Connectors with cable

Connection type	Connector type	No. of poles	Cable sheath	Cable length (L)						Page
				3 metres	5 metres	10 metres	20 metres	30 metres	Other lengths available	
M8x1 female		4	PVC	VF CA4PD3K	VF CA4PD5K	VF CA4PD10K	VF CA4PD20K	*	VF CA4PD2K 2 metres	210
			PUR	*	VF CA4UD5K	*	*	*	VF CA4UD1K 1 metre VF CA4UD2K 2 metres	
M12x1 male		4	PVC	VF CF4PD3M	*	*	*	*	VF CF4PD2M 2 metres	199
		5	PVC	VF CF5PD3M	VF CF5PD5M	*	*	*	*	
		8	PVC	VF CF8PD3M	VF CF8PD5M	VF CF8PD10M	*	*	*	
		8	PVC	VF CF8PG3M	*	*	*	*	*	
M12x1 female		4	PVC	VF CA4PD3M	VF CA4PD5M	VF CA4PD10M	*	*	VF CA4PD1M 1 metre VF CA4PD2M 2 metres VF CA4PD4M 4 metres	200
			PUR	VF CA4UD3M	VF CA4UD5M	VF CA4UD10M	*	*	VF CA4UD2M 2 metres	
		5	PVC	VF CA5PD3M	VF CA5PD5M	VF CA5PD10M	VF CA5PD20M	VF CA5PD30M	VF CA5PD1M 1 metre VF CA5PD2M 2 metres VF CA5PD4M 4 metres VF CA5PD15M 15 metres VF CA5PD25M 25 metres	
			PUR	VF CA5UD3M	VF CA5UD5M	VF CA5UD10M	*	*	VF CA5UD1M 1 metre VF CA5UD2M 2 metres VF CA5UD15M 15 metres	
		8	PVC	VF CA8PD3M	VF CA8PD5M	VF CA8PD10M	VF CA8PD20M	VF CA8PD30M	VF CA8PD1M 1 metre VF CA8PD2M 2 metres VF CA8PD15M 15 metres	
			PUR	VF CA8UD3M	VF CA8UD5M	VF CA8UD10M	*	VF CA8UD30M VF CA8UD30M-X	VF CA8UD2M 2 metres VF CA8UD15M VF CA8UD15M-X 15 metres VF CA8UD25M VF CA8UD25M-X 25 metres VF CA8UD40M-X 40 metres	
					VF CA8UD5M-X	VF CA8UD10M-X				
		12	PVC	VF CA12PD3M	VF CA12PD5M	VF CA12PD10M	VF CA12PD20M	VF CA12PD30M	VF CA12PD1M 1 metre VF CA12PD2M 2 metres VF CA12PD15M 15 metres VF CA12PD25M 25 metres	
							VF CA12PD20M-X			
			PUR	*	VF CA12UD5M VF CA12UD5M-X	VF CA12UD10M	VF CA12UD20M VF CA12UD20M-X	VF CA12UD30M VF CA12UD30M-X	VF CA12UD1M 1 metre VF CA12UD40M-X 40 metres	
						VF CA12UD10M-X				

Connectors with cable

Connection type	Connector type	No. of poles	Cable sheath	Cable length (L) 3 metres	5 metres	10 metres	20 metres	30 metres	Other lengths available	Page
M12x1 female		4	PVC	VF CA4PG3M	VF CA4PG5M	VF CA4PG10M	*	*	VF CA4PG1M 1 metre VF CA4PG2M 2 metres	200
			PUR	VF CA4UG3M	VF CA4UG5M	*	*	*	VF CA4UG1M 1 metre	
		5	PVC	VF CA5PG3M	VF CA5PG5M	VF CA5PG10M	*	*	VF CA5PG2M 2 metres	
			PUR	VF CA5UG3M	*	VF CA5UG10M	*	*	VF CA5UG2M 2 metres	
		8	PVC	VF CA8PG3M	VF CA8PG5M	VF CA8PG10M	*	*	VF CA8PG2M 2 metres VF CA8PG15M 15 metres	
			PUR	*	*	VF CA8UG10M	*	*	VF CA8UG2M 2 metres	
		12	PVC	*	VF CA12PG5M	VF CA12PG10M	*	*	*	
			PUR	*	VF CA12UG5M	VF CA12UG10M	*	*	VF CA12UG15M 15 metres	
M12x1 extension cable		5	PVC	VF CA5PD3M-MD	VF CA5PD5M-MD	VF CA5PD10M-MD	*	*	VF CA5PD1M-MD 1 metre VF CA5PD2M-MD 2 metres	203
		8	PVC	VF CA8PD3M-MD	VF CA8PD5M-MD	VF CA8PD10M-MD	VF CA8PD20M-MD	*	*	
		12	PVC	*	VF CA12PD5M-MD	VF CA12PD10M-MD	VF CA12PD20M-MD	*	*	
M23x1 female		12	PVC	*	VF CA12PD5S	VF CA12PD10S	VF CA12PD20S	VF CA12PD30S	VF CA12PD1S 1 metre VF CA12PD40S 40 metres	207
		19		*	VF CA19PD5S	VF CA19PD10S	VF CA19PD20S	VF CA19PD30S	VF CA19PD1S 1 metre VF CA19PD2S 2 metres VF CA19PD40S 40 metres	
M23x1 extension cable		19	PVC	*	VF CA19PD5S-SD	VF CA19PD10S-SD	VF CA19PD20S-SD	*	*	209

Table subject to changes. Check online at www.pizzato.com or contact our technical department.

