



**Input, output and analogue modules
with IP67 ingress protection**

Reduced cabling and installation costs

256 I/O per node

Single channel diagnostics

IP67 Ingress protection

Fully configurable I/O points

Compact, robust construction



Technical data

Fieldbus nodes, input and output modules

Operating temperature:
+0°C to +50°C

Storage temperature:
-20°C to +75°C

Consult our Technical Service for use below +2°C.

Electromagnetic compatibility:
EN 50081, EN 50082

Voltage tolerance:
IEC 60664-1

Isolation resistance:
IEC 60512-2

Conductivity:
≤ 5 m Ω

Vibration protection:
EN60068-2-6 15g

Shock protection:
EN60068-2-27 50g/ 11ms

Degree of protection:
IP 67 to EN 60629

Materials

Housing: PBT 30% Glass fibre (UL94, V0)

M12 Contact carrier: SPS (UL94 V0)

7/8" Contact carrier: TPE PA 6.6 (UL94 V2)

Contact: CuZn, nickel undercoated and gold plated

M12 O-ring: Viton

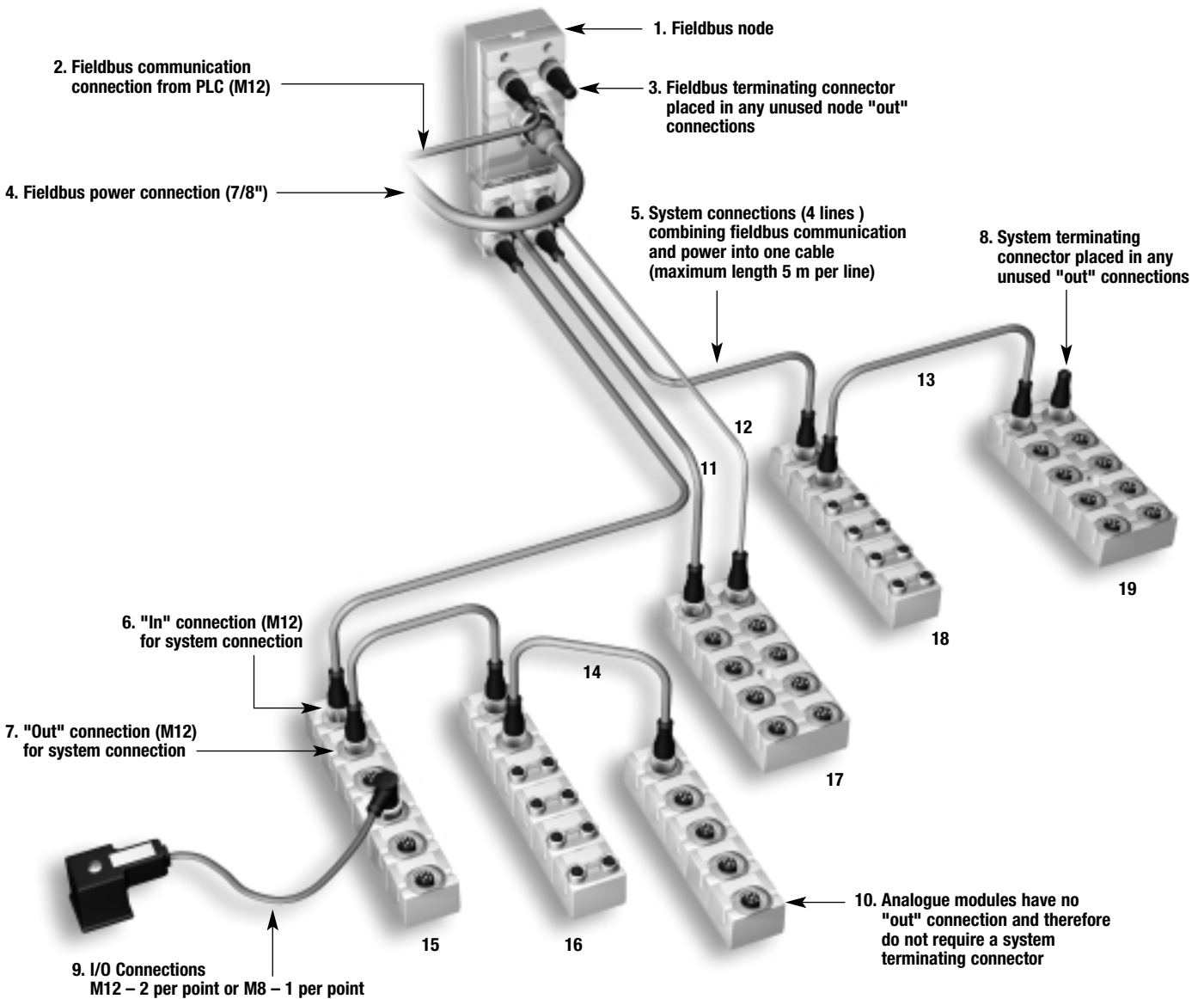
7/8" O-ring: NBR

Light comb and light ring: PC (UL94 V0)

	Page
Technical information – modules	3
Dimensional drawings – modules	12
Cables & connectors	15
Dimensional drawings – cables & connectors	26
Technical information – cables & connectors	30
System layout example	31



Example system layout



- | | |
|--------------------|---|
| 1. FD67NDNM127804 | Devicenet node |
| 2. FD678UD5SH5S | Devicenet cable |
| 3. FD67L | Devicenet terminating connector |
| 4. FD676UA5S7501* | Power cable |
| 5. FD675U16S86S1* | System cable |
| 6. FD675U16S86S1* | System cable |
| 7. FD675U16S86S1* | System cable |
| 8. FD67N | System terminating connector |
| 9. VE1FBCSCM12** | M12 to Valve plug cable |
| 10. FD67AOVM120004 | Analogue output module |
| 11. FD675U16S86S1* | System cable |
| 12. FD675U16S86S1* | System cable |
| 13. FD675U16S86S1* | System cable |
| 14. FD675U16S86S1* | System cable |
| 15. FD67DIOM120008 | 4 x M12 Input/output module |
| 16. FD67DIM080008 | 8 x M8 Input module |
| 17. FD67DIOM121216 | 8 x M12 Input/output module with external power |
| 18. FD67DIOM080008 | 8 x M8 Input/output module |
| 19. FD67DIM120016 | 8 x M12 Input module |

* Insert cable length



	Description	Model
	Fieldbus nodes	
	Profibus-DP	FD67NDPM127804
	DeviceNet	FD67NDNM127804
	CANopen	FD67NCOM127804
	Input modules	
	16 PNP Inputs (8 x M12)	FD67DIM120016
	8 PNP Inputs (4 x M12)	FD67DIM120008
	8 PNP Inputs (8 x M8)	FD67DIM080008
	Output/input modules	
	16 Outputs / PNP inputs (8 x M12)	FD67DIOM120016
	8 Outputs / PNP inputs (4 x M12)	FD67DIOM120008
	8 Outputs / PNP inputs (8 x M8)	FD67DIOM080008
	16 Outputs / PNP inputs (8 x M12) with external power connection	FD67DIOM121216
	External power supply module	FD67PDM127804
	Analogue input modules	
	Analogue input – current (4 x M12)	FD67AICM120004
	Analogue input – voltage (4 x M12)	FD67AIVM120004
	Analogue output modules	
	Analogue output – current (4 x M12)	FD67AOCM120004
	Analogue output – current (4 x M12)	FD67AOVM120004
	Output module	
	Multipole driver (16 outputs)	FD67DODSC0016

Options selector

FD67 ★ ★ ★ ★ ★ ★ ★ ★

Function	Substitute	Channels	Substitute	Power connection	Substitute
Profibus node	NDP	4	04	No external power	00
Devicenet node	NDN	8	08	7/8"	78
CANopen node	NCO	16	16	M12	12
PNP Input module	DI				
Output module	DO				
Output / PNP input module	DIO				
Analogue input current	AIC				
Analogue input voltage	AIV				
Analogue output current	AOC				
Analogue output voltage	AOV				
Power distribution	PD				
Connection	Substitute				
M12	M12				
M8	M08				
D-sub connector	DSC				

Accessories

Blanking plug	Label kit
M12 FD67-BLKM120000	20 x clip labels FD67-LAB0000000
M8 FD67-BLKM080000	

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.



Fieldbus node



Node	Model
Profibus-DP	FD67NDPM127804
DeviceNet	FD67NDNM127804
CANopen	FD67NCOM127804

Profibus	
Supported Baud rates	9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 / 1500 / 3000 / 6000 / 12000 kBaud
Protocol	Profibus DP according to IEC 61158
Operating modes	Poll
Vendor I.D	064D _{hex}
Profibus address	0 to 99 via BCD-Rotary switches
DeviceNet	
Supported Baud rates	125 / 250 / 500 kBit/sec
Protocol	DeviceNet in accordance with ODVA Specification
Operating modes	Poll / Change of State / Cycle
Vendor-ID	640 _{Dec}
DeviceNet address	0 to 63 via BCD Rotary switches
Max. number output bytes	70
Max. number input bytes	210 (including diagnostics)
Max. explicit message size	210
CANopen	
Supported Baud rates	10 / 20 / 50 / 100 / 125 / 250 / 500 / 800 / 1000 kBit/sec
Protocol	CANopen in accordance with CiA specification
Operating modes	Synchronous
Vendor-ID	118 _{Dec}
DeviceNet address	0 to 99 via BCD Rotary switches
Technical data	
Operating voltage	11,0 V to 30,2 V DC
Power input	~ 70 mA
Sensor supply	
Max. current	4 A per slot
Over voltage protection	Yes – Suppression diode
Overload / short circuit protection	Electronic short circuit detection. Tripping time <10 ms
Polarity protection	
Module electronics	Yes
Sensors	Yes
Actuators	Yes
Actuator supply	
Current rating	4 A per line
Max. total current	9 A
Over voltage protection	Suppression diode
Overload / short circuit protection	Electronic short circuit detection. Tripping time <10 ms
Connections	
Power	7/8" -5pin
DeviceNet/CANopen	M12- (A-coded) 5 pin
Profibus	M12- (B-coded) 5 pin
System connection	M12- (A-coded) 6 pin
Design information	
Weight	450 g
Torques	M12 Connector 0,5 Nm
	M4 Fixing screw 2 Nm
	M3 Fixing screw 1,2 Nm



8 x M12 Modules



Node	Model
16 PNP Inputs (8 x M12)	FD67DIM120016
16 Outputs / PNP inputs (8 x M12)	FD67DIOM120016

Technical data			
Max. number of PNP inputs	16		
Max. number of outputs	16		
Operating voltage	24V DC \pm 25%		
Power input	~ 50 mA		
Sensor supply			
Max. current	Max. 200 mA per M12 connection		
Overload / short circuit protection	Multifuse (For all M12 connections)	\leq 100 mA	Automatic restart
		$>$ 100 mA	Reset necessary
Time lag 1 s at 1k \geq 1 A and 23°C ambient temperature			
Reverse polarity protection			
Module electronics	Yes		
Sensors	Yes		
Actuators	Yes		
Outputs			
Max. current	0,5 A per channel		
Max. total current	4 A		
Over voltage protection	Yes (Varistor)		
Line length	0,75 mm ²	Max. 10 m	
	0,34 mm ²	Max. 5 m	
Cross section	Max. 1,5 mm ²		
Signal delay	10 ms		
Max. switching frequency with resistive load	50 Hz		
Max. switching frequency with inductive load	5 Hz		
Max. lamp load	10 W		
Overload / short circuit protection	Short circuit detection tripping time $<$ 10 ms		
PNP Inputs			
Input characteristic	IEC 1131-2, Typ 2		
Input filter	~ 1 ms		
Signal delay	10 ms		
Over voltage protection	Yes (Varistor)		
Connections			
System connection	M12 (A-coded) 6 pin		
Input / output connections	8 x M12 (A-coded) 5 pin		
Design information			
Weight	210 g		
Torques	M12 Connector	0,5 Nm	
	M4 Fixing screw	2 Nm	



