

CONNECTORS AND CABLES 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

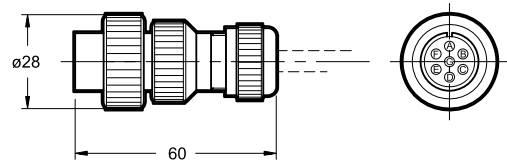
standard: MIL-C-5015-G (EN 175201-804)

suitable cables: Ø11 mm; up to 20 metres length

wire sizes: cross section 1 mm²

contacts: either solders or crimp

shield arranged: yes



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

metal connector 6-poles + PE, female, IP67

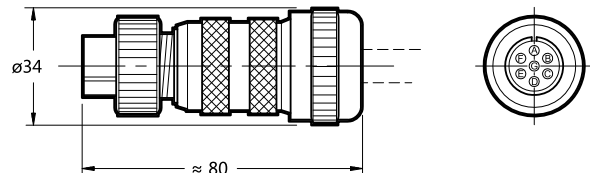
standard: MIL-C-5015-G (EN 175201-804)

suitable cables: Ø18 mm, up to 40 metres length

conductor size: from 0.75 to 1.5 mm²

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

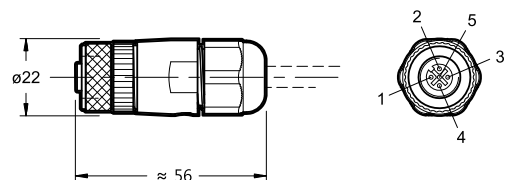
standard: IEC 61076-2-101

suitable cables: Ø9 mm, up to 20 metres length

conductor size: 0.75 mm²

contacts: screw contacts

shield: yes



3 - FOR K16 CONNECTION - 11 PIN+PE

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

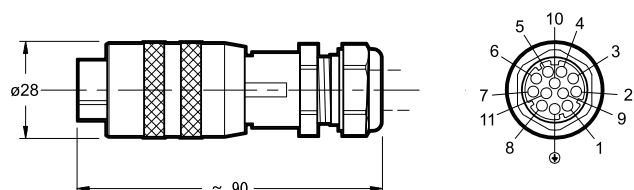
Metal connector 11 poles + PE, shielded

standard: DIN 43651 (EN 175201-804)

suitable cables: Ø15 mm up to 10 metres length

conductor size: max 0.5 mm²

contacts: crimp contacts





4 - MATING CONNECTORS FOR FIELDBUS COMMUNICATION

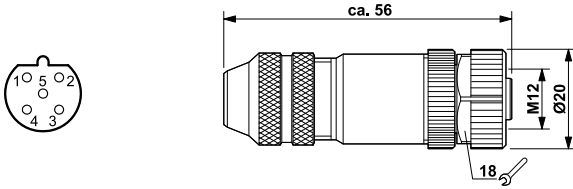
We offer metal connectors IEC 61076-2-101, shielded, with screw connection, IP 67

4.2 - Profibus

name: **EX5S/M12BL/10**

code **3890000005**

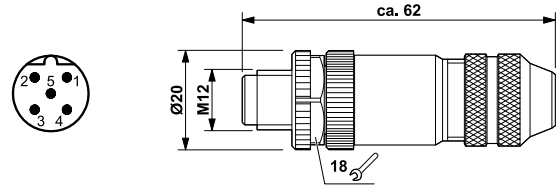
connector M12 B 5 pin; external cable diameter 6.5 + 8.5 mm
(X2) female



name: **EX5P/M12BL/10**

code **3890000006**

connector M12 B 5 pin; external cable diameter 6.5 + 8.5 mm
(X3) male

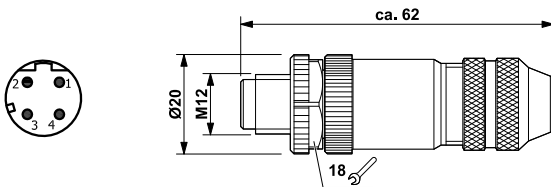


4.3 - EtherCAT, Ethernet/IP, Profinet, Powerlink

name: **EX4P/M12DL/10**

code **3890000009**

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

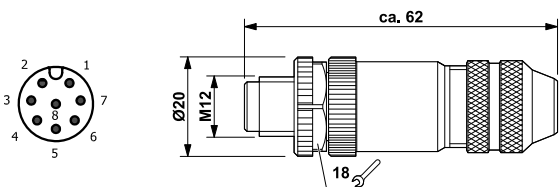


5 - TRANSDUCER MATING CONNECTORS

name: **EX8P/M12AL/10**

code **3890000011**

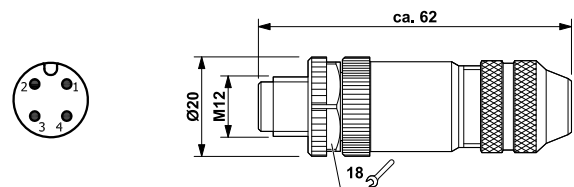
connector for digital sensor type SSI / Encoder M12 A 8 pin
external cable diameter 6 + 8 mm
(X7) male