Stock codes	Minimum order quantity	
Normally held in stock	1	
Not in stock	50	100

Codes on request

* Contact our offices

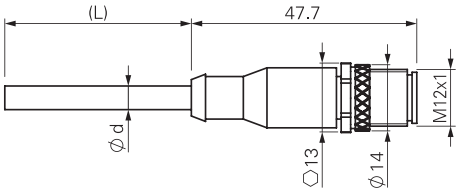
M12 male connectors with cable

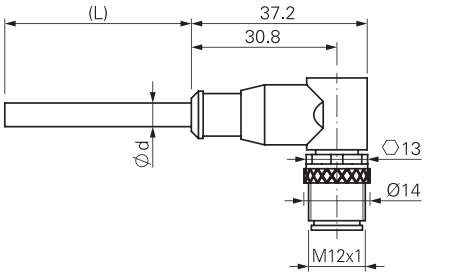


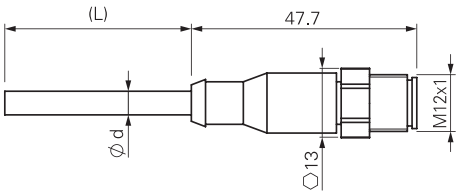
Features:

- Polyurethane connector body
- Class 6 copper conductors acc. to IEC 60228 - mobile installation
- Gold-plated contacts
- Anti-vibration self-locking ring nut
- High flexibility cable with oil resistant PVC or PUR sheath suitable to be used in drag chains, acc. to IEC 60332-1-2

Max. operating voltage:	250 Vac / 300 Vdc (4/5-pole) 30 Vac / 36 Vdc (8/12-pole)
Max. operating current:	4 A (4-5-pole); 2 A (8-pole); 1.5 A (12-pole)
Protection degree:	IP67 acc. to EN 60529, IP69K acc. to ISO 20653 (Protect the cables from direct high-pressure and high-temperature jets)
Ambient temperature:	-25°C … +80°C, PVC sheath, fixed installation -15°C … +80°C, PVC sheath, mobile installation -40°C … +80°C, PUR sheath, fixed installation -25°C … +80°C, PUR sheath, mobile installation
Wire cross-sections:	0.34 mm² (22 AWG) for 4-pole 0.25 mm² (23 AWG) for 5/8-pole 0.14 mm² (26 AWG) for 12-pole
Minimum bending radius:	> cable diameter x 15
Tightening torque of the ring:	0.6 … 0.8 Nm

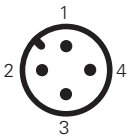




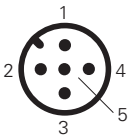


ø d: max. 6 mm

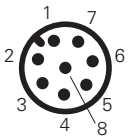
Pin assignment



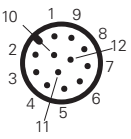
Pin	Colour
1	Brown
2	White
3	Blue
4	Black



Pin	Colour
1	Brown
2	White
3	Blue
4	Black
5	Grey



Pin	Colour
1	White
2	Brown
3	Green
4	Yellow
5	Grey
6	Pink
7	Blue
8	Red



Pin	Colour
1	Brown
2	Blue
3	White
4	Green
5	Pink
6	Yellow
7	Black
8	Grey
9	Red
10	Purple
11	Grey-Pink
12	Red-Blue

Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

article options

VF CF5PD3M-X

No. of poles	
4	4 poles
5	5 poles
8	8 poles
12	12 poles

Cable sheath	
P	PVC (standard)
U	PUR

Connector type	
D	straight (standard)
G	angled

Connection type	
M	M12x1

Cable length (L)	
1	1 metre
2	2 metres
3	3 metres (standard)
4	4 metres
5	5 metres (standard)
...	
10	10 metres (standard)

Other lengths on request.

Fixing ring	
	knurled ring (standard)
X	stainless steel hex ring nut

Stock items

VF CF5PD3M
VF CF8PD3M

Attention! For items not in stock the minimum order quantity is 100 pcs.

ATTENTION: always disconnect the power supply before removing the connector. The connector is not suitable for separation of electrical loads.

All values in the drawings are in mm

→ The 2D and 3D files are available at **www.pizzato.com**

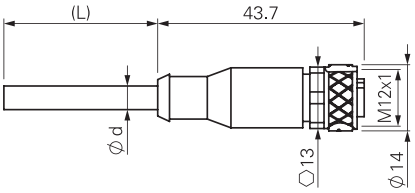
M12 female connectors with cable

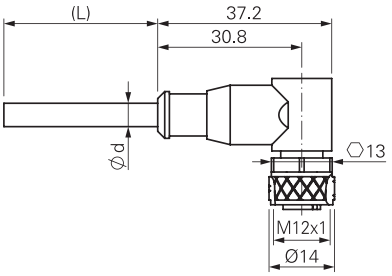


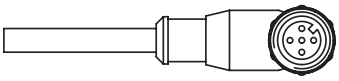
Features:

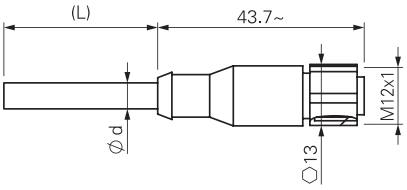
- Polyurethane connector body
- Class 6 copper conductors acc. to IEC 60228 - mobile installation
- Gold-plated contacts
- Anti-vibration self-locking ring nut made of nickel-plated brass, available on request in AISI 316L stainless steel hex version
- High flexibility cable with oil resistant PVC or PUR sheath suitable to be used in drag chains, acc. to IEC 60332-1-2

Max. operating voltage:	250 Vac / 300 Vdc (4/5-pole) 30 Vac / 36 Vdc (8/12-pole)
Max. operating current:	4 A (4-5-pole); 2 A (8-pole); 1.5 A (12-pole)
Protection degree:	IP67 acc. to EN 60529, IP69K acc. to ISO 20653 (Protect the cables from direct high-pressure and high-temperature jets)
Ambient temperature:	-25°C … +80°C, PVC sheath, fixed installation -15°C … +80°C, PVC sheath, mobile installation -40°C … +80°C, PUR sheath, fixed installation -25°C … +80°C, PUR sheath, mobile installation
Wire cross-sections:	0.34 mm² (22 AWG) for 4-pole 0.25 mm² (23 AWG) for 5/8-pole 0.14 mm² (26 AWG) for 12-pole
Minimum bending radius:	> cable diameter x 15
Tightening torque of the ring:	0.6 … 0.8 Nm



