

# Product data sheet

## Miniature connectors

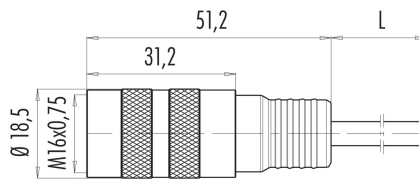


Product description	M16 IP67 female cable connector, Contacts: 12, unshielded, moulded cable, IP67, PUR black, 12 x 0.25 mm <sup>2</sup> , 2 m
Area	M16 IP67 series 425
Part no.	79 6030 20 12

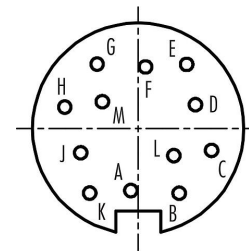
### Illustration



### Scale drawing



### Contact arrangement (Plug-in side)



- A white
- B brown
- C green
- D yellow
- E grey
- F pink
- G blue
- H red
- J black
- K purple
- L grey/pink
- M red/blue

## Technical data

### General features

Part no.	79 6030 20 12
Connector design	female cable connector
Cable length	2 m
Version	female straight
Connector locking system	screw
Termination	moulded cable
Degree of protection	IP67
Cross-sectional area	0.25 mm <sup>2</sup> / AWG 24
Temperature range from/to	-25 °C / 70 °C
Mechanical operation	> 500 Mating cycles
Weight (g)	155.00
Customs tariff number	85444290

### Electrical parameters

Rated voltage	60 V
Rated impulse voltage	500 V
Rated current (40 °C)	3,0 A
Insulation resistance	≥ 10 <sup>10</sup> Ω
Pollution degree	1
Overvoltage category	I
Insulating material group	III
EMC compliance	unshielded

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### Material

Housing material	PUR
Contact body material	PBT (UL94 V-0)
Contact material	CuSn (bronze)
Contact plating	Au (gold)
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	SCIP-number not available

### Classifications

eCl@ss 11.1	27-06-03-11
ETIM 7.0	EC001855

### Declarations of conformity

Low Voltage Directive	2014/35/EU (EN 60204-1:2018;EN 60529:1991)
RoHS Directive	2011/65/EU (EN 50581:2012)

### Cable data - Structure of the cable

Cable diameter	6.5 mm
Cross section	12 x 0.25 mm <sup>2</sup>
Sheath material	PUR
Single-lead insulation	PP9Y halogen-free
Single-lead structure	14 x 0.15 mm
Cable color	black

### Cable data - Electrical properties

Conductor resistance	79 Ω/Km (20°C)
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### Cable data - Mechanical properties

Bending radius, fixed cable	≥ 5 x Ø
Bending radius, moving cable	≥ 10 x Ø
Bending cycles	>2 million
Travel distance, horizontal	5 m/s <sup>2</sup> -> 5 m
Travel distance, vertical	5 m/s <sup>2</sup> -> 2 m
Travel speed	≤ 200 m/min (5 m horizontal distance)

### Cable data - Thermal properties

Temperature range cable in move from/to	-25 °C / 80 °C
Temperature range cable fixed from/to	-50 °C / 80 °C

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### Cable data - Other features

Halogen free	Yes
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### **Security notices**

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.

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 50 cNm).