 3430 3429 50003-XXXX**

Illustration

Scale drawing



Contact arrangement (Plug-in side)



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	female cable connector
Connector locking system	screw
Termination	moulded on cable
Wire gauge (mm)	0.34 mm²
Wire gauge (AWG)	22
Upper limit temperature	90 °C
Lower limit temperature	– 25 °C
Customs tariff number	85444290
Packaging Unit	1

Cable data

Cable length	m
Sheath material	PUR
Single-lead insulation	PP
Halogen free	Yes
Single-lead structure	42 x 0,1 mm
Cable diameter	4.3 mm
Cable color	black
Conductor resistance	60 Ω/Km
Temperature range, moving cable, °C from	- 25 °C
Temperature range, moving cable, °C to	90 °C
Temperature range, fixed cable, °C from	-50 °C
Temperature range, fixed cable, °C to	90 °C
Bending radius, fixed cable	≥ 5 x Ø
Bending radius, moving cable	≥ 10 x Ø
Approval 1	UL listed
UL style 1	AWM20549

Electrical values

Rated current (40 °C)	4 A
Rated voltage	250 V
Rated impulse voltage	2500 V
Pollution degree	3
Overvoltage category	II
Insulating material group	II
Insulation resistance	≥ 10^{10} Ω
EMC compliance	not shielded
Degree of protection	IP69K
Mechanical operation	> 100 Mating cycles

Material

Contact material	CuSn (bronze)
Contact plating	Au (gold)
Contact body material	PUR
Housing material	PUR
Locking material	Zinc die-cast nickel-plated

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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.
To lock the cable connector to the equipment connector, the threaded ring is tightened until it is 'finger-tight' (approx. 60 cNm).