8 x M12 with external power connection



Node	Model
16 Outputs / PNP inputs (8 x M12) with external power connection	FD67DIOM121216

Technical data		
Max. number of PNP inputs	16	
Max. number of outputs	16	
Operating voltage	24V DC \pm 25%	
Current consumption	~ 50 mA	
Sensor supply		
Max. current	Max. 200 mA per M12 socket	
Overload / short-circuit fuse	\leq 100 mA	Automatic restart
	$>$ 100 mA	Reset required
Tripping time 1 s at $1\text{ k} \geq 1\text{ A}$ and 23°C ambient temperature		
Reverse polarity protection		
Module electronics	Yes	
Sensors	Yes	
Actuators	Yes	
Outputs		
Rated current	1,6 A per channel	
Max. sum current	4 A	
Overvoltage protection	Yes (Varistor)	
Cable length	0,75 mm ²	Max. 10 m
	0,34 mm ²	Max. 5 m
Cable cross-section	Max. 1,5 mm ²	
Signal delay	10 ms	
Max. switching frequency with resistive load	50 Hz	
Max. switching frequency with inductive load	5 Hz	
Max. lamp load	10 W	
Overload / short-circuit fuse	Electronic short-circuit detection, tripping time $<$ 10 ms	
PNP Inputs		
Input characteristic	IEC 1131-2, type 2	
Input filter	~ 1 ms	
Signal delay	10 ms	
Overvoltage protection	Yes (Varistor)	
Connections		
System line	M12 connector (A-coded) 6-pole	
I/O lines	8 x M12 round plug connector (A-coded) 5-pole	
Design information		
Weight	210 g	
Torques	M12 round plug connector	0,5 Nm
	M4 fastening screw	2 Nm



4 x M12 Power distribution module



Node	Model
External power supply module	FD67PDM127804

Technical data

Number of outputs	4 – not switcheable (external actuator supply output)
Operating voltage	24V DC \pm 25%
Current consumption	~ 30 mA

Reverse polarity protection

Module electronics	Yes
Outputs	Yes

Outputs

Rated current	4 A per system line connection
Max. sum current	9 A
Overvoltage protection	Yes (suppressor diode)
Cable length	0,5 mm ² Max. 5 m
Overload / short-circuit fuse	electronic short-circuit detection, tripping time <10 ms

Connections

Power supply line	7/8" connector 5-pole
External actuator supply (output)	M12 connector (A-coded) 6-pole

Design information

Weight	145 g
Torques	M12 round plug connector 0,5 Nm
	M4 fastening screw 2 Nm



4 x M12 Modules



Node	Model
8 PNP Inputs (4 x M12)	FD67DIM120008
8 Outputs / PNP inputs (4 x M12)	FD67DIOM120008

Technical data

Max. number of PNP inputs	8
Max. number of outputs	8
Operating voltage	24V DC \pm 25%
Power input	~ 50 mA

Sensor supply

Max. current	Max. 200 mA per M12 connection
Overload / short circuit protection	Multifuse (For all M12 connections) \leq 100 mA Automatic restart $>$ 100 mA Reset necessary Time lag 1 s at 1k \geq 1 A and 23°C ambient temperature

Polarity protection

Module electronics	Yes
Sensors	Yes
Actuators	Yes

Outputs

Max. current	0,5 A per channel
Max. total current	4 A
Under voltage protection	Yes (Varistor)
Line length	0,75 mm ² Max. 10 m 0,34 mm ² Max. 5 m
Cross section	Max. 1,5 mm ²
Signal delay	10 ms
Max. switching frequency with resistive load	50 Hz
Max. switching frequency with inductive load	5 Hz
Max. lamp load	10 W
Overload / short circuit protection	Short circuit detection time lag $<$ 10 ms

PNP Inputs

Input characteristic	IEC 1131-2, Typ 2
Input filter	~ 1 ms
Signal delay	7 ms
Under voltage protection	Yes (Varistor)

Connections

System connection	M12- (A-coded) 6 pin
Input / output connections	4 x M12- (A- coded) 5 pin

Design information

Weight	145 g
Torques	M12 Connector 0,5 Nm M4 Fixing screw 2 Nm



8 x M8 Modules



Node	Model
8 PNP Inputs (8 x M8)	FD67DIM080008
8 Outputs / PNP inputs (8 x M8)	FD67DIOM080008

Technical data		
Max. number of PNP inputs	8	
Max. number of outputs	8	
Operating voltage	24V DC \pm 25%	
Power input	~ 30 mA	
Sensor supply		
Max. current	Max. 200 mA per M12 connection	
Overload / short circuit protection	Multifuse (For all M8 connections)	
	Time lag 1 s at 1k \geq 1 A and 23°C ambient temperature	
Polarity protection		
Module electronics	Yes	
Sensors	Yes	
Actuators	Yes	
Outputs		
Current	0,5 A per channel	
Max. current total	4 A	
Over voltage protection	Yes (Varistor)	
Line length	0,75 mm ²	Max. 10 m
	0,34 mm ²	Max. 5 m
Cross section	Max. 1,5 mm ²	
Signal delay	10 ms	
Max. switching frequency with resistive load	50 Hz	
Max. switching frequency with inductive load	5 Hz	
Max. lamp load	10 W	
Overload / short circuit protection	Short circuit protection tripping time <10 ms	
PNP Inputs		
Input characteristic	IEC 1131-2, Typ 2	
Input filter	~ 1 ms	
Signal delay	7 ms	
Over voltage protection	Yes (Varistor)	
Connections		
System connection	M12- (A-coded) 6 pin	
Input / output connections	8 x M8- 3 pin	
Design information		
Weight	165 g	
Torques	M8 Connector	0,5 Nm
	M4 Fixing screws	2 Nm



4 x M12 Analogue input modules



Node	Model
Analogue input voltage (4 x M12)	FD67AIVM120004
Analogue input current (4 x M12)	FD67AICM120004

Technical data		
Max. number of inputs	4	
Operating voltage	24V DC \pm 25%	
Power input	~ 50 mA	
Sensor supply		
Max. current	Max. 200 mA per M12 connection	
Overload / short circuit protection	Multifuse (For all M12 connections)	\leq 100 mA Automatic restart
		> 100 mA Reset necessary
Time lag 1 s at 1k \geq 1 A and 23°C ambient temperature		
Polarity protection		
Module electronics	Yes	
Analogue inputs	No	
Inputs		
Conversion time	~ 2 ms per channel	~ 2 ms per channel
Conversion type	successive approximation	successive approximation
Signal delay	2,5 + conversion time of the number of active channels	2,5 + conversion time of the number of active channels
PIN 2	Positive differential voltage at input	Positive differential current at input
PIN 4	Negative differential voltage at input	Negative differential current at input
Range	-10V to +10V (15 Bit with sign)	0 mA to 20 mA (15 Bit)
	0 to 10 V (15 Bit without sign)	4 mA to 20 mA (15 Bit)
Max. analogue input	-12 V or +12 V	22 mA
Input impedance	~ 1 MOhm	~ 300 Ohm
Data format	16 Bit, Motorola or Intel	16 Bit, Motorola or Intel
Relative measuring error	< \pm 0,3% from range limit	< \pm 0,3% from range limit
Relative measuring error at 55 °C	< \pm 0,5% from range limit	< \pm 0,5% from range limit
Relative measuring error – EMC conditions	< \pm 1% from range limit	< \pm 1% from range limit
Calibration	Self-calibration	Self-calibration
Cable length	30 m max.	30 m max.
Connections		
System connection	M12 (A-coded) 6pin	
Input connections	4 x M12 (A-coded) 5pin	
Design information		
Weight	140 g	
Torques	M12 Connector	0,5 Nm
	M4 Fixing screw	2 Nm



4 x M12 – Analogue output modules



Node	Model
Analogue output voltage (4 x M12)	FD67AOCM120004
Analogue output current (4 x M12)	FD67AOCM120004

Technical data		
Max. number of outputs	4	
Operating voltage	24V DC \pm 25%	
Power input	~ 75 mA	
Actuator supply		
Voltage supply on Pin 1	Max. 1,6 A per M12 connection (Total current for entire module max. 4 A)	
Overload / short circuit protection	Yes, with automatic restart after 1 second	
Max. Cable diameter	Max. 1.5 mm ²	
Polarity protection		
Module electronics	Yes	
Analogue outputs	No	
Outputs		
	Voltage	Current
Conversion time	~ 1 ms per channel	~ 1 ms per channel
Signal delay	~ 2 ms + conversion time of active channels	~ 2 ms + conversion time of active channels
PIN 4	Analogue voltage output	Analogue current output
PIN 2	Not used	Not used
Measuring range	-10 V to +10 V (11 bits with start bit)	0 to 20 mA (11 bits)
	0 to 10 V (11 bits)	4 to 20 mA (11 bits)
Max. analogue output voltage	+10 V or -10V	20 mA
Data format	16 bits, Motorola or Intel	16 bits, Motorola or Intel
Relative error of output value	< \pm 0,3% from range limit	< \pm 0,3% from range limit
Relative error of output value at 55°C	< \pm 0,5% from range limit	< \pm 0,5% from range limit
Relative error of output value – EMC conditions	< \pm 2% from range limit	< \pm 0,5% from range limit
Load resistance	\geq 500 Ohm	\leq 500 Ohm
Max. capacitive load	1 μ F	1 μ F
Damping period	Max. resistive load: 0,070 ms	Max. resistive load : 0,020 ms
	Max. capacitive load: 0,800 ms	Max. capacitive load: 2,100 ms
Nonlinearity	< \pm 0,3% from range limit	< \pm 0,3% from range limit
Output ripple	< \pm 0,3% from range limit	< \pm 0,3% from range limit
Cable length	30 m max.	30 m max.
Connections		
System connection	M12- (A-coded) 6 pin	
Input / output connections	4 x M12- (A-coded) 5 pin	
Design information		
Weight	140 g	
Torques	M12 Connector	0,5 Nm
	M4 Fixing screws	2 Nm



1 x D-sub connector



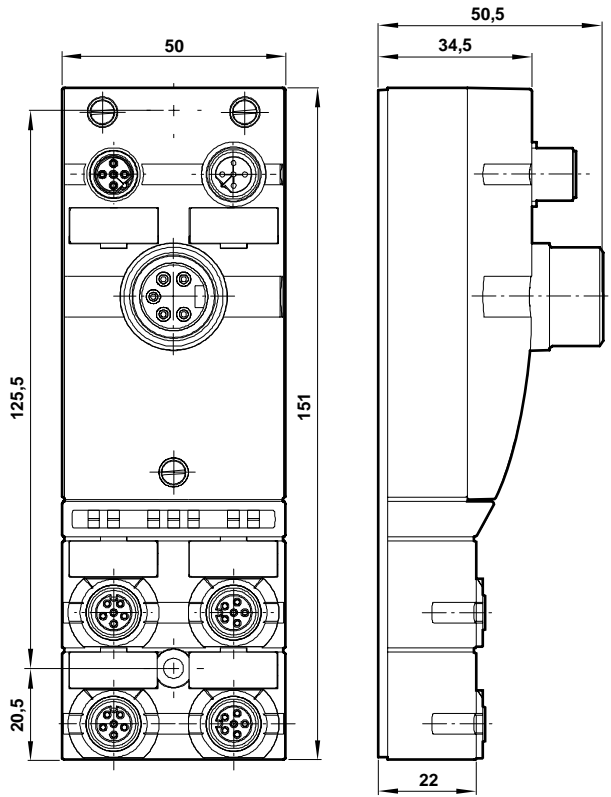
Node	Model
Multipole driver (16 outputs)	FD67D0DSC0016