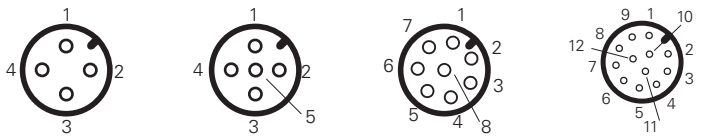






ø d: max. 6 mm

Pin assignment



Pin	Colour	Pin	Colour	Pin	Colour	Pin	Colour
1	Brown	1	Brown	1	White	1	Brown
2	White	2	White	2	Brown	2	Blue
3	Blue	3	Blue	3	Green	3	White
4	Black	4	Black	4	Yellow	4	Green
		5	Grey	5	Grey	5	Pink
				6	Pink	6	Yellow
				7	Blue	7	Black
				8	Red	8	Grey
						9	Red
						10	Purple
						11	Grey-Pink
						12	Red-Blue

Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

article | options

VF CA4PD3M-X

No. of poles	
4	4 poles
5	5 poles
8	8 poles
12	12 poles

Cable sheath	
P	PVC (standard)
U	PUR

Connector type	
D	straight (standard)
G	angled

Cable length (L)	
1	1 metre
2	2 metres
3	3 metres (standard)
4	4 metres
5	5 metres (standard)
...	
10	10 metres (standard)

Other lengths on request.

Connection type	
M	M12x1

Fixing ring	
	knurled ring (standard)
X	stainless steel hex ring nut

Stock items

VF CA4PD3M
VF CA4PD5M
VF CA4PD10M
VF CA5PD3M
VF CA5PD5M
VF CA5PD10M
VF CA8PD3M
VF CA8PD5M
VF CA8PD10M
VF CA8PD20M
VF CA12PD3M
VF CA12PD5M
VF CA12PD10M
VF CA12PD20M
VF CA12PD30M

Attention! For items not in stock the minimum order quantity is 100 pcs.

ATTENTION: always disconnect the power supply before removing the connector. The connector is not suitable for separation of electrical loads.

All values in the drawings are in mm

➔ The 2D and 3D files are available at **www.pizzato.com**

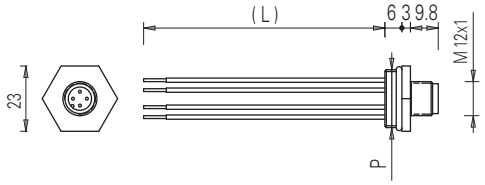
M12 male connectors for panel mounting



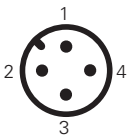
Features:

- Technopolymer or metal connector body
- Gold-plated contacts
- Wires with crimped ferrules
- Directly installable on the device, these ensure quick replacement, reducing machine down time

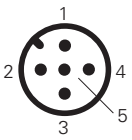
Max. operating voltage:	250 Vac / 300 Vdc (4/5-pole) 30 Vac / 36 Vdc (8/12-pole)
Max. operating current:	4 A (4/5-pole) 2 A (8-pole) 1.5 A (12-pole)
Protection degree:	IP67 acc. to EN 60529 IP69K acc. to ISO 20653
Ambient temperature:	-25°C … +80°C
Tightening torque:	1 … 1.5 Nm
Wire cross-sections:	0.5 mm² (20 AWG) for 4/5-pole 0.25 mm² (23 AWG) for 8-pole 0.14 mm² (26 AWG) for 12-pole
Contact type:	gold-plated



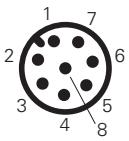
Pin assignment



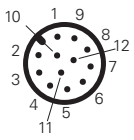
Pin	Colour
1	Brown
2	White
3	Blue
4	Black



Pin	Colour
1	Brown
2	White
3	Blue
4	Black
5	Grey



Pin	Colour
1	White
2	Brown
3	Green
4	Yellow
5	Grey
6	Pink
7	Blue
8	Red



Pin	Colour
1	Brown
2	Blue
3	White
4	Green
5	Pink
6	Yellow
7	Black
8	Grey
9	Red
10	Purple
11	Grey-Pink
12	Red-Blue

Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

article — options

VF CNM5MM-L100

Body material	
M	metal
P	plastic

No. of poles	
4	4 poles
5	5 poles
8	8 poles
12	12 poles

Connection type	
M	M12x1

Connector thread (P)	
M	M20 x 1.5 (standard)
P	PG 13.5

Wire length (L)	
	8.5 cm (standard)
L16	16 cm
L100	100 cm
L200	200 cm

Stock items

VF CNP4MM
VF CNP4PM
VF CNP5MM
VF CNP5PM
VF CNP8MM
VF CNM4MM
VF CNM4PM
VF CNM5MM
VF CNM5PM
VF CNM8MM
VF CNM8PM
VF CNM12MM-L16

ATTENTION: always disconnect the power supply before removing the connector. The connector is not suitable for separation of electrical loads.
Note: the 12-pole connector is only available in metal with M20x1.5 thread and 16 cm wires.

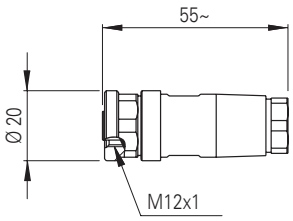
All values in the drawings are in mm

→ The 2D and 3D files are available at **www.pizzato.com**

Field wireable M12 female connectors



Features:
- Technopolymer connector body
- Gold-plated contacts
- Screw terminals for cable screw fittings



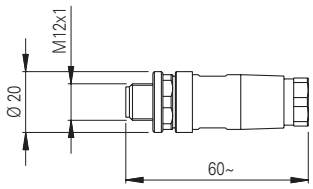
Max. operating voltage:	250 Vac/dc (4 and 5-pole) 30 Vac/dc (8-pole)
Max. operating current:	4 A (4 and 5-pole) 2 A (8-pole)
Protection degree:	IP67 acc. to EN 60529
Ambient temperature:	-25°C ... +85°C
Wire cross-sections:	0.25 mm² (23 AWG) … 0.5 mm² (20 AWG)
Tightening torque of the ring:	0.6 … 0.8 Nm

Article	Description	no. of poles
VF CBMP4DM04	Field wireable M12 female connector, straight, for Ø 4 … Ø 6.5 mm multipolar cables	4
VF CBMP5DM04	Field wireable M12 female connector, straight, for Ø 4 … Ø 6.5 mm multipolar cables	5
VF CBMP8DM04	Field wireable M12 female connector, straight, for Ø 4 … Ø 7 mm multipolar cables	8

