

# Product data sheet

## Miniature connectors

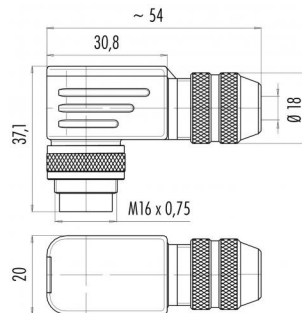


Product description	<b>M16 IP67 male angled connector, Contacts: 16, 6.0 - 8.0 mm, shieldable, solder, IP67, UL</b>
Area	<b>M16 IP67 series 423</b>
Order number	<b>99 5455 75 16</b>

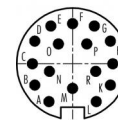
### Illustration



### Scale drawing



### Contact arrangement (Plug-in side)



	X	Y
A	-2,50	-4,00
B	-4,00	-2,25
C	-4,25	0,00
D	-4,00	2,40
E	-2,30	4,00
F	0,00	4,25
G	2,30	4,00
H	4,00	2,40
I	4,25	0,00
K	4,00	-2,25
L	2,50	-4,00
M	0,00	-2,60
N	-2,45	-0,80
O	-1,50	2,10
P	1,50	2,10
R	2,40	-0,80

You can find the component part drawing and assembly instructions on the next page.

## Technical data

### General values

Connector design	male angled connector
Connector locking system	screw
Termination	solder
Wire gauge (mm)	max. 0.25 mm <sup>2</sup>
Wire gauge (AWG)	max. 24
Cable outlet	6.0 - 8.0 mm
Upper limit temperature	95 °C
Lower limit temperature	- 30 °C
Customs tariff number	85369010
Packaging Unit	20

### Cable data

Approval 1	UL
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### Electrical values

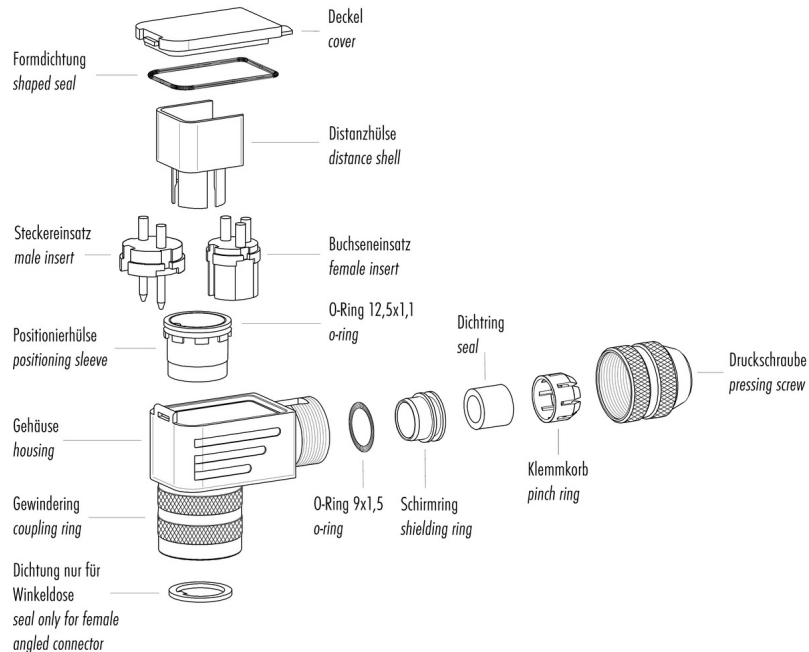
Rated current (40 °C)	3 A
Rated voltage	60 V
Rated impulse voltage	500 V
Pollution degree	I
Overvoltage category	III
Insulating material group	≥ 10 <sup>10</sup> Ω
Insulation resistance	shieldable
EMC compliance	IP67
Degree of protection	> 500 Mating cycles
Mechanical operation	

### Material

Contact material	CuZn (brass)
Contact plating	Au (gold)
Contact body material	PBT (UL94 V-0)
REACH SVHC	CAS 96-45-7
	(Imidazolidine-2-thione)
	CAS 7439-92-1 (Lead)

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### Component part drawing



### Assembly instructions / Panel cut-out

#### Winkelversion

1. Dichtungen montieren (3x).
2. Kabelteile auffädeln.
3. Kabel und Schirm abmanteln.
4. Litzen durch das Gehäuse fädeln.
5. Schirmring, Klemmkorb montieren.
6. Druckschraube leicht andrehen.
7. Litzen an Kontakteinsatz löten.
8. Verdrehhülse in Winkelstellung montieren.
9. Kontakteinsatz, Distanzhülse einsetzen.
10. Deckel einhängen.
11. Druckschraube festziehen (100 cNm).

#### Angled version

1. Assemble sealing rings (3x).
2. Bead cable parts.
3. Dismantle cable and shielding braid.
4. Push single wires through housing.
5. Mount shielding ring and pinch ring.
6. Slightly fix pressing screw.
7. Solder wires to insert.
8. Mount positioning sleeve in angled position.
9. Put in insert and distance sleeve.
10. Mount lid.
11. Fix pressing screw (100 cNm).



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## Security notices

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. 50 cNm).