Technical data	
Number of outputs	16
Operating voltage	24V DC \pm 25%
Power input	~ 50 mA
Polarity protection	
Module electronics	Yes
Actuators	Yes
Outputs	
Rated current	60 mA per channel
Overvoltage protection	Yes (Zener diode)
Cable length	Max. 0,5 m (pre-wired)
Cable cross-section	Max. 0,25 mm ²
Signal delay	10 ms
Max. switching frequency at resistive load	50 Hz
Max. switching frequency at inductive load	5 Hz
Overload / short-circuit fuse	Electronic short-circuit detection, tripping time <1 ms
Line break	Detection by "Sens" wire
Design information	
Weight	165 g
Torque – M4 fastening screw	2 Nm
Connections	
System connection	M12- (A-coded) 6 pin
Input / output connections	Customized and pre-wired

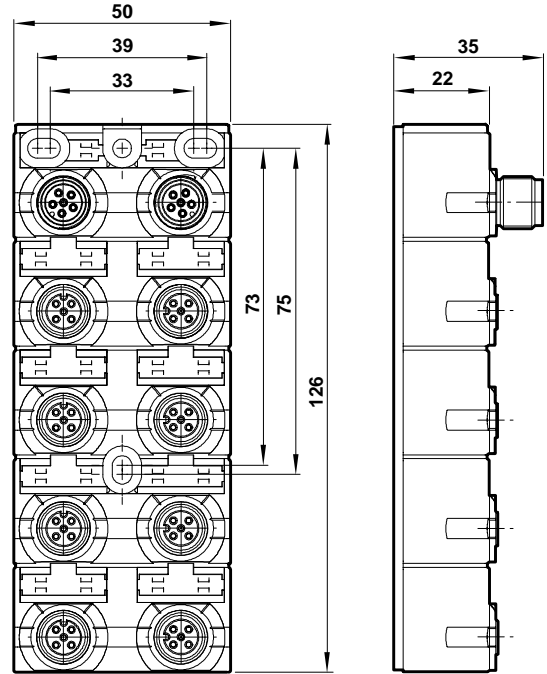


Dimensions

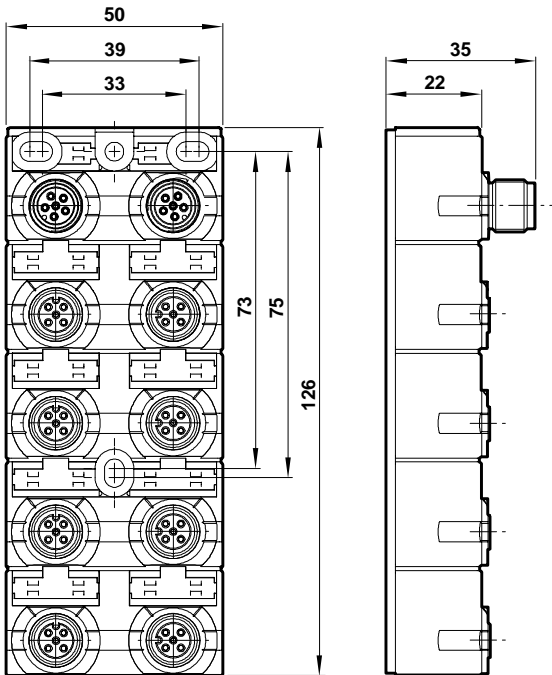
Fieldbus node



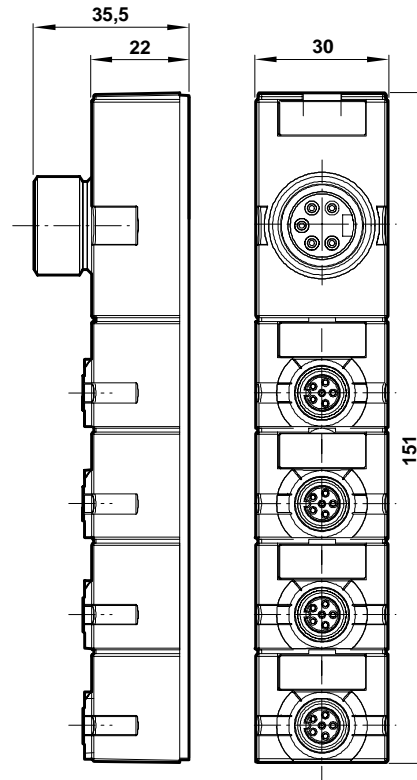
8 x M12 Modules



8 x M12 with external power connection

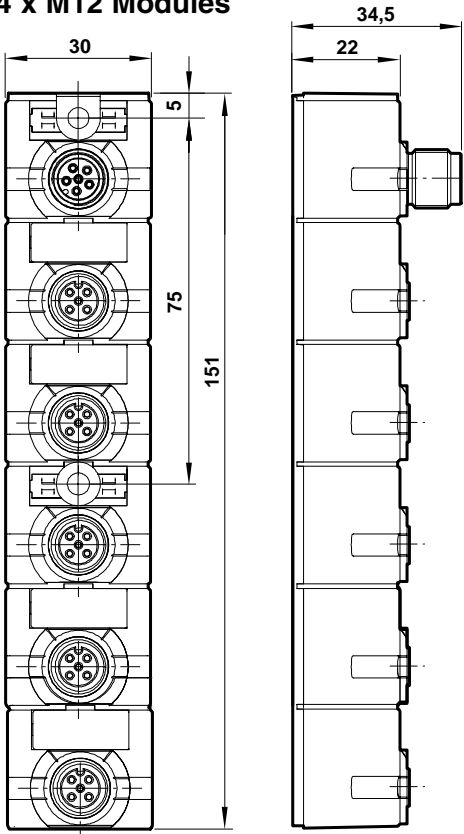


4 x M12 Power distribution module

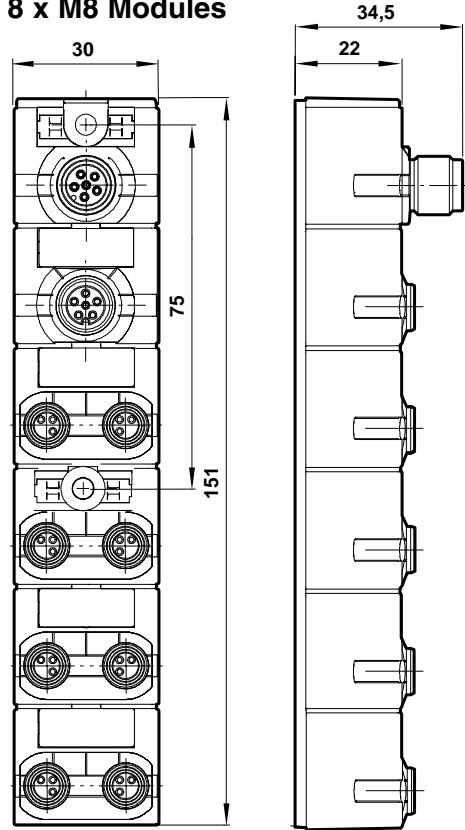




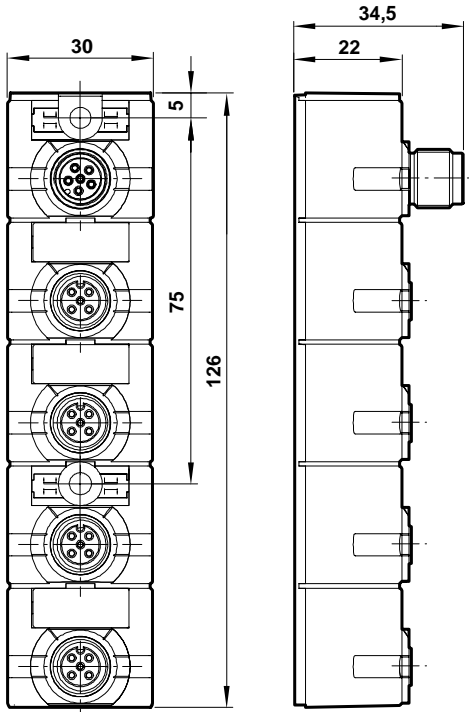
4 x M12 Modules



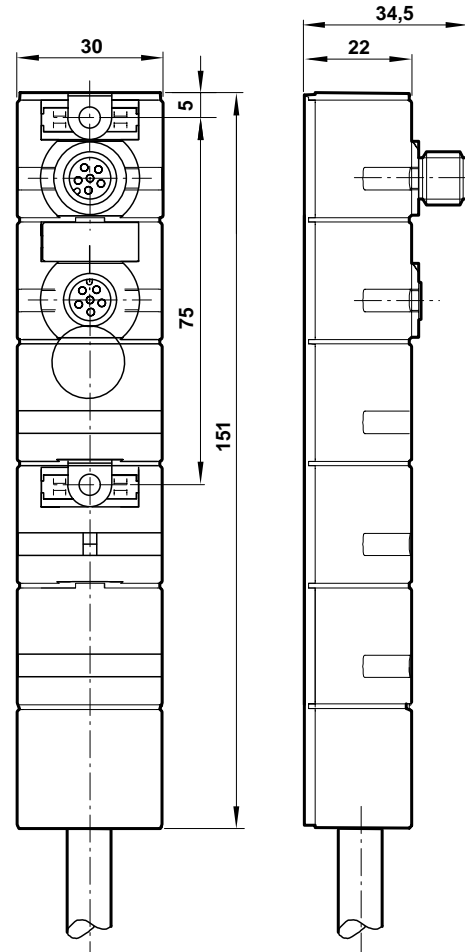
8 x M8 Modules



4 x M12 – Analogue input modules
4 x M12 – Analogue output modules



1 x D-sub connector





FD67 Cables & connectors selection chart

**DeviceNet/
CANopen cables –
connections to
node**


	M12 Female straight	M12 Female 90°
M12 Male straight	FD678UD5SH5S11 (0,3 m) – FD678UD5SH5S13 (1,0 m) – FD678UD5SH5S15 (2,0 m) –	
M12 Male 90°	–	FD678UD5AH5A11 (0,3 m) FD678UD5AH5A13 (1,0 m) FD678UD5AH5A15 (2,0 m)

**Power cables –
connections to
node**

	7/8" Male straight	Open end
7/8" Female straight	FD676UA5SR5S11 (0,3 m) FD676UA5SR5S12 (0,6 m) FD676UA5SR5S13 (1,0 m) FD676UA5SR5S15 (2,0 m)	FD676UA5S75014 (1,5 m) FD676UA5S75017 (3,0 m) FD676UA5S7501B (5,0 m) FD676UA5S7501F (10,0 m)

