

# CONNECTORS AND CABLE SETS

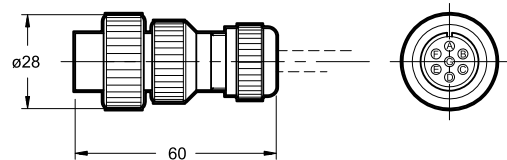
## FOR VALVES WITH INTEGRATED ELECTRONICS

### MATING CONNECTORS FOR MAIN CONNECTION

#### 1 - FOR K11 CONNECTION - 6 PIN+PE

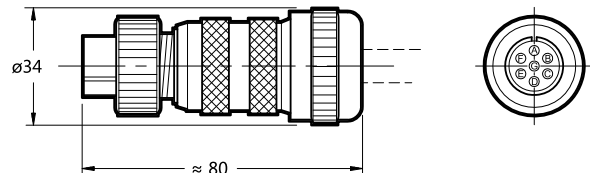
**name: EX7S/L/10**                      **code: 3890000003**

metal connector 6-poles + PE, female, IP67  
 standard: MIL-C-5015-G (EN 175201-804)  
 suitable cables: Ø11 mm; up to 20 metres length  
 wire sizes: cross section 1 mm<sup>2</sup>  
 contacts: either solder or crimp  
 shield arranged: yes



**name: EX7S/L/10/4015**                      **code: 3890000012**

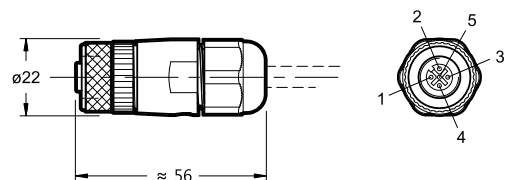
metal connector 6-poles + PE, female, IP67  
 standard: MIL-C-5015-G (EN 175201-804)  
 suitable cables: Ø18 mm, up to 40 metres length  
 conductor size: from 0.75 to 1.5 mm<sup>2</sup>  
 contacts: crimp contacts (included)  
 shield arranged: yes



#### 2 - FOR K12 CONNECTION - M12 5 PIN

**name: EC5S/M12L/10**                      **code: 3491001001**

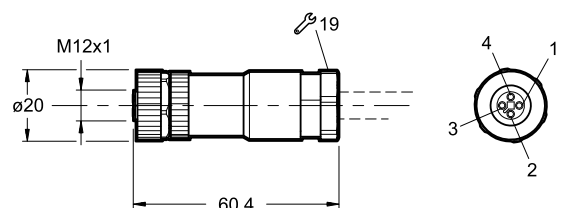
M12 connector, 5-poles, code A, female, IP65/67  
 glass filled plastic  
 standard: IEC 61076-2-101  
 suitable cables: Ø9 mm, up to 20 metres length  
 conductor size: 0.75 mm<sup>2</sup>  
 contacts: screw contacts  
 shield: yes



#### 3 - FOR K12T CONNECTION - M12 4 PIN

**name: EX4S/M12TL/10**                      **code: 3890000014**

M12 connector, 4-poles, code T, female, IP67  
 glass filled plastic  
 standard: IEC 61076-2-111  
 suitable cables: Ø8...10 mm, up to 15 metres length  
 conductor size: from 0.75 to 1.5 mm<sup>2</sup>  
 contacts: screw contacts  
 shield: no



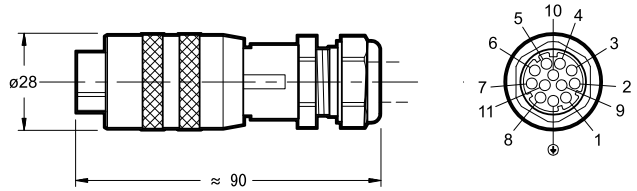


#### 4 - FOR K16 CONNECTION - 11 PIN+PE

**name:** EX12S/L/10      **code:** 3890000004

Metal connector 11 poles + PE, shielded

- standard:      DIN 43651 (EN 175201-804)
- suitable cables:    Ø15 mm up to 10 metres length
- conductor size:    max 0.5 mm<sup>2</sup>
- contacts:      crimp contacts

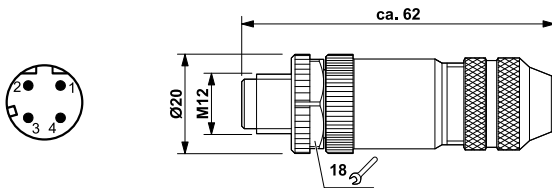


#### 5 - MATING CONNECTORS FOR FIELDBUS COMMUNICATION

We offer metal connectors IEC 61076-2-101, shielded, with screw connection, IP 67, for fieldbus communication EtherCAT, EtherNet/IP, PROFINET and POWERLINK.