Field wireable M12 male connectors



Features:
- Technopolymer connector body
- Gold-plated contacts
- Screw terminals for cable screw fittings



Max. operating voltage:	250 Vac/dc (5-pole) 30 Vac/dc (8-pole)
Max. operating current:	4 A (5-pole) 2 A (8-pole)
Protection degree:	IP67 acc. to EN 60529
Ambient temperature:	-25°C ... +85°C
Wire cross-sections:	0.25 mm² (23 AWG) … 0.5 mm² (20 AWG)
Tightening torque of the ring:	0.6 … 0.8 Nm

Article	Description	no. of poles
VF CCMP5DM04	Field wireable M12 male connector, straight, for Ø 4 ... Ø 6.5 mm multipolar cables	5
VF CCMP8DM04	Field wireable M12 male connector, straight, for Ø 4 ... Ø 7 mm multipolar cables	8

ATTENTION: always disconnect the power supply before removing the connector. The connector is not suitable for separation of electrical loads.

All values in the drawings are in mm

➔ The 2D and 3D files are available at **www.pizzato.com**

Series connection with Y-shaped M12 connectors

To facilitate and simplify the series wiring of the safety devices, a variety of accessories designed specifically for this purpose are available. With the help of the proven M12 round connector, safety equipment of Category 4, SIL 3 and PL e with up to 32 elements connected in series is possible. All of which is possible without the risk of connection errors and with a high IP67 protection degree.

The safety circuits consist of a 24 Vdc power supply unit, a number of extensions to the installed devices, Y connectors for branching out from the chain to each individual device and a terminating plug.

In addition to the power supply unit, a suitable safety module is used to assess the state of the safety outputs within the safety chain.

Devices suitable for series connection

The series may consist both of devices that are identical to one another (homogeneous series) or that belong to different series (mixed series).

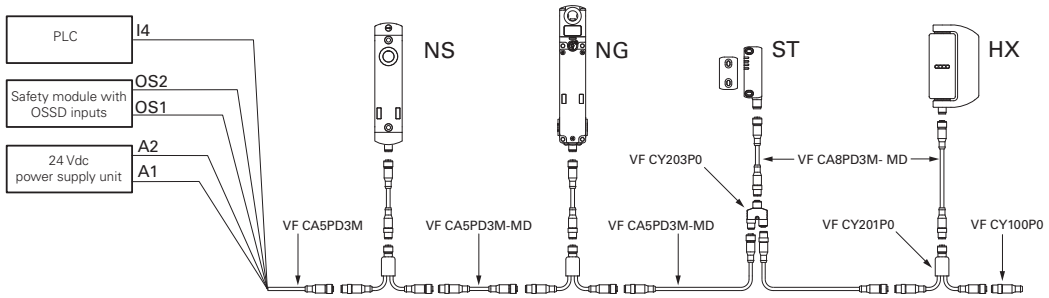
The following Pizzato Elettrica devices may be connected in series using the Y connectors:

- ST series RFID safety sensors: ST ••31•M•, ST ••71•M•.
- NG series RFID safety switches with lock: NG ••••••••-K950, NG ••••••••-K951, NG ••••••••-K952.
- NS series RFID safety switches with lock: NS ••••••Q•.
- HX series safety hinge switches: HX BEE1-••M.

Electrical connection of the chain

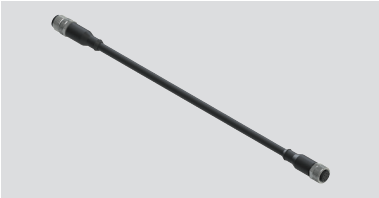
Pin	Colour	Connection	
1	Brown	A1	Supply input +24 Vdc
2	White	OS1	Safety output
3	Blue	A2	Supply input 0 V
4	Black	OS2	Safety output
5	Grey	I4	Solenoid activation input

Note: By activating/deactivating input I4, all switches of the NG and NS series in the chain simultaneously block/open all guards. Activation and deactivation of input I4 has no effect on the ST sensors and HX hinges in the chain.



Attention! For proper operation of the devices connected in series via cables or Y connectors, it is necessary to pay particular attention to the voltage drop that occurs in the circuit. Pay particular attention to the currents and cross-sections/lengths of the used cables to ensure that the supply voltage of the components at the end of the series connection remains within the specified limit values during effective operation.

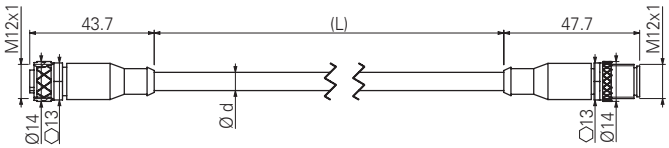
M12 extension cables with male and female connector



Features:

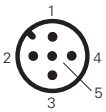
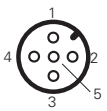
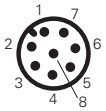
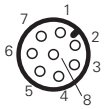
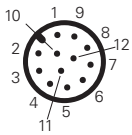
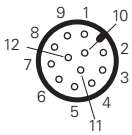
- Polyurethane connector body
- Class 6 copper conductors acc. to IEC 60228
- Gold-plated contacts
- Anti-vibration self-locking ring nut
- High flexibility cable with oil resistant PVC sheath suitable to be used in drag chains, acc. to IEC 60332-1-2

Max. operating voltage:	250 Vac / 300 Vdc (5-pole) 30 Vac / 36 Vdc (8/12-pole)
Max. operating current:	4 A (5-pole); 2 A (8-pole); 1.5 A (12-pole)
Protection degree:	IP67 acc. to EN 60529 IP69K acc. to ISO 20653 (Protect the cables from direct high-pressure and high-temperature jets)
Ambient temperature:	-25°C … +80°C for fixed installation -15°C … +80°C for mobile installation
Wire cross-sections:	0.5 mm² (20 AWG) (5-pole) 0.25 mm² (23 AWG) (8-pole) 0.14 mm² (26 AWG) (12-pole)
Minimum bending radius:	> cable diameter x 15
Tightening torque of the ring:	0.6 … 0.8 Nm



ø d: 6.5 mm for 5-pole
5.6 mm for 8-pole
5.8 mm for 12-pole

Pin assignment

5 poles male	5 poles female
	
8 poles male	**8 poles female**
	
12 poles male	**12 poles female**
	

Code structure

VF CA5PD3M-MD

No. of poles	
5	5 poles
8	8 poles
12	12 poles

Connection type	
M	M12x1

Cable sheath	
P	PVC

Cable length (L)	
3	3 metres (standard)
5	5 metres (standard)
10	10 metres (standard)

Other lengths on request.