**Terminating
connectors**

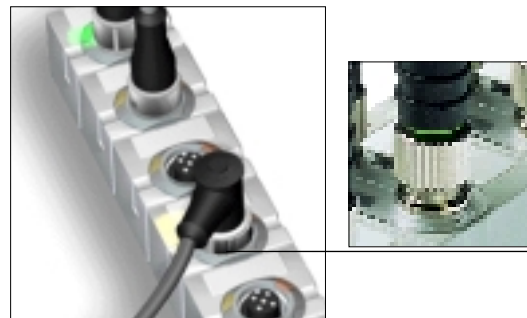
M12



DeviceNet – FD67L
CANopen – FD67L
Profibus – FD67K
System – FD67N

**Profibus cables
– connections
to node**

	M12 Female straight	M12 Female 90°
M12 Male straight	FD677UP3SG3S11 (0,3 m) – FD677UP3SG3S13 (1,0 m) – FD677UP3SG3S15 (2,0 m) –	
M12 Male 90°	–	FD677UP3AG3S11 (0,3 m) FD677UP3AG3S13 (1,0 m) FD677UP3AG3S15 (2,0 m)



Visual indication of electrical connection

**System cables
– node to
module and
module to
module**

	M12 Female straight	M12 Female 90°
M12 Male straight	FD675U16S86S11 (0,3 m) – FD675U16S86S13 (1,0 m) – FD675U16S86S15 (2,0 m) – FD675U16S86S17 (3,0 m) – FD675U16S86S19 (4,0 m) – FD675U16S86S1B (5,0 m) –	
M12 Male 90°	–	FD675U16A86A11 (0,3 m) FD675U16A86A13 (1,0 m) FD675U16A86A15 (2,0 m) FD675U16A86A17 (3,0 m) FD675U16A86A19 (4,0 m) FD675U16A86A1B (5,0 m)

























M12 I/O Connections to modules		M12 Female straight	M12 Female 90°	Open end	M12 Male 90°	Valve connector
M12 Male straight		FD673U14S84S11 (0,3 m)	FD673U14S84A11 (0,3 m)	FD673U14S74004 (1,5 m)	–	VE1FBCSCM1203 0,3 m cable, type 'C' connector
		FD673U14S84S13 (1,0 m)	FD673U14S84A13 (1,0 m)	FD673U14S74007 (3,0 m)	–	VE1FBCSCM1210 1 m cable, type 'C' connector
		FD673U14S84S15 (2,0 m)	FD673U14S84A15 (2,0 m)	FD673U14S7400B (5,0 m)	–	VE1FBCSBM1203 0,3 m cable, industrial connector
		–	–	–	–	VE1FBCSBM1210 1 m cable, industrial connector
		–	–	–	–	VE1FBCSAM1203 0,3 m cable, type 'A' connector
		–	–	–	–	VE1FBCSAM1210 1 m cable, type 'A' connector
M12 Male straight shielded		FD674U15S85S11 (0,3 m)	FD674U15S85A11 (0,3 m)	–	–	–
		FD674U15S85S13 (1,0 m)	FD674U15S85A13 (1,0 m)	–	–	–
		FD674U15S85S15 (2,0 m)	FD674U15S85A15 (2,0 m)	–	–	–
Open end		FD673U84S74004 (1,5 m)	FD673U84A74004 (1,5 m)	–	–	–
		FD673U84S74007 (3,0 m)	FD673U84A74007 (3,0 m)	–	–	–
		FD673U84S7400B (5,0 m)	FD673U84A7400B (5,0 m)	–	–	–

M8 I/O Connections to modules		M8 Female straight	M8 Female 90°	8 mm Female straight	8 mm Female 90°	M8 Male 90°	Open end
M8 Male straight		FD673U23S93S11 (0,3 m)	FD673U23S93A11 (0,3 m)	FD673U23S33S13 (1,0 m)	FD673U23S33A13 (1,0 m)	–	FD673U23S73004 (1,5 m)
		FD673U23S93S13 (1,0 m)	FD673U23S93A13 (1,0 m)	FD673U23S33S17 (3,0 m)	FD673U23S33A17 (3,0 m)	–	FD673U23S73007 (3,0 m)
		FD673U23S93S15 (2,0 m)	FD673U23S93A15 (2,0 m)	FD673U23S33S1B (5,0 m)	FD673U23S33A1B (5,0 m)	–	FD673U23S7300B (5,0 m)
M8 Male 90°		FD673U93A73004 (1,5 m)	FD673U93A73004 (1,5 m)	FD673U33S73004 (1,5 m)	FD673U33A73004 (1,5 m)	FD673U23A73004 (1,5 m)	–
		FD673U93A73007 (3,0 m)	FD673U93A73007 (3,0 m)	FD673U33S73007 (3,0 m)	FD673U33A73007 (3,0 m)	FD673U23A73007 (3,0 m)	–
		FD673U93A7300B (5,0 m)	FD673U93A7300B (5,0 m)	FD673U33S7300B (5,0 m)	FD673U33A7300B (5,0 m)	FD673U23A7300B (5,0 m)	–

M12 Y-Pieces – I/O Connections to modules		8 mm Female straight	8 mm Female 90°	2 x Valve connections
M12 Y-Piece		FD673U14S33S23 (1,5 m)	FD673U14S33A23 (1,5 m)	VE1FBCTCM1203 0,3 m cable, type 'C' connector
		FD673U14S33S27 (3,0 m)	FD673U14S33A27 (3,0 m)	VE1FBCTCM1210 1 m cable, type 'C' connector
		FD673U14S33S2B (5,0 m)	FD673U14S33A2B (5,0 m)	VE1FBCTBM1203 0,3 m cable, industrial connector
		–	–	VE1FBCTBM1210 1 m cable, industrial connector
		–	–	VE1FBCTAM1203 0,3 m cable, type 'A' connector
		–	–	VE1FBCTAM1210 1 m cable, type 'A' connector

Note: Other cable lengths available on request.

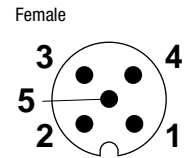
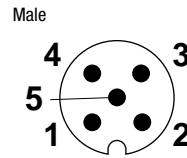
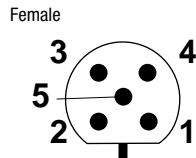
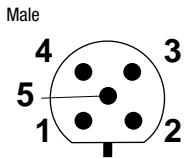


M12 Fieldbus connectors – Connections to node	Profibus Male	Profibus Female	DeviceNet/CANopen Male	DeviceNet/CANopen Female
				
	FD6710P5S75S10	FD6710G5S75S10	FD6710D5S75S10	FD6710H5S75S10
7/8" Power connectors – Connections to node	Male straight	Female straight	Tee piece	
				
	FD6760A5S75010	FD6760R5S75010	FD6760A5SR5S20	
M12 IDC Connectors – I/O connections to modules	Male straight	Female straight	Male 90°	Female 90°
				
	FD673014S74S10	FD673084S74S10	FD673014A74S10	FD673084A74S10
M8 IDC Connectors – I/O connections to modules	Male straight	Female straight	Male 90°	Female 90°
				
	FD673014S74S10	FD673084S74S10	FD673014A74S10	FD673084A74S10
M12 shielded Connectors – I/O connections to modules	Male straight	Female straight	Male 90°	Female 90°
				
	FD674015SB5S10 (PG7) FD674015SC5S10 (PG9)	FD674085SB5S10 (PG7) FD674085SC5S10 (PG9)	FD674015AB5S10 (PG7) FD674015AC5S10 (PG9)	FD674085AB5S10 (PG7) FD674085AC5S10 (PG9)
M12 Tee pieces – I/O Connections to modules	M12 ... 2 x M8	M12 ... 2 x M12		
				
	FD673014S93S20	FD673015S84S20		
Screw terminal connector – I/O Connections to modules	M12			
				
	VE1FBCRSM125P			



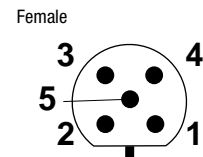
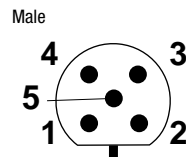
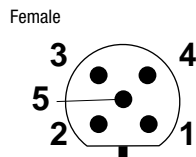
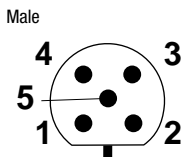
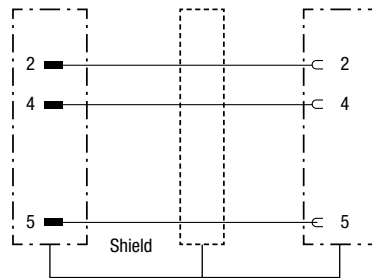
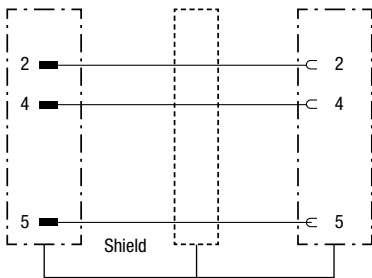
Fieldbus connectors

Profibus		DeviceNet/CANopen	
	FD6710P5S75S10		FD6710D5S75S10
	FD6710G5S75S10		FD6710H5S75S10
	FD67K		FD67L



Pre-wired Fieldbus connectors

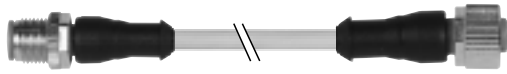
Profibus Straight		Profibus 90°	
	FD677UP3SG3S11		FD677UP3AG3A11
Male/female, straight 0,3 m	FD677UP3SG3S13	Male/female 90° 0,3 m	FD677UP3AG3A13
Male/female, straight 1,0 m	FD677UP3SG3S15	Male/female 90° 1,0 m	FD677UP3AG3A15
Male/female, straight 2,0 m		Male/female 90° 2,0 m	FD677UP3AG3A15





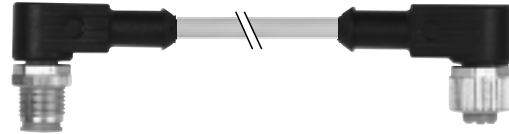
Pre-wired Fieldbus connectors

DeviceNet/CANopen Straight

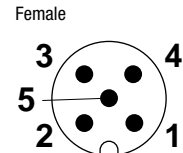
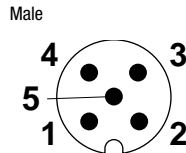
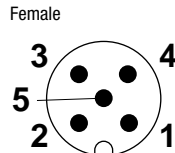
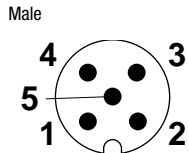
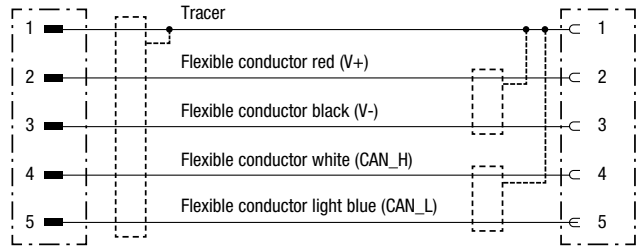
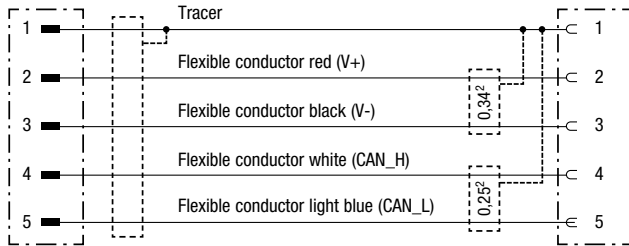


