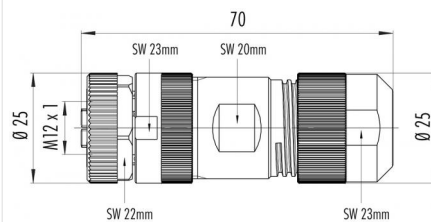


Product description	M12-L female cable connector, Contacts: 4+FE, 8.0 - 13.0 mm, not shielded, screw clamp, IP67, M12x1.0
Area	M12-L series 823
Order number	99 0640 29 05

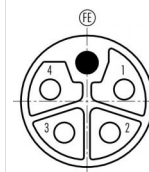
## Illustration



## Scale drawing



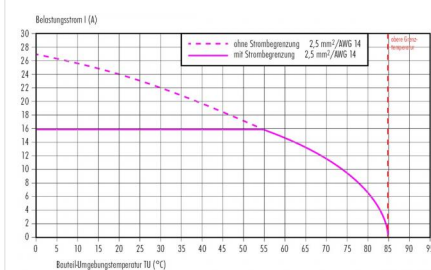
### Contact arrangement (Plug-in side)



	X	Y
1	2,80	0,91
2	1,73	-2,38
3	-1,73	-2,38
4	-2,80	0,91
FE	0,00	2,94

1	<i>brown</i>
2	<i>white</i>
3	<i>blue</i>
4	<i>black</i>
FE	<i>grey</i>

## Derating curve



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

## Technical data

## General values

Connector design	female cable connector
Connector locking system	screw
Termination	screw clamp
Wire gauge (mm)	max. 1.50 mm <sup>2</sup> with ferrule / max. 2.50 mm <sup>2</sup> without ferrule
Wire gauge (AWG)	max. 16 with ferrule / max. 14 without ferrule
Cable outlet	8.0 - 13.0 mm
Upper limit temperature	85 °C
Lower limit temperature	- 40 °C
Customs tariff number	85369010
Packaging Unit	40

## Electrical values

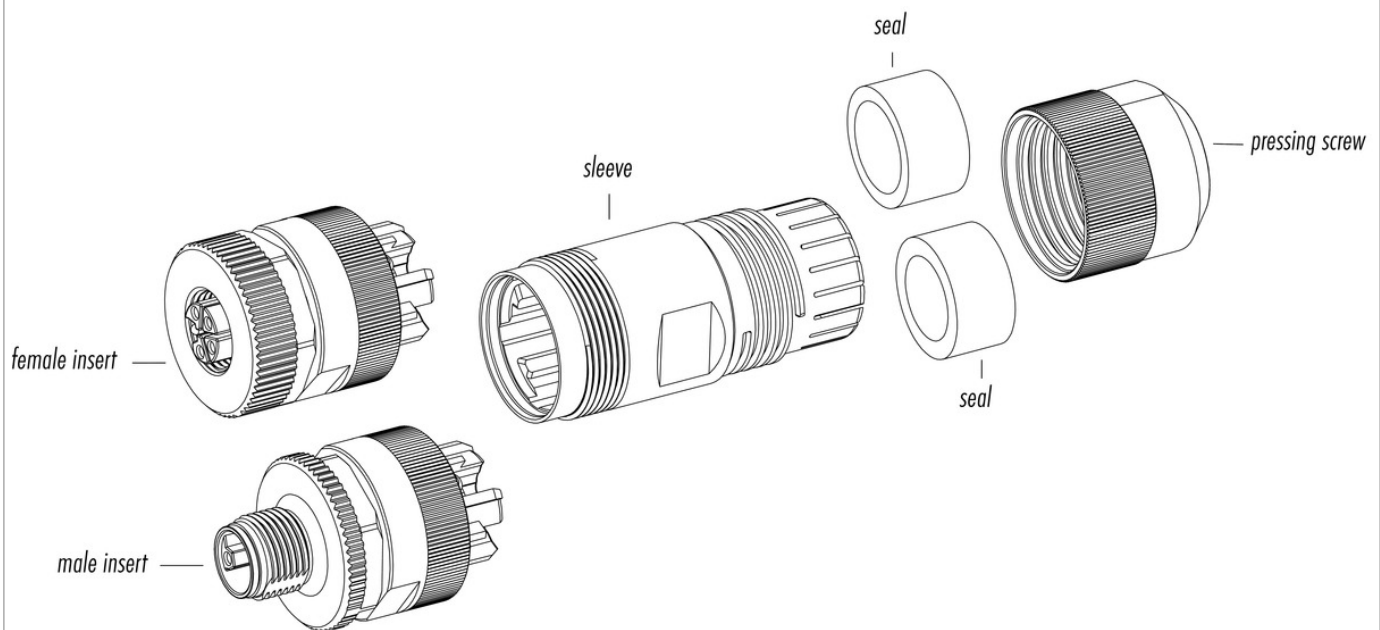
Rated current (40 °C)	16 A
Rated voltage	63 V
Rated impulse voltage UL	1500V
Rated impulse voltage	1500 V
Pollution degree	3
Overvoltage category	III
Insulating material group	I
Insulation resistance	> 10 <sup>10</sup> Ω
EMC compliance	not shielded
Degree of protection	IP67
Mechanical operation	> 100 Mating cycles