Connector type	
D	straight

Stock items

VF CA5PD3M-MD
VF CA5PD5M-MD
VF CA5PD10M-MD
VF CA8PD3M-MD
VF CA8PD5M-MD
VF CA8PD10M-MD
VF CA12PD5M-MD
VF CA12PD10M-MD
VF CA12PD20M-MD

Attention! For items not in stock the minimum order quantity is 100 pcs.

ATTENTION: always disconnect the power supply before removing the connector. The connector is not suitable for separation of electrical loads.

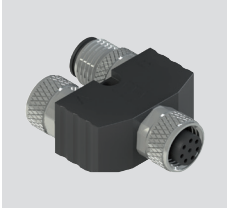
All values in the drawings are in mm

➔ The 2D and 3D files are available at **www.pizzato.com**

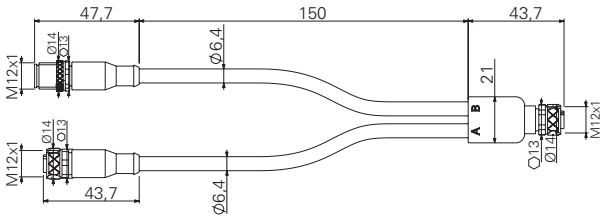
M12 connectors, Y-shaped, for series connections

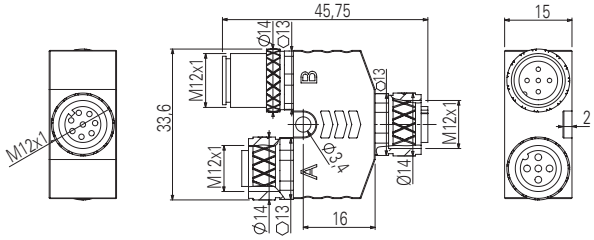


Article	Description
VF CY201P0	Y-cable with M12 connectors, for series connections, 150 mm cable length



Article	Description
VF CY203P0	M12 connector, Y-shaped, for series connections without cable

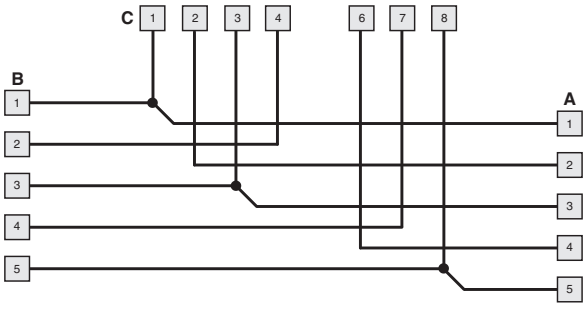




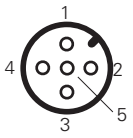
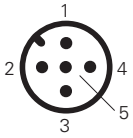
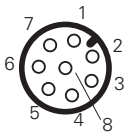
Features:
- Polyurethane connector body
- Gold-plated contacts
- Anti-vibration self-locking ring nut
- Class 6 copper conductors acc. to IEC 60228
- High flexibility cable with oil resistant PVC sheath suitable to be used in drag chains, acc. to IEC 60332-1-2

Max. operating voltage:	30 Vac / 36 Vdc
Max. operating current:	4 A (5-pole) 2 A (8-pole)
Protection degree:	IP67 acc. to EN 60529
Ambient temperature:	-25°C … +80°C for fixed installation -15°C … +80°C for mobile installation
Wire cross-sections:	0.5 mm² (20 AWG)
Minimum bending radius:	> cable diameter x 15
Tightening torque of the ring:	0.6 … 0.8 Nm

Internal wiring diagram, Y-shaped connector



Pin assignment

(A) M12, 5-pole female	(B) M12, 5-pole male	(C) M12, 8-pole female
		

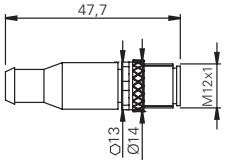
IMPORTANT: When used in safety applications, the Y connectors must be installed in a location that is not directly accessible, so as to avoid shocks or tampering.

M12 terminating plugs for series connections

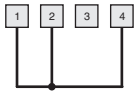


Features:
- Polyurethane connector body
- Gold-plated contacts
- Anti-vibration self-locking ring nut

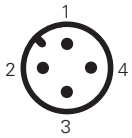
Max. operating voltage:	250 Vac / 300 Vdc
Max. operating current:	4 A
Protection degree:	IP67 acc. to EN 60529
Tightening torque of the ring:	0.6 … 0.8 Nm



Internal wiring diagram of the terminating plug



Pin assignment

4-pole male


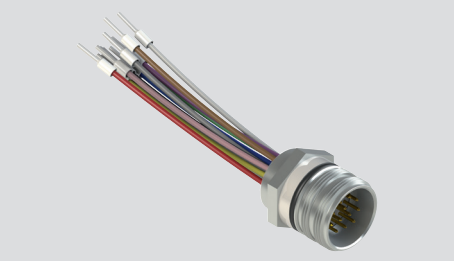
Article	Description
VF CY100P0	M12 terminating plugs for series connections, 4-pole

ATTENTION: always disconnect the power supply before removing the connector. The connector is not suitable for separation of electrical loads.