Male/female, straight 0,3 m	FD678UD5SH5S11
Male/female, straight 1,0 m	FD678UD5SH5S13
Male/female, straight 2,0 m	FD678UD5SH5S15

DeviceNet/CANopen 90°

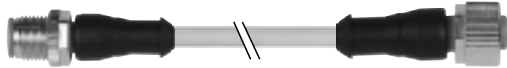


Male/female 90° 0,3 m	FD678UD5AH5A11
Male/female 90° 1,0 m	FD678UD5AH5A13
Male/female 90° 2,0 m	FD678UD5AH5A15



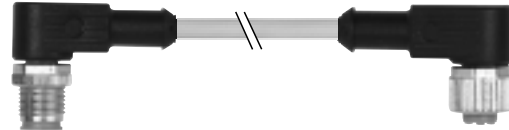
System connectors

Straight

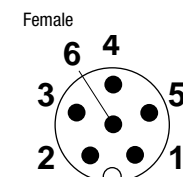
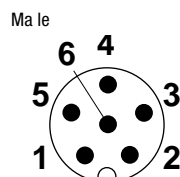
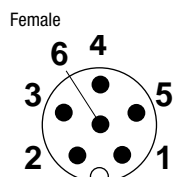
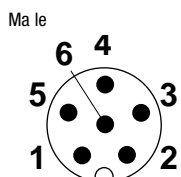
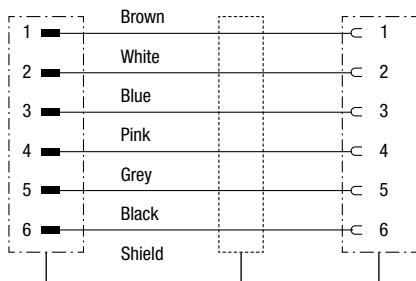


Male/female, straight 0,3 m	FD675U16S86S11
Male/female, straight 1,0 m	FD675U16S86S13
Male/female, straight 2,0 m	FD675U16S86S15
Male/female, straight 3,0 m	FD675U16S86S17
Male/female, straight 4,0 m	FD675U16S86S19
Male/female, straight 5,0 m	FD675U16S86S1B
System terminating connector	FD67N

90°



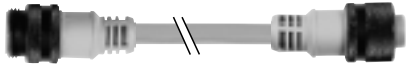
Male/female 90° 0,3 m	FD675U16A86A11
Male/female 90° 1,0 m	FD675U16A86A13
Male/female 90° 2,0 m	FD675U16A86A15
Male/female 90° 3,0 m	FD675U16A86A17
Male/female 90° 4,0 m	FD675U16A86A19
Male/female 90° 5,0 m	FD675U16A86A1B





Fieldbus power cables

Fieldbus power cables

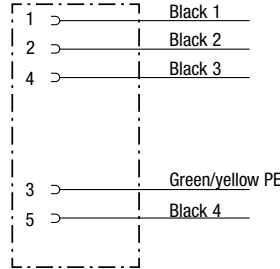
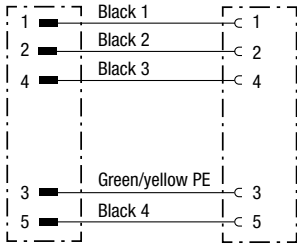


7/8" Male/female, straight 0,3 m	FD676UA5SR5S11
7/8" Male/female, straight 0,6 m	FD676UA5SR5S12
7/8" Male/female, straight 1,0 m	FD676UA5SR5S13
7/8" Male/female, straight 2,0 m	FD676UA5SR5S15

Fieldbus power cables, open ended

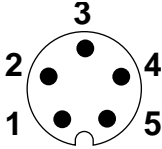
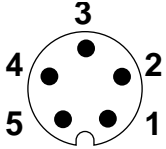


7/8" Female/open end 1,5 m	FD676UA5S75014
7/8" Female/open end 3,0 m	FD676UA5S75017
7/8" Female/open end 5,0 m	FD676UA5S7501B
7/8" Female/open end 10 m	FD676UA5S7501F

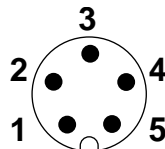


Male

Female



Female



Wireable Fieldbus power connectors

Straight



7/8" Male wireable straight	FD6760A5S75010
7/8" Female wireable straight	FD6760R5S75010

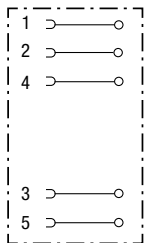
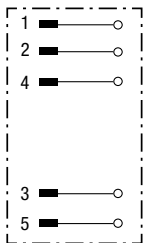
Tee



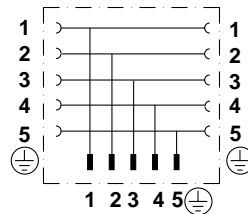
7/8" Power Tee connector	FD6760A5SR5S20
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5 Pin

5 Pin



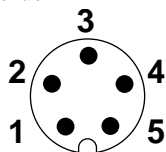
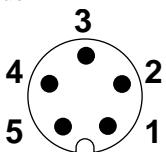
1 Male 7/8" 2 Female 7/8"



3 Female 7/8"

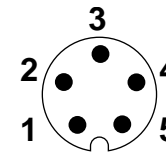
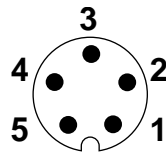
Male

Female



Male

Female





M12 Wireable IDC connectors 4 pin

Straight

90°



Male
Female

FD673014S74S10
FD673084S74S10

Male
Female

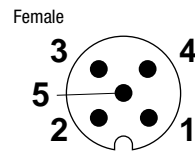
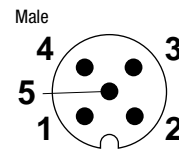
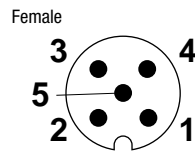
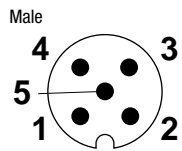
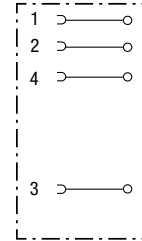
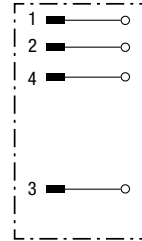
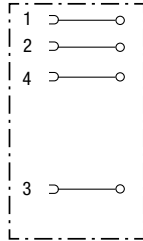
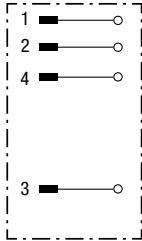
FD673014A74S10
FD673084A74S10

4 Pin

4 Pin

4 Pin

4 Pin



0,25 ... 0,5 mm²

0,25 ... 0,5 mm²

0,25 ... 0,5 mm²

0,25 ... 0,5 mm²

M8 Wireable IDC connectors, 3 pin

Straight

M8 Wireable connectors, 3 pin

90°



Male
Female

FD673023S73S10
FD673093S73S10

Male
Female

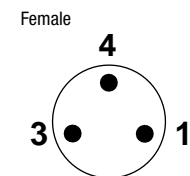
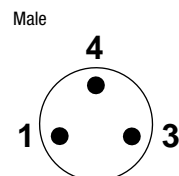
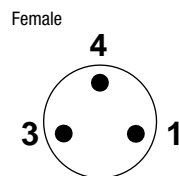
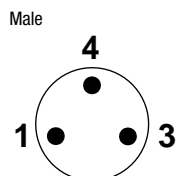
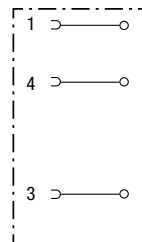
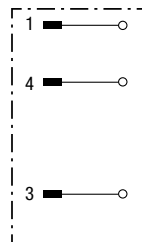
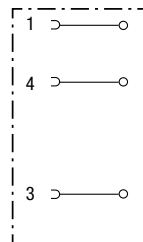
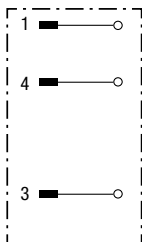
FD673023A73S10
FD673093A73S10

3 Pin

3 Pin

3 Pin

3 Pin



0,25 ... 0,5 mm²

0,25 ... 0,5 mm²

0,25 ... 0,5 mm²

0,25 ... 0,5 mm²



M12 Wireable shielded connectors, 5 pin

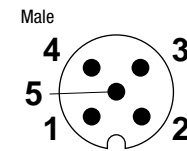
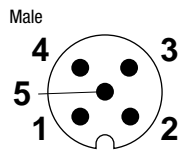
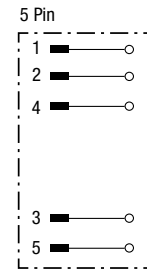
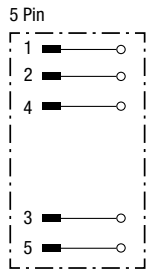
Straight

90°



Male to PG7	FD674015SB5S10
Male to PG9	FD674015SC5S10

Male to PG7	FD674015AB5S10
Male to PG9	FD674015AC5S10



PG7 4 ... 6 mm, PG9 6 ... 8 mm

PG7 4 ... 6 mm, PG9 6 ... 8 mm

M12 Female wireable shielded connectors, 5 pin

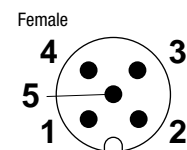
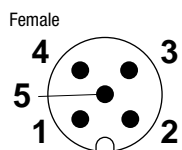
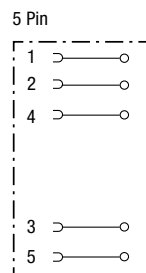
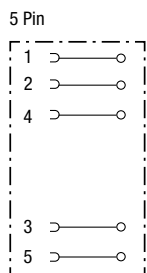
Straight

90°



Female to PG7	FD674085SB5S10
Female to PG9	FD674085SC5S10

Female to PG7	FD674085AB5S10
Female to PG9	FD674085AC5S10



PG7 4 ... 6 mm, PG9 6 ... 8 mm

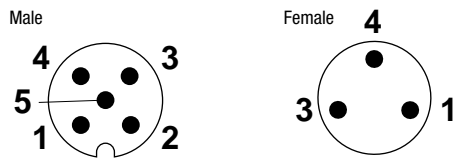
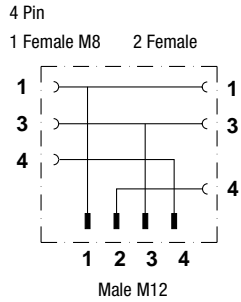
PG7 4 ... 6 mm, PG9 6 ... 8 mm



M12 4 pin to M8 3 pin tee connector



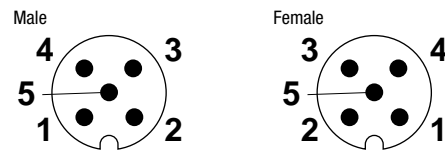
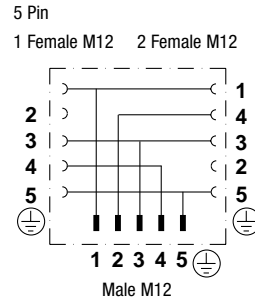
Male M12 to female M8 Tee connector FD673014S93S20



M12 5 pin to M12 4 pin tee connector



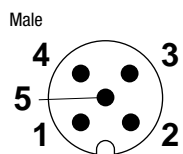
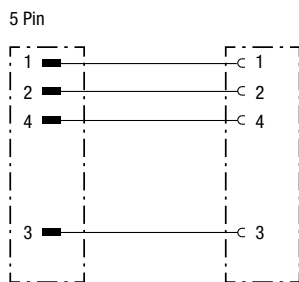
Male M12 to female M12 Tee connector FD673015S84S20



