

Product data sheet

Miniature connectors



Product description **M16 IP40 male angled connector, Contacts: 12, 6.0 - 8.0 mm, shieldable, solder, IP40**

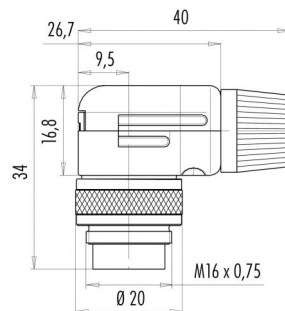
Area **M16 IP40 series 682**

Order number **99 0147 12 12**

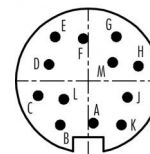
Illustration



Scale drawing



Contact arrangement (Plug-in side)



| | X | Y |
|---|-------|-------|
| A | 0,41 | -3,45 |
| B | -2,29 | -3,61 |
| C | -4,10 | -1,21 |
| D | -3,20 | 1,34 |
| E | -2,71 | 3,59 |
| F | -0,41 | 3,45 |
| G | 2,29 | 3,61 |
| H | 4,10 | 1,21 |
| J | 3,20 | -1,34 |
| K | 2,71 | -3,59 |
| L | -2,00 | -1,51 |
| M | 2,00 | 1,51 |

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 ² |
| Wire gauge (AWG) | max. 24 |
| Cable outlet | 6.0 - 8.0 mm |
| Upper limit temperature | 85 °C |
| Lower limit temperature | - 40 °C |
| Customs tariff number | 85369010 |
| Packaging Unit | 50 |

Electrical values

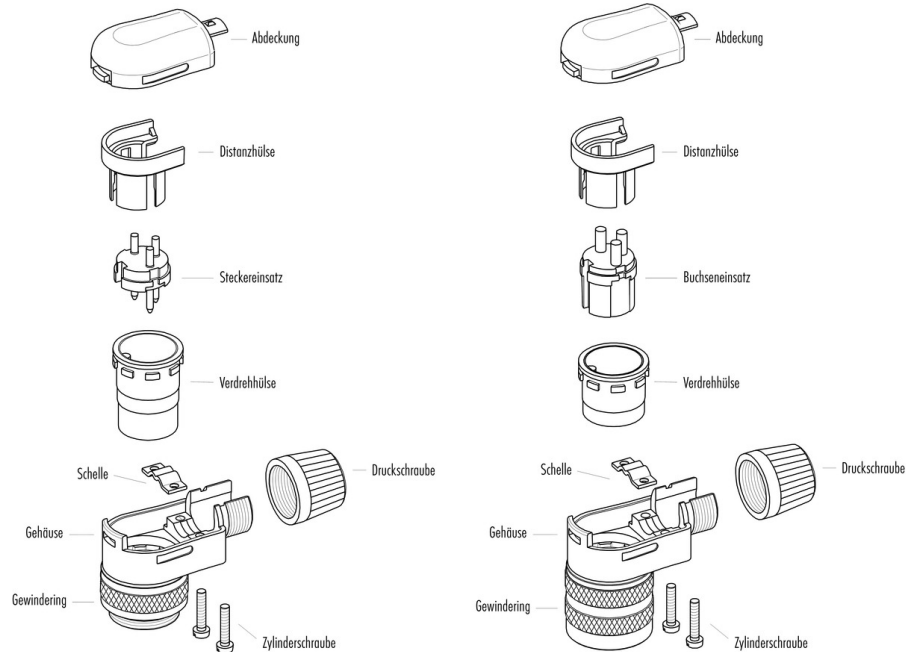
| | |
|---------------------------|----------------------|
| Rated current (40 °C) | 3 A |
| Rated voltage | 60 V |
| Rated impulse voltage | 500 V |
| Pollution degree | 1 |
| Overvoltage category | I |
| Insulating material group | III |
| Insulation resistance | ≥ 10 ¹⁰ Ω |
| EMC compliance | shieldable |
| Degree of protection | IP40 |
| Mechanical operation | > 1000 Mating cycles |

Material

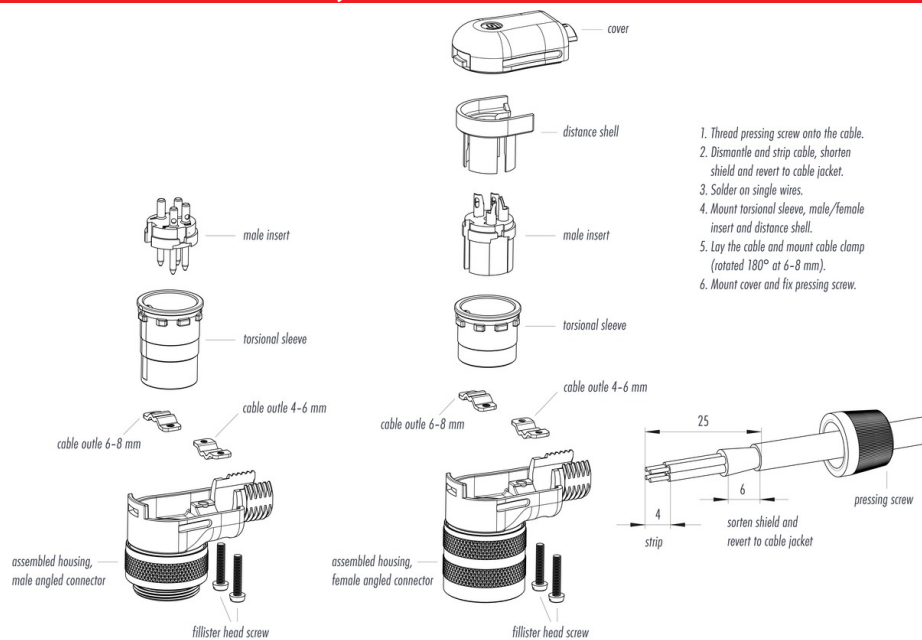
| | |
|-----------------------|-----------------------------|
| Contact material | CuZn (brass) |
| Contact plating | Au (gold) |
| Contact body material | PBT (UL94 V-0) |
| Housing material | Zinc die-cast nickel-plated |
| REACH SVHC | CAS 7439-92-1 (Lead) |

| | |
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Component part drawing



Assembly instructions / Panel cut-out



| | |
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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.

To lock the cable connector to the equipment connector, the threaded ring is tightened until it is 'finger-tight' (approx. 50 cNm).