All values in the drawings are in mm

➔ The 2D and 3D files are available at **www.pizzato.com**

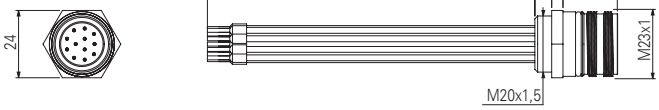
M23 male connectors for panel mounting



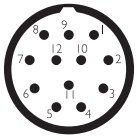
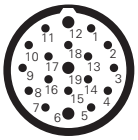
Features:

- Threaded connection M20 for installation on switches with M20 cable entry (for example: FG series and NG series)
- Nickel-plated metal connector body
- Gold-plated contacts
- 12-pole or 19-pole versions
- Wires with pre-insulated ferrules
- Directly installable on the device, these ensure quick replacement, reducing machine down time

Max. operating voltage:	250 Vac (12-pole) 100 Vac (19-pole)
Max. operating current:	3 A
Protection degree:	IP67 acc. to EN 60529 IP69K acc. to ISO 20653
Ambient temperature:	-25°C … +80°C
Tightening torque:	1 … 1.5 Nm
Wire cross-section:	0.34 mm² (22 AWG)
Contact type:	gold-plated



Pin assignment

12 poles		19-pole			
					
Pin	Colour	Pin	Colour	Pin	Colour
1	White	1	White	13	White-Green
2	Brown	2	Brown	14	Brown-Green
3	Green	3	Green	15	White-Yellow
4	Yellow	4	Yellow	16	Yellow-Brown
5	Grey	5	Grey	17	White-Grey
6	Pink	6	Pink	18	Grey-Brown
7	Blue	7	Blue	19	White-Pink
8	Red	8	Red		
9	Black	9	Black		
10	Purple	10	Purple		
11	Grey-Pink	11	Grey-Pink		
12	Red-Blue	12	Red-Blue		

Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

VF CNM12MT-L10

Body material	
M	metal

No. of poles	
12	12 poles
19	19-pole

Wire length (L)	
L10	10 cm
L16	16 cm

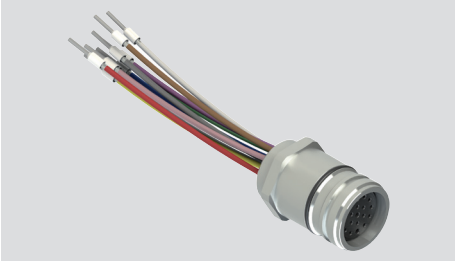
Note:
For applications with NG series switches, use connectors with L10 wire length.
For applications with FG series switches, use connectors with L16 wire length.

ATTENTION: always disconnect the power supply before removing the connector. The connector is not suitable for separation of electrical loads.

All values in the drawings are in mm

➔ The 2D and 3D files are available at **www.pizzato.com**

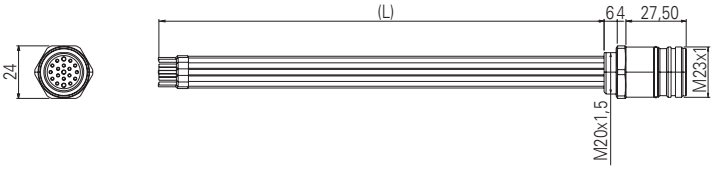
M23 female connectors for panel mounting



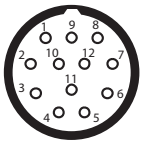
Features:

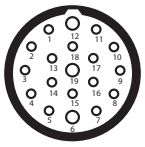
- Threaded connection M20
- Nickel-plated metal connector body
- Gold-plated contacts
- 12-pole or 19-pole versions
- Wires with pre-insulated ferrules
- Directly installable on the device, these ensure quick replacement, reducing machine down time

Max. operating voltage:	250 Vac (12-pole) 100 Vac (19-pole)
Max. operating current:	3 A
Protection degree:	IP67 acc. to EN 60529 IP69K acc. to ISO 20653
Ambient temperature:	-25°C … +80°C
Tightening torque:	1 … 1.5 Nm
Wire cross-section:	0.34 mm² (22 AWG)
Contact type:	gold-plated



Pin assignment





12 poles		19-pole			
Pin	Colour	Pin	Colour	Pin	Colour
1	White	1	White	13	White-Green
2	Brown	2	Brown	14	Brown-Green
3	Green	3	Green	15	White-Yellow
4	Yellow	4	Yellow	16	Yellow-Brown
5	Grey	5	Grey	17	White-Grey
6	Pink	6	Pink	18	Grey-Brown
7	Blue	7	Blue	19	White-Pink
8	Red	8	Red		
9	Black	9	Black		
10	Purple	10	Purple		
11	Grey-Pink	11	Grey-Pink		
12	Red-Blue	12	Red-Blue		

Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

VF CPM12MT-L10

Body material	
M	metal

No. of poles	
12	12 poles
19	19-pole

Wire length (L)	
L10	10 cm
L20	20 cm

ATTENTION: always disconnect the power supply before removing the connector. The connector is not suitable for separation of electrical loads.

All values in the drawings are in mm

➔ The 2D and 3D files are available at **www.pizzato.com**

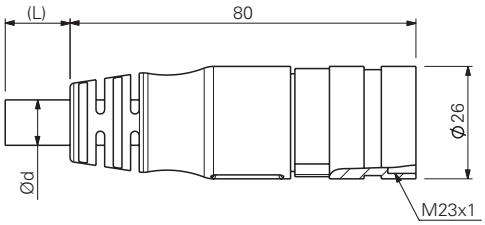
M23 female connectors with cable



Features:

- Polyurethane connector body
- Class 5 tin-plated copper conductors acc. to IEC 60228 (12-pole)
- Class 5 tin-plated copper conductors acc. to IEC 60228 (19-pole)
- Gold-plated contacts
- Anti-vibration self-locking ring nut
- Cable with PVC sheath acc. to IEC 60332-1-2 (flame retardant)

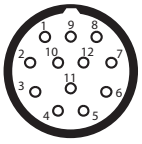
Max. operating voltage:	160 Vac (12-pole) 63 Vac (19-pole)
Maximum operating current with 12 poles:	5 A x 0.5 mm² (20 AWG), the currents are per conductor
Maximum operating current with 19 poles:	8 A x 0.75 mm² + 4 A x 0.34 mm² (22 AWG), the currents are per conductor
Protection degree:	IP67 acc. to EN 60529 IP69K acc. to ISO 20653 (Protect the cables from direct high-pressure and high-temperature jets)
Ambient temperature:	-5°C ... +70°C
Wire cross-section:	12x0,5 mm² (12-pole) 17x0.34 mm² + 2x0.75 mm² (19-pole)
Minimum bending radius:	> cable diameter x 15
Tightening torque of the ring:	1 … 1.5 Nm