Wireable input or output 5 pin male plug – screw termination



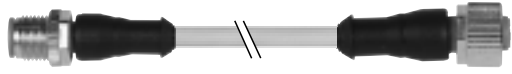
Wireable input or output 5 pin male plug – screw termination VE1FBCRSM125P



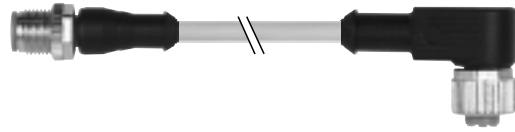


M12 Pre-wired cables PUR, 4 pin

Male straight/female straight



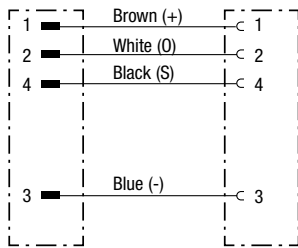
Male straight/female 90°



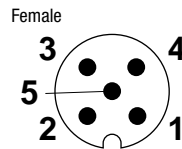
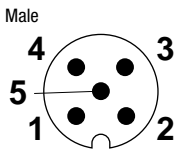
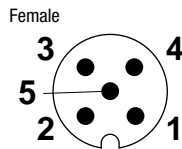
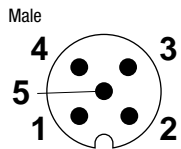
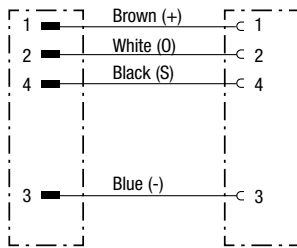
Male straight/female, straight 0,3 m	FD673U14S84S11
Male straight/female, straight 1,0 m	FD673U14S84S13
Male straight/female, straight 2,0 m	FD673U14S84S15

Male straight/female 90° 0,3 m	FD673U14S84A11
Male straight/female 90° 1,0 m	FD673U14S84A13
Male straight/female 90° 2,0 m	FD673U14S84A15

4 Pin



4 Pin

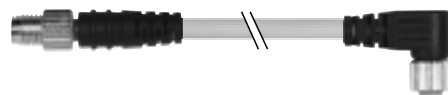


M8 Pre-wired cables PUR, 3 pin

Male straight/female straight



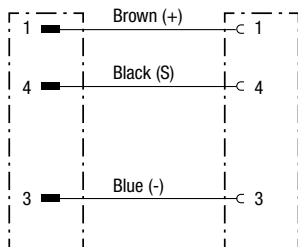
Male straight/female 90°



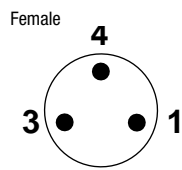
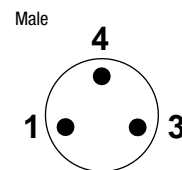
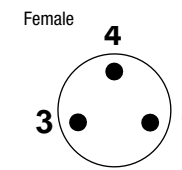
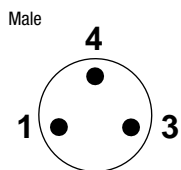
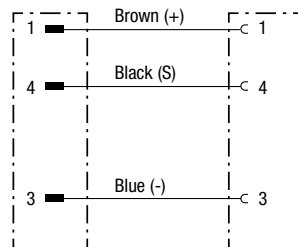
Male straight/female, straight 0,3 m	FD673U23S93S11
Male straight/female, straight 1,0 m	FD673U23S93S13
Male straight/female, straight 2,0 m	FD673U23S93S15

Male straight/female 90° 0,3 m	FD673U23S93A11
Male straight/female 90° 1,0 m	FD673U23S93A13
Male straight/female 90° 2,0 m	FD673U23S93A15

3 Pin



3 Pin

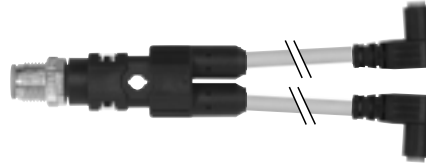




M12 Pre-wired cables PUR, 4 pin to 2 x 8 mm female

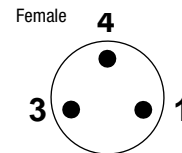
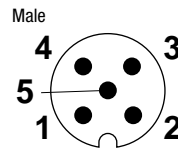
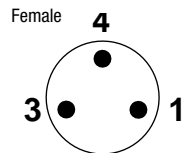
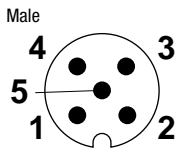
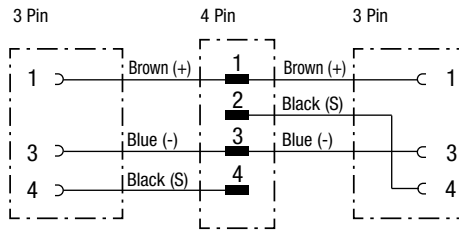
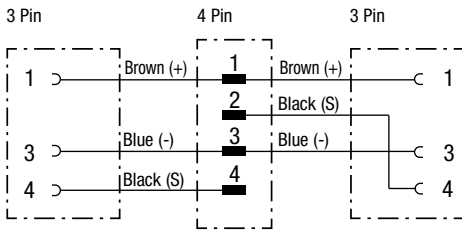
M12 Straight to 2 x 8 mm, straight female

M12 Straight to 2 x 8 mm 90° female



M12 Straight to 2 x 8 mm, straight female 1m	FD673U14S33S23
M12 Straight to 2 x 8 mm, straight female 3 m	FD673U14S33S27
M12 Straight to 2 x 8 mm, straight female 5m	FD673U14S33S2B

M12 Straight to 2 x 8 mm 90° female 1m	FD673U14S33A23
M12 Straight to 2 x 8 mm 90° female 3 m	FD673U14S33A27
M12 Straight to 2 x 8 mm 90° female 5m	FD673U14S33A2B



M8 Pre-wired cables PUR, 3 pin to 8 mm

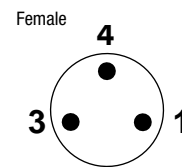
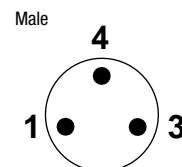
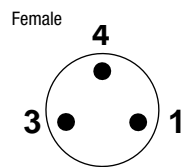
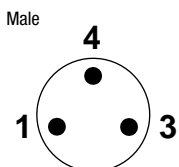
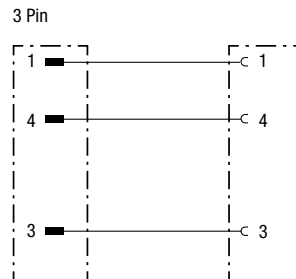
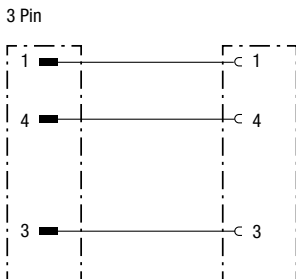
M8 Straight to 8 mm, straight female

M8 Straight to 8 mm 90° female



M8 Straight to 8 mm, straight female 1 m	FD673U23S33S13
M8 Straight to 8 mm, straight female 3 m	FD673U23S33S17
M8 Straight to 8 mm, straight female 5 m	FD673U23S33S1B

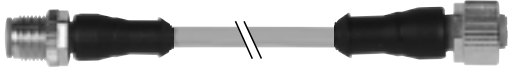
M8 Straight to 8 mm 90° female 1 m	FD673U23S33A13
M8 Straight to 8 mm 90° female 3 m	FD673U23S33A17
M8 Straight to 8 mm 90° female 5 m	FD673U23S33A1B



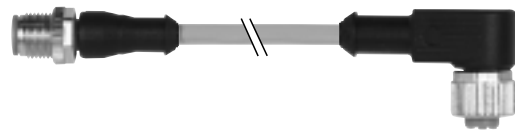


M12 Pre-wired shielded cables 5 pin PUR female

Male straight/female straight



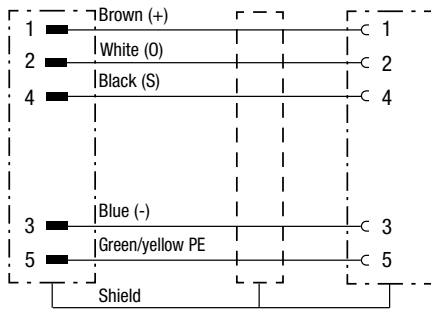
Male straight/female 90°



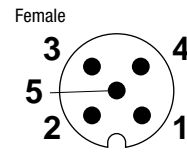
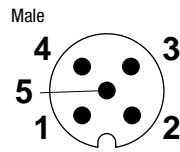
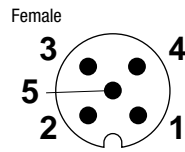
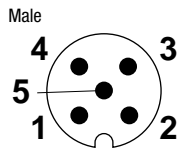
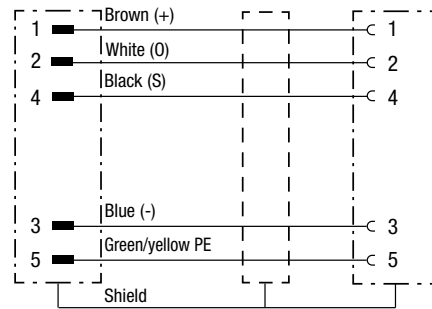
Male straight/female, straight 0,3 m	FD674U15S85S11
Male straight/female, straight 1,0 m	FD674U15S85S13
Male straight/female, straight 2,0 m	FD674U15S85S15

Male straight/female 90° 0,3 m	FD674U15S85A11
Male straight/female 90° 1,0 m	FD674U15S85A13
Male straight/female 90° 2,0 m	FD674U15S85A15

5 Pin



5 Pin





M12 to open end pre-wired cables PUR 4 pin

Male straight/open end



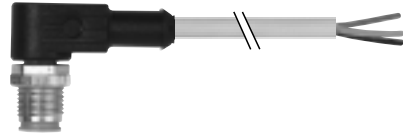
Male straight/open end 1,5 m	FD673U14S74004
Male straight/open end 3,0 m	FD673U14S74007
Male straight/open end 5,0 m	FD673U14S7400B

Female straight/open end



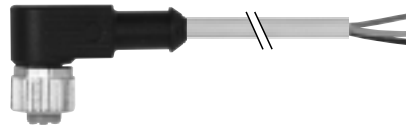
Female straight/open end 1,5 m	FD673U84S74004
Female straight/open end 3,0 m	FD673U84S74007
Female straight/open end 5,0 m	FD673U84S7400B

Male 90°/open end



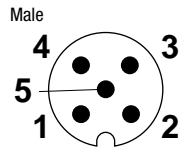
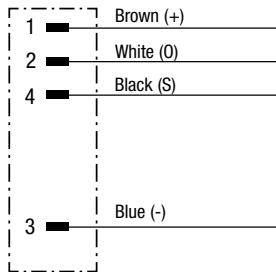
Male 90°/open end 1,5 m	FD673U14A74004
Male 90°/open end 3,0 m	FD673U14A74007
Male 90°/open end 5,0 m	FD673U14A7400B