## Material

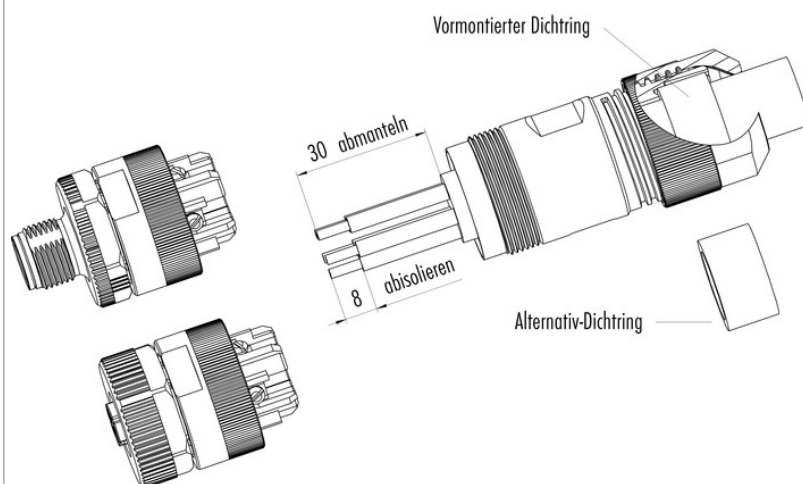
Contact material	CuZn (brass)
Contact plating	Au (gold)
Contact body material	PA (UL94 V-0)
Housing material	PA
REACH SVHC	CAS 7439-92-1 (Lead)

Product description	<b>M12-L female cable connector, Contacts: 4+FE, 8.0 - 13.0 mm, not shielded, screw clamp, IP67, M12x1.0</b>
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### Component part drawing



### Assembly instructions / Panel cut-out



1. Klemmschrauben herausdrehen, bis Bohrungen für Litzen völlig frei sind.
2. Optional:  
Bei Kabeldurchmesser über 10,5 mm den vormontierten Dichtring gegen beigelegten Alternativ-Dichtring tauschen.
3. Kupplungshülse mit Kabelklemmung auf Kabel schieben.
4. Kabel abmanteln.
5. Adern abisolieren und Litzen verdrehen.
6. Litzen anschrauben.
7. Verschraubung zwischen Kontakteinsatz und Kupplungshülse mit 1 bis 2 Tropfen Cyanacrylatkleber gegen unabsichtliches Lösen sichern, danach Kupplungshülse aufschrauben.
8. Druckschraube andrehen.

Product description	<b>M12-L female cable connector, Contacts: 4+FE, 8.0 - 13.0 mm, not shielded, screw clamp, IP67, M12x1.0</b>
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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).