

# Product data sheet

## Automation technology - Data transmission

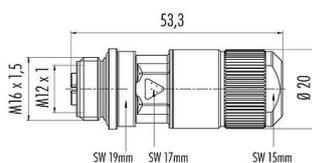


Product description	<b>M12 Female cable connector, Contacts: 8, 5.5-9.0 mm, shieldable, IDC, IP67</b>
Area	<b>M12-X</b>
Coding	<b>X-coded</b>
Series	<b>825</b>
Part no.	<b>99 3788 810 08</b>

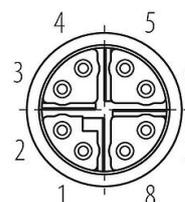
### Illustration



### Scale drawing



### Contact arrangement (Plug-in side)



- 1 white-orange
  - 2 orange
  - 3 white-green
  - 4 green
  - 5 white-brown
  - 6 brown
  - 7 white-blue
  - 8 blue
- shield on housing

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

### Technical data

#### General features

Part no.	<b>99 3788 810 08</b>
Connector design	Female cable connector
Type standard	DIN EN 61076-2-109
Coding	X-coded
Version	Connector socket straight
Connector locking system	screw
Termination	IDC
Degree of protection	IP67
Connection cross-section	AWG 27-22
Cable outlet	5.5-9.0 mm
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	48.25
Customs tariff number	85369010
Country of Origin	DE

#### Electrical parameters

Rated voltage	50 V (AC) / 60 V (DC)
Rated impulse voltage	800 V
Rated current	0.5 A
Pollution degree	3
Transmission rate	CAT 6A
Overvoltage category	II
Insulating material group	II

# Product data sheet

## Automation technology - Data transmission



Product description	<b>M12 Female cable connector, Contacts: 8, 5.5-9.0 mm, shieldable, IDC, IP67</b>
Area	<b>M12-X</b>
Coding	<b>X-coded</b>
Series	<b>825</b>
Part no.	<b>99 3788 810 08</b>

EMC compliance	shieldable
Shield connection	Shield clamping

### Material

Housing material	Brass nickel-plated / Zinc die-cast nickel-plated
Contact body material	PA
Contact material	CuZn (brass)
Contact plating	Au (gold)
Locking material	Zinc die-cast nickel-plated
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	acca9673-7397-4d23-bcde-4f7f21176af0

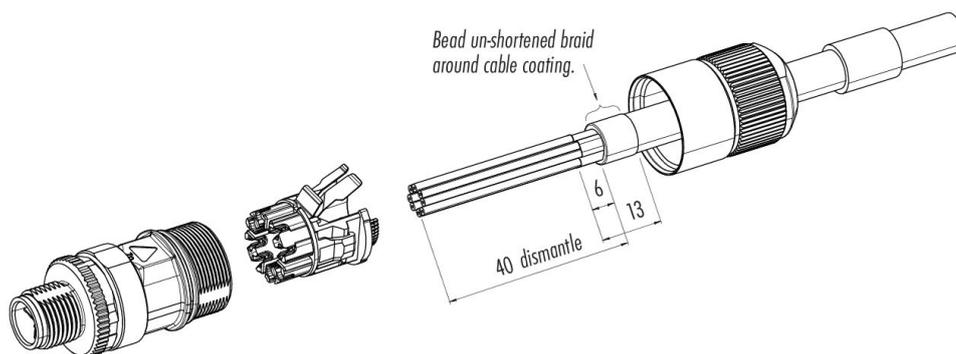
### Classifications

eCl@ss 11.1	27-44-01-02
ETIM 9.0	EC002635

### Declarations of conformity

Low Voltage Directive	2014/35/EU (EN 60529:1991   2014/35/EU;EN 60204-1:2018)
-----------------------	---

### Assembly instructions

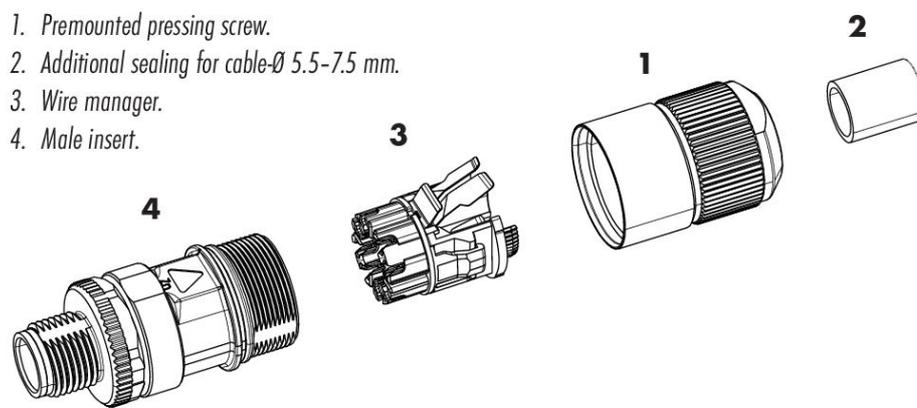


# Product data sheet

## Automation technology - Data transmission

Product description	<b>M12 Female cable connector, Contacts: 8, 5.5-9.0 mm, shieldable, IDC, IP67</b>
Area	<b>M12-X</b>
Coding	<b>X-coded</b>
Series	<b>825</b>
Part no.	<b>99 3788 810 08</b>

### Component part drawing



# Product data sheet

## Automation technology - Data transmission



Product description	<b>M12 Female cable connector, Contacts: 8, 5.5-9.0 mm, shieldable, IDC, IP67</b>
Area	<b>M12-X</b>
Coding	<b>X-coded</b>
Series	<b>825</b>
Part no.	<b>99 3788 810 08</b>

### 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.

To protect against unintentional opening of the connector, the thread between the housing and the connector head must be secured with a suitable cyanoacrylate adhesive when used in circuits with voltages dangerous to the touch. This does not apply to connectors used in SELV and PELV circuits according to IEC 61140 (EN 61140, VDE 0140-1).

Connectors which are used in circuits with voltages dangerous to the touch may only be installed and used by, or under the supervision of, persons with electrical engineering training, taking into account the applicable regulations and standards.

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

Plug connectors with enclosure protection IP67 and IP68 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.

Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 60 cNm).