Female 90°/open end

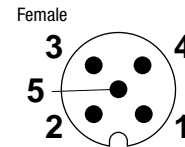
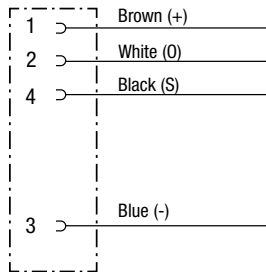


Female 90°/open end 1,5 m	FD673U84A74004
Female 90°/open end 3,0 m	FD673U84A74007
Female 90°/open end 5,0 m	FD673U84A7400B

4 Pin



4 Pin



M8 to open end pre-wired cables PUR 3 pin

Male straight/open end



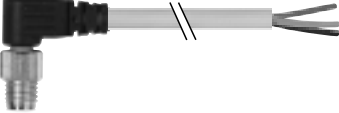
Male straight/open end 1,5 m	FD673U23S73004
Male straight/open end 3,0 m	FD673U23S73007
Male straight/open end 5,0 m	FD673U23S7300B

Female straight/open end



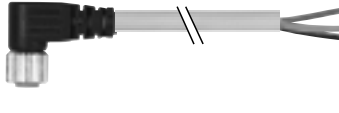
Female straight/open end 1,5 m	FD673U93S73004
Female straight/open end 3,0 m	FD673U93S73007
Female straight/open end 5,0 m	FD673U93S7300B

Male 90°/open end



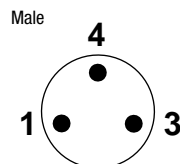
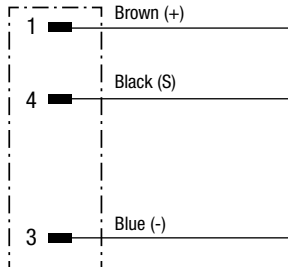
Male 90°/open end 1,5 m	FD673U23A73004
Male 90°/open end 3,0 m	FD673U23A73007
Male 90°/open end 5,0 m	FD673U23A7300B

Female 90°/open end

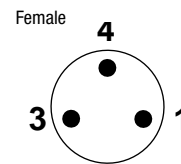
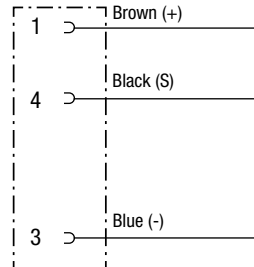


Female 90°/open end 1,5 m	FD673U93A73004
Female 90°/open end 3,0 m	FD673U93A73007
Female 90°/open end 5,0 m	FD673U93A7300B

3 Pin



3 Pin





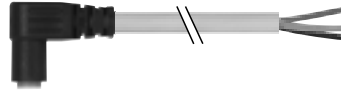
8 mm to open end pre-wired cables PUR 3 pin

Female straight/open end



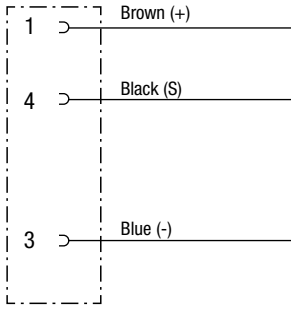
Female straight/open end 1,5 m	FD673U33S73004
Female straight/open end 3,0 m	FD673U33S73007
Female straight/open end 5,0 m	FD673U33S7300B

Female 90°/open end

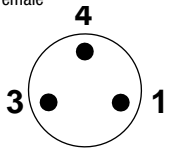


Female 90°/open end 1,5 m	FD673U33A73004
Female 90°/open end 3,0 m	FD673U33A73007
Female 90°/open end 5,0 m	FD673U33A7300B

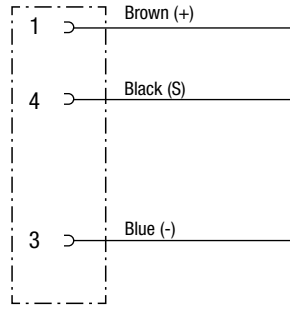
3 Pin



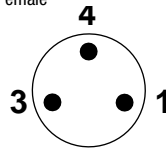
Female



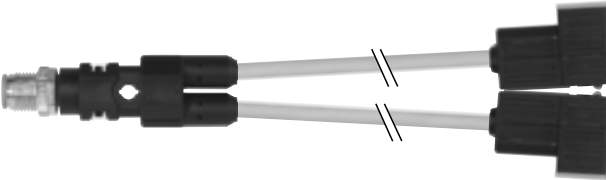
3 Pin



Female

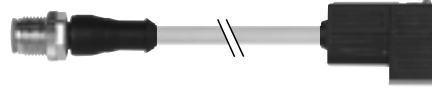


4 pin plug to 2 valve connections

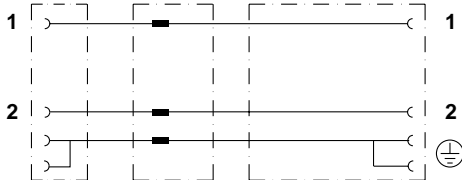


0,3 m cable, type 'C' connector	VE1FBCTCM1203
1 m cable, type 'C' connector	VE1FBCTCM1210
0,3 m cable, industrial connector	VE1FBCTBM1203
1 m cable, industrial connector	VE1FBCTBM1210
0,3 m cable, type 'A' connector	VE1FBCTAM1203
1 m cable, type 'A' connector	VE1FBCTAM1210

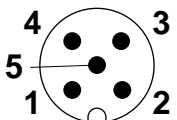
3 pin plug to valve connection



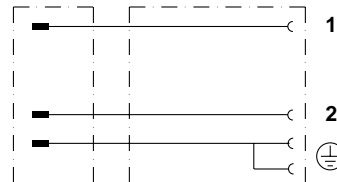
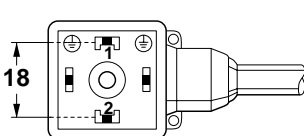
0,3 m cable, type 'C' connector	VE1FBCSCM1203
1 m cable, type 'C' connector	VE1FBCSCM1210
0,3 m cable, industrial connector	VE1FBCSBM1203
1 m cable, industrial connector	VE1FBCSBM1210
0,3 m cable, type 'A' connector	VE1FBCSAM1203
1 m cable, type 'A' connector	VE1FBCSAM1210



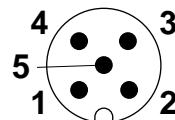
Male



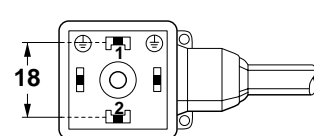
Female



Male



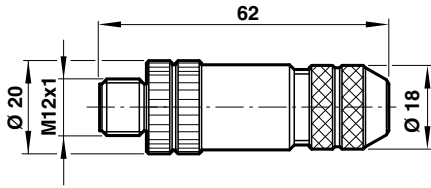
Female



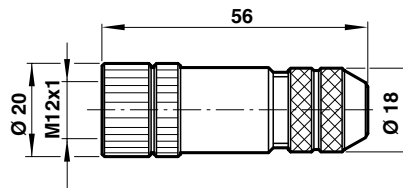


Dimensions

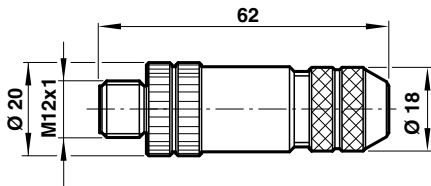
Profibus connector – male



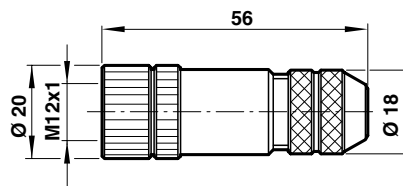
Profibus connector – female



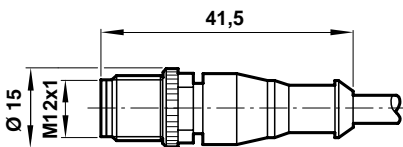
DeviceNet/CANopen connector – male



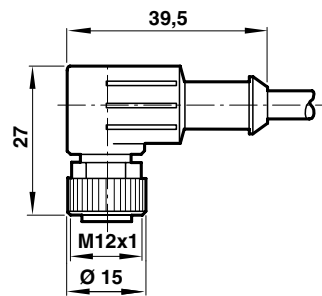
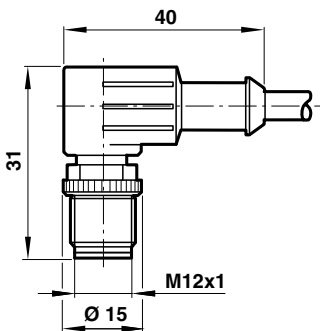
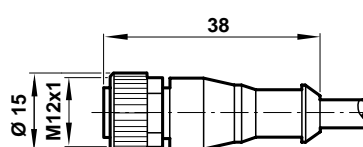
DeviceNet/CANopen connector – female



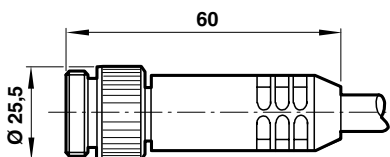
System connectors – male



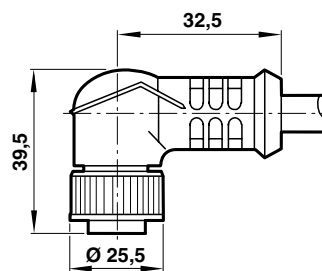
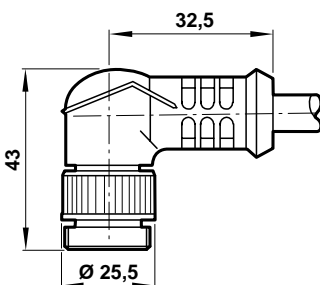
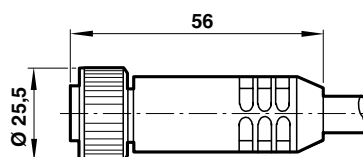
System connectors – female



Fieldbus power pre-wired connectors – male

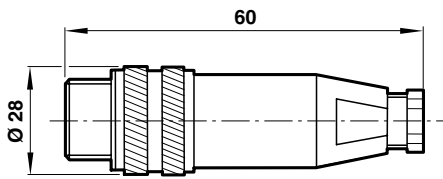


Fieldbus power pre-wired connectors – female

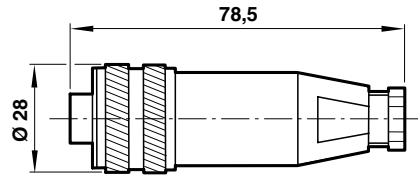




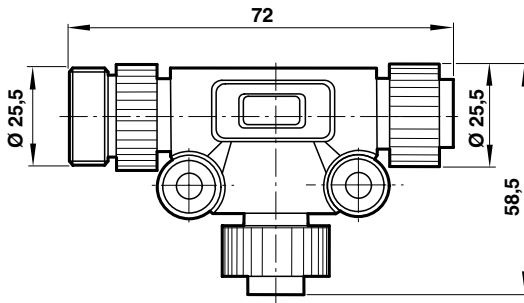
Fieldbus power wireable connector – male



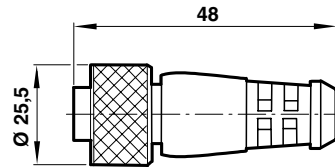
Fieldbus power wireable connector – female