ø d: 10.5 mm

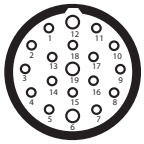
Pin assignment

12 poles



Pin	Colour
1	White
2	Brown
3	Green
4	Yellow
5	Grey
6	Pink
7	Blue
8	Red
9	Black
10	Purple
11	Grey-Pink
12	Red-Blue

19-pole



Pin	Colour	Pin	Colour
1	White	13	White-Green
2	Brown	14	Brown-Green
3	Green	15	White-Yellow
4	Yellow	16	Yellow-Brown
5	Grey	17	White-Grey
6	Pink	18	Grey-Brown
7	Blue	19	White-Pink
8	Red		
9	Black		
10	Purple		
11	Grey-Pink		
12	Red-Blue		

Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

VF CA12PD20S

No. of poles	
12	12 poles
19	19-pole

Cable sheath	
P	PVC

Connector type	
D	straight

Connection type	
S	M23x1

Cable length (L)	
5	5 metres
10	10 metres
20	20 metres
30	30 metres

Other lengths on request.

Stock items

VF CA12PD10S
VF CA12PD20S
VF CA12PD30S
VF CA19PD5S
VF CA19PD10S
VF CA19PD20S
VF CA19PD30S

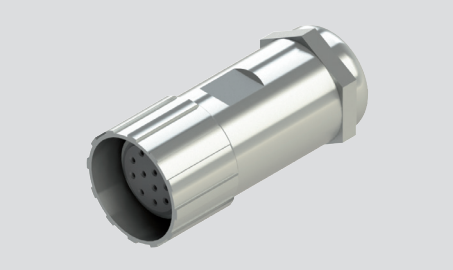
Attention! For items not in stock the minimum order quantity is 50 pcs.

ATTENTION: always disconnect the power supply before removing the connector. The connector is not suitable for separation of electrical loads.

All values in the drawings are in mm

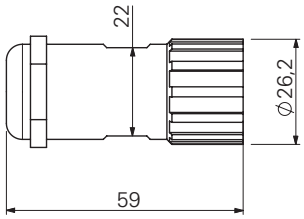
→ The 2D and 3D files are available at **www.pizzato.com**

Field wireable M23 female connectors



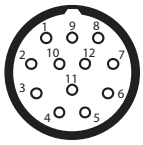
Features:
- Nickel-plated metal connector body
- Gold-plated contacts
- 12-pole or 19-pole versions

Max. operating voltage:	250 Vac (12-pole) 100 Vac (19-pole)
Max. operating current:	8 A
Protection degree:	IP67 acc. to EN 60529 IP69K acc. to ISO 20653
Ambient temperature:	-40°C ... +125°C
Tightening torque of the ring:	1 … 1.5 Nm
Pollution degree:	3

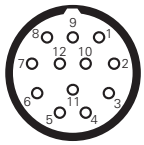


Pin configuration

12 poles

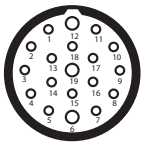


clockwise numbering



counterclockwise numbering

19-pole



clockwise numbering



Article	Description
VF AC2205	Mounting key

Note: Article required for opening and wiring of connector.

Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

VF CBSM12TC07

Connection type	
S	M23x1

Body material	
M	metal

No. of poles	
12	12 poles
19	19-pole

Connector type	
T	straight, clockwise numbering (standard)
D	straight, counterclockwise numbering

Cable diameter	
07	Ø 7 … Ø 12 mm

Pin connection type	
C	crimp connection (standard) 0.34 … 1 mm²
S	solder connection 0.34 … 1 mm²

Note: Use appropriate crimp pliers for crimp connections (e.g., Knipex, article number 97 52 63).

Stock items

VF CBSM12TC07
VF CBSM19TC07
VF CBSM12TS07

ATTENTION: always disconnect the power supply before removing the connector. The connector is not suitable for separation of electrical loads.

All values in the drawings are in mm

➔ The 2D and 3D files are available at **www.pizzato.com**

M23 extension cables with male and female connector

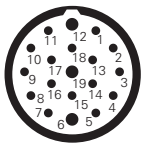
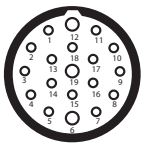


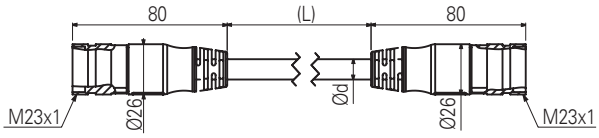
Features:

- Polyurethane connector body
- Class 5 tin-plated copper conductors acc. to IEC 60228
- Gold-plated contacts
- Anti-vibration self-locking ring nut
- Cable with PVC sheath acc. to IEC 60332-1-2 (flame retardant)

Max. operating voltage:	63 Vac
Maximum operating current with 19 poles:	8 A x 0.75 mm² + 4 A x 0.34 mm² (22 AWG), the currents are per conductor
Protection degree:	IP67 acc. to EN 60529 IP69K acc. to ISO 20653 (Protect the cables from direct high-pressure and high-temperature jets)
Ambient temperature:	-5°C ... +70°C
Wire cross-section:	17x0.34 mm² + 2x0.75 mm²
Minimum bending radius:	> cable diameter x 15
Tightening torque of the ring:	1 … 1.5 Nm

Pin assignment

19-pole male	19-pole female
	



Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

VF CA19PD5S-SD

No. of poles	
19	19-pole

Cable sheath	
P	PVC

Connector type	
D	straight

Connection type	
S	M23x1

Cable length (L)	
5	5 metres
10	10 metres
20	20 metres

Other lengths on request.

Stock items

- VF CA19PD5S-SD
- VF CA19PD10S-SD
- VF CA19PD20S-SD

ATTENTION: always disconnect the power supply before removing the connector. The connector is not suitable for separation of electrical loads.

