# Product data sheet Automation technology - sensors and actuators



Product description

M12-A connection cable male cable connector - female cable connector, Contacts: 5, unshielded, moulded cable, IP69K, UL, PUR black, 5 x 0.34 mm<sup>2</sup>, 0,3 m

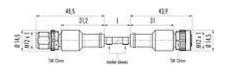
Area Part no. M12-A series 763 77 3430 3429 50005-0030

## Illustration

Scale drawing

# Contact arrangement (Plug-in side)











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

4 schworz/black 5 grau/grey

## **Technical data**

### **General features**

Part no.	77 3430 3429 50005-0030	
Connector design	connection cable male cable connector - female cable connector	
Cable length	0,3 m	
Version	connecting cable	
Connector locking system	screw	
Termination	moulded cable	
Degree of protection	ІРб9К	
Cross-sectional area	0.34 mm² / AWG 22	
Temperature range from/to	-25 °C / 90 °C	
Mechanical operation	> 100 Mating cycles	
Weight (g)	39.00	
Customs tariff number	85444290	

### **Electrical parameters**

Rated voltage	250 V
Rated impulse voltage	2500 V
Rated current (40 °C)	4,0 A
Pollution degree	3
Overvoltage category	Ш
Insulating material group	II
EMC compliance	unshielded



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#### Material

Contact material CuZr	
Contact material	uZn (brass)
Contact plating Au (	u (gold)
REACH SVHC Non-	one (No pollutants)
SCIP number SCIP	CIP-number not available

### Authorization/approvals

Approvals

UL

## Cable data - Structure of the cable

Cable diameter	5.0 mm
Cross section	5 x 0.34 mm <sup>2</sup>
Sheath material	PUR
Single-lead insulation	PP9Y halogen-free
Single-lead structure	42 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	>5 million
Permitted acceleration	5 m/s <sup>2</sup>
Travel speed	≤ 200 m/min (5 m horizontal distance)

## 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



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## **General Disclaim Notice**

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.

The user must take suitable safety precautions to ensure that the connector cannot be accidentally disconnected.

Plug connectors with enclosure protection IP 67 and IP 68 are not suitable for use under water. 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).