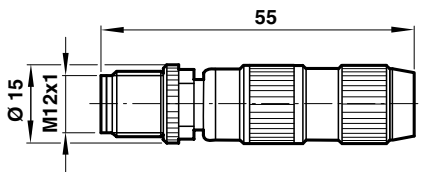
Fieldbus power wireable tee connector



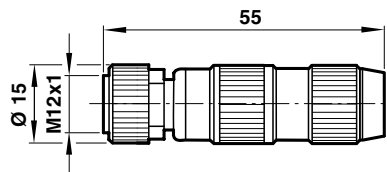
Terminating resistor



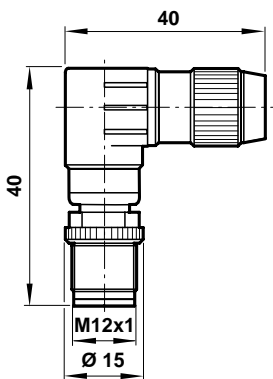
M12 Wireable Mosa connectors – male straight



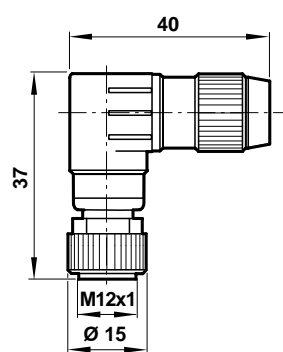
M12 Wireable Mosa connectors – female straight



M12 Wireable Mosa connectors – male 90°

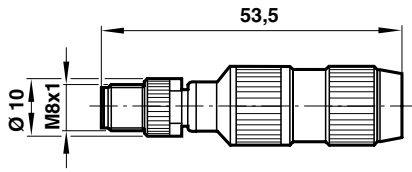


M12 Wireable Mosa connectors – female 90°

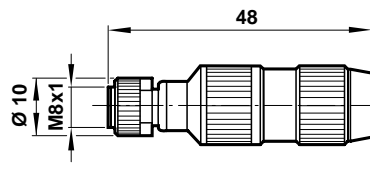




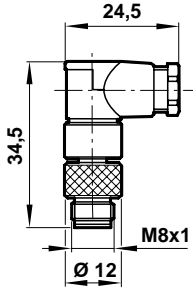
M8 Wireable Mosa connectors – male straight



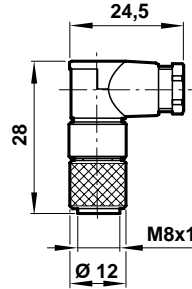
M8 Wireable Mosa connectors – female straight



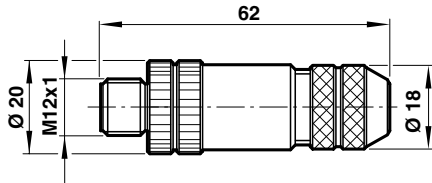
M8 Wireable connectors – male 90°



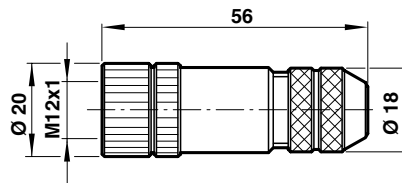
M8 Wireable connectors – female 90°



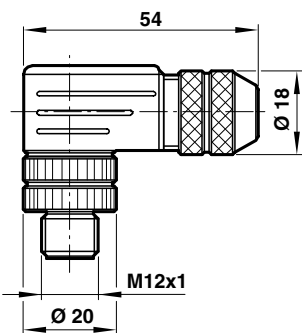
M12 Wireable shielded connectors – male straight



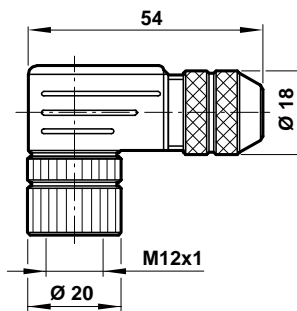
M12 Wireable shielded connectors – female straight



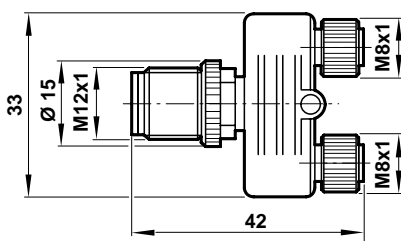
M12 Wireable shielded connectors – male 90°



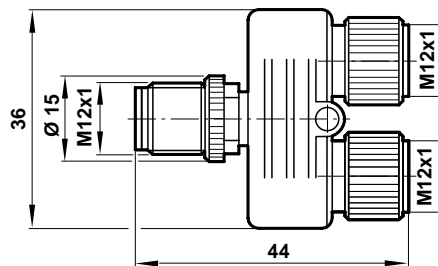
M12 Wireable shielded connectors – female 90°



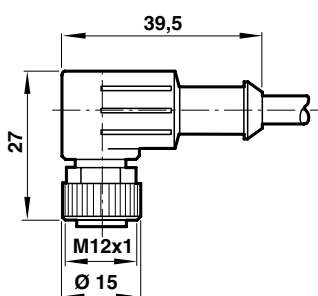
M12 to 2 x M8 Tee connector



M12 to 2 x M12 Tee connector

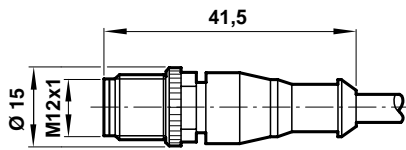


M12 Pre-wired cables – female 90° connector

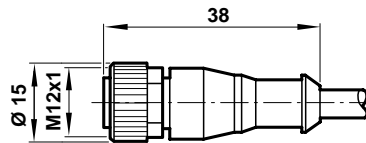




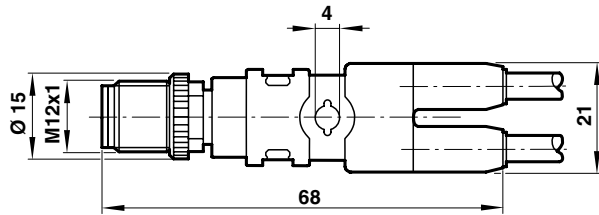
M12 Pre-wired cables – male straight connector



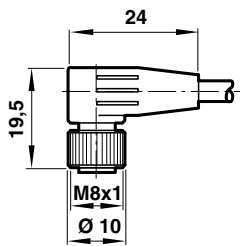
M12 Pre-wired cables – female straight connector



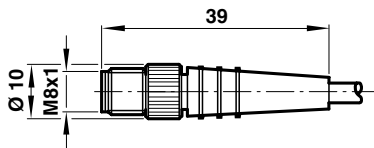
M12 Pre-wired Tee connector



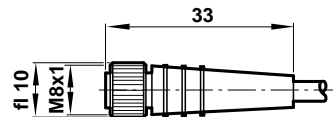
M8 Pre-wired cables – female 90° connector



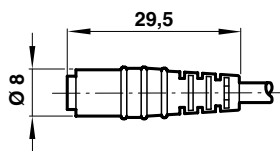
M8 Pre-wired cables – male straight connector



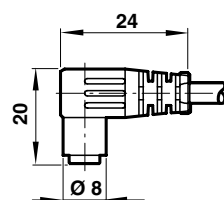
M8 Pre-wired cables – female straight connector



8 mm Snap In – female straight connector



8 mm Snap In – female 90° connector





Technical data

M8 Connector

	Screw fixing		Snap-in	Field wireable Solder pins	Insulation displacement technology
	3 Pin without PE	4 Pin without PE	3/4 Pin without PE	3/4 Pin	3/4 Pin
Operating voltage	Max. 60 V a.c./d.c.	Max. 60 V a.c./d.c.	Max. 50 V a.c./d.c.	Max. 60 V a.c./d.c.	Max. 32 V a.c./d.c.
Rated impulse voltage	1500 V	1500 V	800 V	800 V	800 V
Pollution degree	3	3	3	3	3
Over voltage category	III	III	III	III	III
Insulation class	II	II	II	II	II
Current capacity (supply current) per contact	Max. 4A	Max. 4A	Max. 4A	Max. 4A	Max. 3A
Protection rating	IP67	IP67	IP67	IP67	IP67
Fixing	M8x1 mm (torque 0.6 Nm)	M8x1 mm (torque 0.6 Nm)	8 mm Snap-in	M8x1 mm (torque 0,6 Nm)	M8x1 mm (torque 0,6 Nm)
Temperature range	-25°C to + 85°C	-25°C to + 85°C	-25°C to + 85°C	-40°C to + 85°C	-40°C to + 85°C
Housing	Plastic Good chemical and oil resistance The resistance to aggressive media should be individually proved for your application				

M12 Connector

	Screw fixing		Field wireable Screw pins	Insulation displacement technology	
	3/4 Pin without PE	4 Pin with PE 5 Pin without PE	4/5 Pin with PE	5 Pin shielded	3/4 Pin without PE 3 Pin with PE
Operating voltage	Max. 250 V a.c./d.c.	Max. 125 V a.c./d.c.	250/125 V a.c./d.c.	125 V a.c./d.c.	Max. 32 V a.c./d.c.
Rated impulse voltage	2500 V	1500 V	2500/1500 V	1500 V	800 V
Pollution degree	3	3	3	3	3
Over voltage category	III	III	III	III	III
Insulation class	II	II	II	II	II
Current capacity (supply current) per contact	Max. 4A	Max. 4A	Max. 4A	Max. 4A	Max. 3A
Protection rating	IP67	IP67	–	–	IP67
Fixing	M12x1 mm (torque 0,6 Nm)	M12x1 mm (torque 0,6 Nm)	M12x1 mm (torque 0,6 Nm)	M12x1 mm (torque 0,6 Nm)	M12x1 mm (torque 0,6 Nm)
Temperature range	-25°C to + 85°C	-25°C to + 85°C	-25°C to + 85°C	-40°C to + 85°C	-40°C to + 85°C
Housing	Plastic Good chemical and oil resistance The resistance to aggressive media should be individually proved for your application				

M12 Connector – 6 pin and B coded

	Screw fixing	Field wireable	
	6 Pin shielded/unshielded	B Coded 3 pin with PE, unshielded	B Coded 5 pin shielded
Operating voltage	Max. 24 V a.c./d.c.	Max. 32 V a.c./36 V d.c.	Max. 125 V a.c./d.c.
Rated impulse voltage	1500 V	1500 V	1500 V
Pollution degree	3	3	3
Over voltage category	III	III	III
Insulation class	II	II	II
Current capacity (supply current) per contact	Max. 4A	Max. 1.5A	Max. 4A
Protection rating	IP67	IP67	IP67
Fixing	M12x1 mm (torque 0,6 Nm)	M12x1 mm (torque 0,6 Nm)	M12x1 mm (torque 0,6 Nm)
Temperature range	-25°C to + 85°C	-25°C to + 85°C	-25°C to + 85°C
Housing	Plastic Good chemical and oil resistance The resistance to aggressive media should be individually proved for your application		

7/8" Connector

	Screw fixing		Field wireable
	4/5 Pin	5 Pin shielded with PE	4/5 Pin
Operating voltage	250 V a.c./d.c.	300 V a.c./d.c.	250 V a.c./d.c.
Rated impulse voltage	3000 V	1500 V	4000 V
Pollution degree	3	3	3
Over voltage category	III	III	III
Insulation class	II	II	II
Current capacity (supply current) per contact	5,3 A	5,3 A	9 A
Protection rating	IP67	IP67	IP67
Fixing	7/8"	7/8"	7/8"
Temperature range	-30°C to +80°C	-20°C to +70°C	-40°C to +85°C
Housing	Plastic Good chemical and oil resistance The resistance to aggressive media should be individually proved for your application		