name: **EX4P/M12AL/10**

code **3890000010**

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



6 - PROTECTIVE CAPS FOR M12 CONNECTIONS

The use of caps is recommended to protect unused M12 electrical connections and to guarantee the declared IP degree of the valves.

cap for female connection code **0672218**

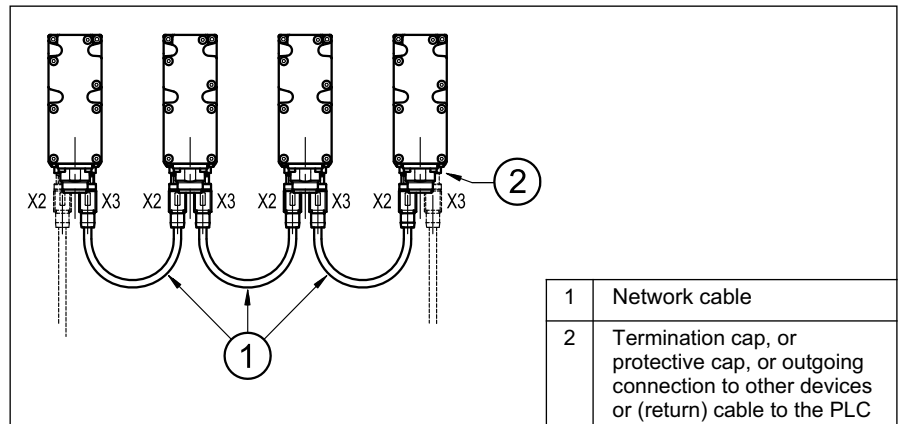
cap for male connection code **0238914**

7 - CABLES SETS

We can supply cable sets for fieldbus communication connections X3 to X2 and sensor cables for X7 and X4 ports on request.

All cables are PUR halogen-free.

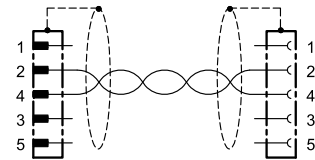
These molded cables are equipped with 'speed connect' connectors that allow a smaller overall than conventional connectors.



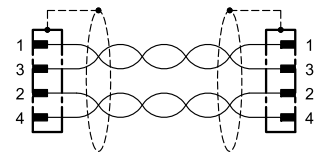
7.1 - Fieldbus cables X3 to X2

Fieldbus type	Cable description
ProfiBus DP code: 3890001002	Bus system cable, PROFIBUS (12 Mbps), shielded cable length: 0.5 m Plug straight M12 code B - Socket straight M12 code B IP65 / IP67 ambient temperature: -25 + 90 °C

Circuit diagram



Ethernet: EtherCAT Ethernet/IP Profinet Powerlink	Network cable, Ethernet CAT5 (100 Mbps), shielded. cable length: 0.5 m Plug straight M12 code D - plug straight M12 code D, IP67 ambient temperature: -25 + 85 °C
--	---

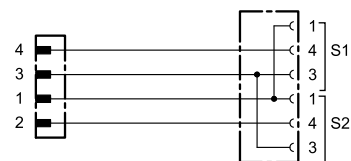


code: 3890001003

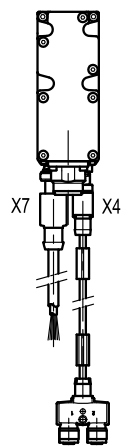
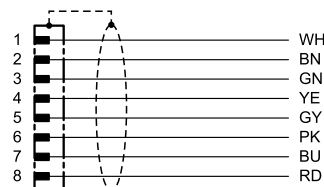
7.2 - Sensor / actuator cables

Sensor type	Cable description
Analogue (X4) code: 3890001004	Sensor/actuator cable 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) code: 3890001005	Sensor/actuator cable, shielded, cable length: 3 m Plug straight M12 code A - free cable end, unwired ambient temperature: -25 + 90 °C
--	---





DIPLOMATIC MS S.p.A.

via M. Re Depaolini 24 • 20015 PARABIAGO (MI) • ITALY
tel. +39 0331.895.111 • www.diplomatic.com • e-mail: sales.exp@diplomatic.com