

Product data sheet

Automation technology - Data transmission

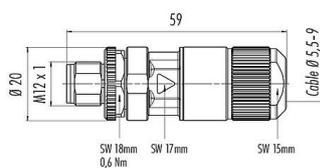


Product description	M12 Male cable connector, Contacts: 8, 5.5-9.0 mm, shieldable, IDC, IP67
Area	M12-X
Coding	X-coded
Series	825
Part no.	99 3787 810 08

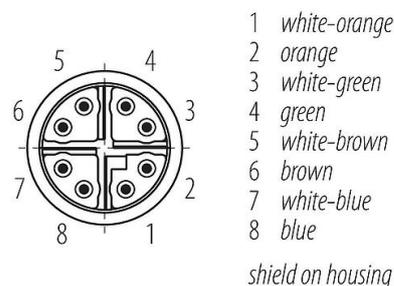
Illustration



Scale drawing



Contact arrangement (Plug-in side)



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

Technical data

General features

Part no.	99 3787 810 08
Connector design	Male cable connector
Type standard	DIN EN 61076-2-109
Coding	X-coded
Version	Connector pin 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)	76.10
Customs tariff number	85366990
Country of Origin	TW

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

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EMC compliance	shieldable
Shield connection	Shield clamping

Material

Housing material	Zinc die-cast nickel-plated
Contact body material	PA
Contact material	CuSn (bronze)
Contact plating	Au (gold)
Locking material	Zinc die-cast nickel-plated
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	86a6107d-5128-4071-bef2-5afd659c3b4f

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)
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Assembly instructions

M12x1 Cable plug X-coded 8 pol. Cat.6A Montagehinweis / Mounting information

1 Lieferumfang / scope of delivery
 Kabeldichtung vormontiert für Kabel Ø > 7.7-9.0 mm
 cable sealing assembled for cable Ø > 0.3-0.35 inch

2 Kabelverschraubung aufschieben
 slide cable gland onto cable

3 SIFT
 min. 40 mm
 min. 1.6 inch!
 Abisolierlänge stripping length
 Geflechtschirm nach hinten legen
 fold braid shield backwards

4 Kabelseite 1_ 0.24 inch ~ 6 mm cable end 1
 ~ 13 mm ~ 0.5 inch
 Kabelseite 2 ~ 0.24 inch ~ 6 mm cable end 2

5 Adempaare in die Adernvorsortierung einführen
 insert pairs of wires into wire manager

6 Schirmfeder betätigen
 press down shield cover
 Geflechtschirm darf nicht überstehen
 braid shield must not protrude

7 Adempaare entdrillen
 untwist pairs of wires

8 Adern in die Adernvorsortierung einlegen
 insert wires into wire manager

9 Adern bündig abschneiden, max. 0.3 mm überstehend
 Schirmkreuz freihalten
 cut wires flush protruding max. 0.01 inch
 keep shield cross clear

10 X-kodiert / X-coded

Anschluss / Connector	
Farbcode / Colour code	Pin Nr./No.
W - O	1
O	2
W - G	3
G	4
W - BR	5
BR	6
W - BL	7
BL	8

11 Adernvorsortierung ansetzen
 locate wire manager
 Auf Lage achten
 pay attention to position

12 Adernvorsortierung einschieben
 insert wire manager into plug body
 Kabelverschraubung ansetzen
 locate cable gland

14 Kabeldichtung bündig einschleiben
 slide flush in cable sealing flush

15 Kabelverschraubung mit Gabelschlüssel SW17 und SW15 bis zum Anschlag (ca. 5 Nm) auf den Steckerkörper festdrehen
 tighten cable gland with spanner 17AF and 15AF (approx. 5Nm) until stop

16 Drehmomentschlüssel SW18 / 18AF 0,6 Nm 07 0079 000
 torque wrench

Demontage / Disassembly

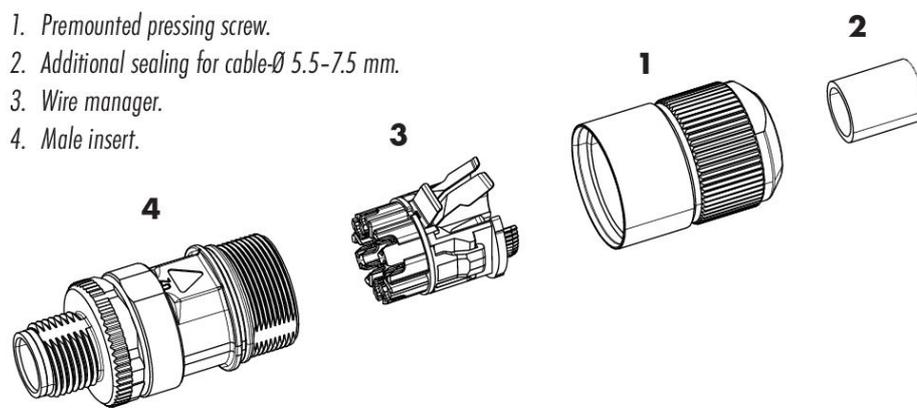
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Component part drawing



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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).