**name:** EX4P/M12DL/10      **code:** 3890000009

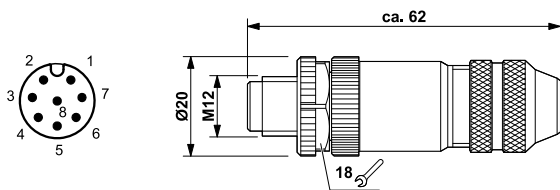
connector M12 D 4 pin; external cable diameter 4 ÷ 6 mm  
(X2, X3) male



#### 6 - TRANSDUCER MATING CONNECTORS

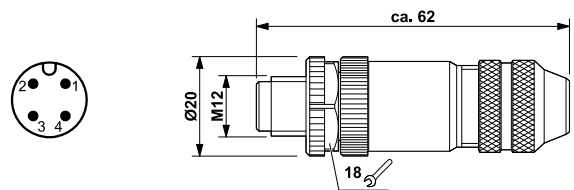
**name:** EX8P/M12AL/10      **code:** 3890000011

connector for digital sensor type SSI / Encoder M12 A 8 pin  
external cable diameter 6 ÷ 8 mm  
(X7) male



**name:** EX4P/M12AL/10      **code:** 3890000010

connector for analogue sensor M12 A 4 pin  
external cable diameter 4 ÷ 6 mm  
(X4) male



#### 7 - PROTECTIVE CAPS FOR M12 CONNECTIONS

Using protective caps is recommended to safeguard unused M12 electrical connectors and to ensure that the valves maintain their specified IP protection rating..

- cap for female connection      code **0672218**
- cap for male connection      code **0238914**

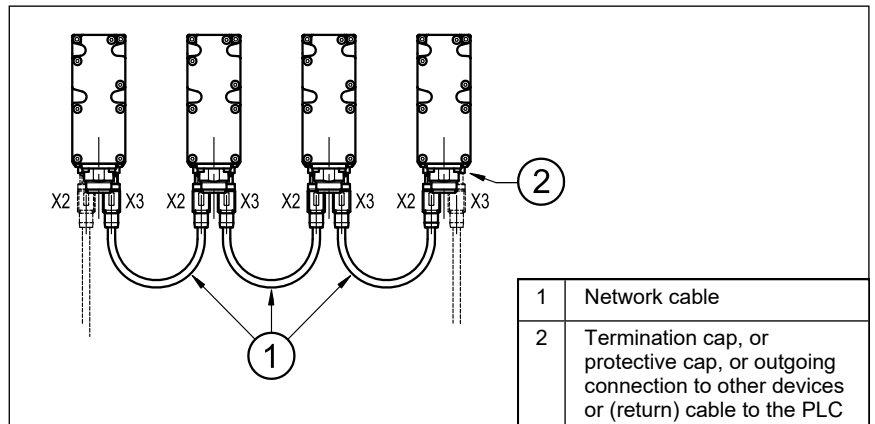


## 8 - CABLE SETS

We can supply cable sets for fieldbus communication connections X3 to X2 as well as sensor cables for the X7 and X4 ports, upon request.

All cables are PUR halogen-free.

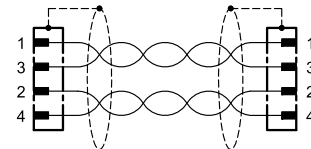
These molded cables are equipped with 'speed-connect' connectors which allow for a smaller overall size conventional connectors.



### 8.1 - Fieldbus cables X3 to X2

Fieldbus type	Cable description
<b>Ethernet:</b>	Network cable, Ethernet CAT5 (100 Mbps), shielded.
EtherCAT	cable length: 0.5 m
EtherNet/IP	Plug straight M12 code D - plug straight M12 code D,
PROFINET	IP67
POWERLINK	ambient temperature: -25 ÷ 85 °C

#### Circuit diagram



code: 3890001003

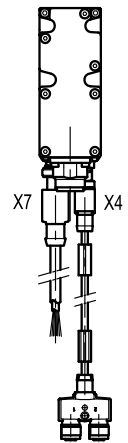
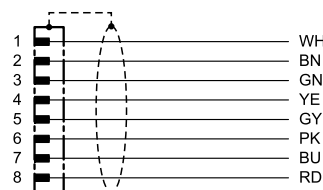
### 8.2 - Sensor / actuator cables

Sensor type	Cable description
Analogue (X4)	Sensor/actuator cable
code: 3890001004	cable length: 0.6 m
	Plug straight M12 code A - double socket straight M12 code A
	IP65/IP67
	ambient temperature: -25 ÷ 90 °C

#### Circuit diagram



Digital SSI / Encoder (X7)	Sensor/actuator cable, shielded,
code: 3890001005	cable length: 3 m
	Plug straight M12 code A - free cable end, unwired
	ambient temperature: -25 ÷ 90 °C





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