

# VS-08-M12MR-10G-P SCO - Data connector



1417443

<https://www.phoenixcontact.com/us/products/1417443>

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Data connector, Ethernet CAT6<sub>A</sub> (10 Gbps), 8-position, shielded, Plug angled M12 SPEEDCON, coding: X, Piercecon® fast connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

## Your advantages

- Safe use in the field, thanks to a high degree of protection
- Save time, thanks to installation with SPEEDCON fast locking system
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

## Commercial data

Item number	1417443
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF32
Product key	AF2CHJ
GTIN	4046356530712
Weight per piece (including packing)	35.5 g
Weight per piece (excluding packing)	29.34 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

#### Assembly note

**NOTE:** Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.

### Mounting

#### Assembly note

The connector pin assignment can be rotated 90° to the cable outlet

### Product properties

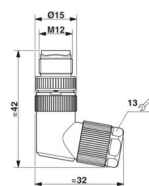
Product type	Circular connector (cable-side)
Application	Data
Sensor type	Ethernet
Number of positions	8
No. of cable outlets	1
Shielded	yes
Coding	X
Cable outlet	angled

#### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Dimensions

#### Dimensional drawing



Length	42 mm
Wrench size, union nut	13 mm

#### External dimensions

Outside diameter	4 mm ... 8 mm
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#### Housing

Diameter housing	15 mm
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### Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	Zinc die-cast, nickel-plated

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Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PP
Material for screw connection	Zinc die-cast, nickel-plated

## Connection data

### Conductor connection

Connection method	Piercecon® fast connection
Connection cross section	0.14 mm² ... 0.14 mm² (flexible)
Connection cross section AWG	26 (flexible)
Tightening torque	0.4 Nm (M12 knurl)
	2 Nm (Screw plug insert with sleeve housing as far it will go)
	1 Nm (Pressure nut with coupling sleeve)

## Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 10 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	48 V AC
	60 V DC
Nominal current I <sub>N</sub>	0.5 A (30 W)
Transmission speed	10 Gbps

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 100
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## Connector

### Connection 1

Head design	Plug
Head cable outlet	angled
Head thread type	M12
Head locking type	SPEEDCON
Coding	X

## Cable/line

Signal type/category	Ethernet CAT6 <sub>A</sub> (IEC 11801), 10 Gbps
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C (Plug / socket)

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## Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-109

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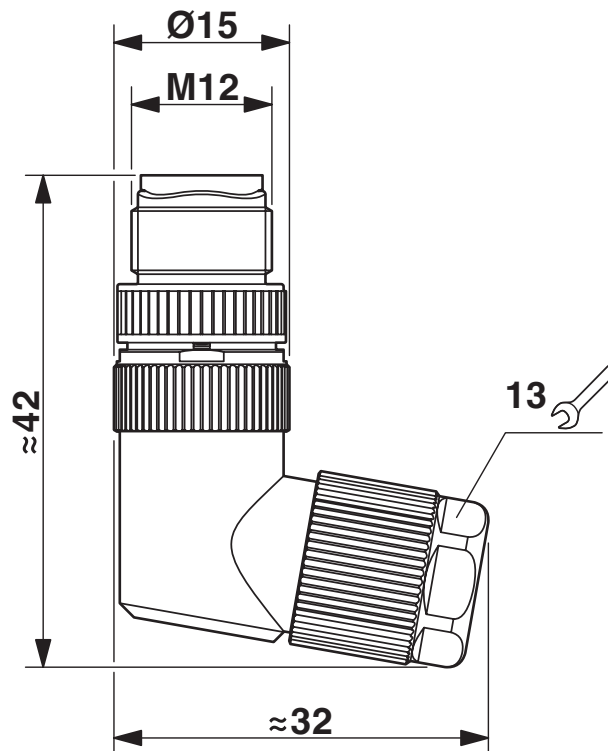
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## Drawings

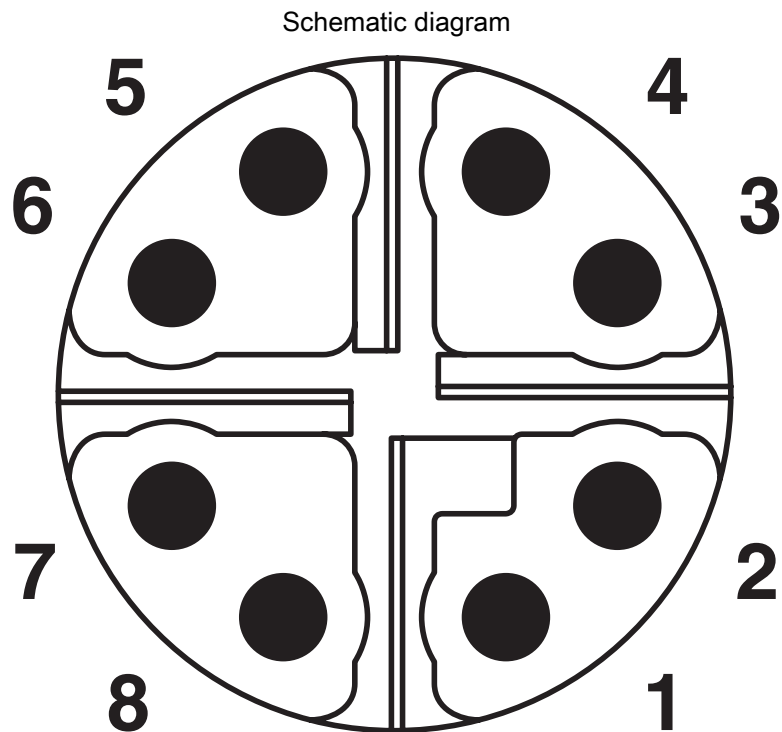
Dimensional drawing



Dimens. drawing: M12 connectors

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Pin assignment M12 plug, 8-pos., view plug side

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## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

ETIM 9.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%
EF3.0 Climate Change	
CO2e kg	2.308 kg CO2e