All values in the drawings are in mm

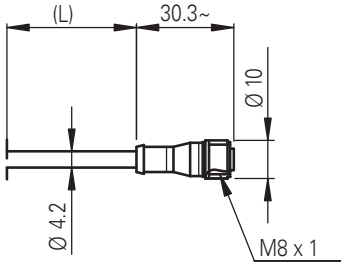
→ The 2D and 3D files are available at **www.pizzato.com**

M8 female connectors with cable



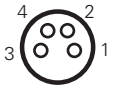
Features:
- Polyurethane connector body
- Class 6 copper conductors acc. to IEC 60228
- Gold-plated contacts
- Anti-vibration self-locking ring nut
- High flexibility cable with oil resistant PVC or PUR sheath suitable to be used in drag chains, acc. to IEC 60332-1-2

Max. operating voltage:	60 Vac / 75 Vdc
Max. operating current:	4 A
Protection degree:	IP67 acc. to EN 60529 IP69K acc. to ISO 20653 (Protect the cables from direct high-pressure and high-temperature jets)
Ambient temperature:	-25°C … +80°C for fixed installation -15°C … +80°C for mobile installation
Wire cross-sections:	0.25 mm² (23 AWG)
Minimum bending radius:	> cable diameter x 15
Tightening torque of the ring:	0.3 … 0.5 Nm



Pin assignment

4 poles



Pin	Colour
1	Brown
2	White
3	Blue
4	Black

Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

VF CA4PD3K

No. of poles	
4	4 poles

Cable sheath	
P	PVC (standard)
U	PUR

Connector type	
D	straight

Connection type	
K	M8x1

Cable length (L)	
1	1 metre
2	2 metres
3	3 metres (standard)
4	4 metres
5	5 metres (standard)
…	
10	10 metres

Other lengths on request.

Stock items

VF CA4PD3K
VF CA4PD5K

Attention!
For items not in stock the minimum order quantity is 100 pcs.

ATTENTION: always disconnect the power supply before removing the connector. The connector is not suitable for separation of electrical loads.

All values in the drawings are in mm

➔ The 2D and 3D files are available at **www.pizzato.com**

Strain relief cable glands

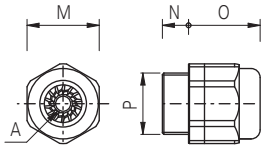
Packs of **10 pcs.**



This particular design ensures high resistance to traction of the cable glands. All cable glands are also suitable for a wide range of cable diameters.
Suitable for circular cross-section cables only.

Features:

Body and ring material:	technopolymer without halogen
Protection degree:	IP67 acc. to EN 60529
Tightening torque:	3 … 4 Nm (PG 13.5/M20) 2 … 2.5 Nm (PG 11/M16) 5 … 5.5 Nm (M25)



	Article	Description	A	⬡M	N	O	P
Metric threads	VF PAM25C7N	Cable gland M25x1.5 for a cable from Ø 10 to Ø 17 mm	○	33	10	28	M25x1.5
	VF PAM20C6N	M20x1.5 cable gland for one cable Ø 6 … 12 mm	○	24	9	24	M20x1.5
	VF PAM20C5N	M20x1.5 cable gland for one cable Ø 5 … 10 mm	●	24	9	24	M20x1.5
	VF PAM20C3N	M20x1.5 cable gland for one cable Ø 3 … 7 mm	●	24	9	24	M20x1.5
	VF PAM16C5N	M16x1.5 cable gland for one cable Ø 5 … 10 mm	○	22	7.5	23	M16x1.5
	VF PAM16C4N	M16x1.5 cable gland for one cable Ø 4 … 8 mm	●	22	7.5	23	M16x1.5
	VF PAM16C3N	M16x1.5 cable gland for one cable Ø 3 … 7 mm	●	22	7.5	23	M16x1.5
	VF PAM20CBN	M20x1.5 multi-hole cable gland for 2 cables Ø 3 … 5 mm	●	24	9	23	M20x1.5
	VF PAM20CDN	M20x1.5 multi-hole cable gland for 3 cables Ø 1 … 4 mm	●	24	9	23	M20x1.5
	VF PAM20CEN	M20x1.5 multi-hole cable gland for 3 cables Ø 3 … 5 mm	●	24	9	23	M20x1.5
	VF PAM20CFN	M20x1.5 multi-hole cable gland for 4 cables Ø 1 … 4 mm	●	22	9	23	M20x1.5
PG threads	VF PAP13C6N	PG 13.5 cable gland for one cable from Ø 6 … 12 mm	○	24	9	24	PG 13.5
	VF PAP13C5N	PG 13.5 cable gland for one cable from Ø 5 … 10 mm	●	24	9	24	PG 13.5
	VF PAP13C3N	PG 13.5 cable gland for one cable from Ø 3 … 7 mm	●	24	9	24	PG 13.5
	VF PAP11C5N	PG 11 cable gland for one cable from Ø 5 … 10 mm	○	22	7.5	23	PG 11
	VF PAP11C4N	PG 11 cable gland for one cable from Ø 4 … 8 mm	●	22	7.5	23	PG 11
	VF PAP11C3N	PG 11 cable gland for one cable from Ø 3 … 7 mm	●	22	7.5	23	PG 11

Thread adapters

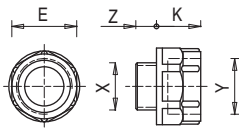
Packs of **100 pcs.**



Thread adapters make it possible to fulfil requests for switches with a different thread to those generally found in stock. This means it is possible to offer customers a single product type with various threaded connections, while only having to stock the product itself and many kinds of adapters.

Features:

Body material:	glass fibre reinforced technopolymer
Tightening torque:	3 … 4 Nm



Article	Description	X	Y	Z	K	⬡E
VF ADPG13-PG11	Adapter from PG 13.5 to PG 11	PG 13.5	PG 11	9	12	22
VF ADPG13-M20	Adapter from PG 13.5 to M20x1.5	PG 13.5	M20x1.5	9	14	24
VF ADPG13-1/2NPT	Adapter from PG 13.5 to 1/2 NPT	PG 13.5	1/2 NPT	9	14	24
VF ADPG11-1/2NPT	Adapter from PG 11 to 1/2 NPT	PG 11	1/2 NPT	7	14	24
VF ADPG11-PG13	Adapter from PG 11 to PG 13.5	PG 11	PG 13.5	7	14	24
VF ADM20-1/2NPT	Adapter from M20x1.5 to 1/2 NPT	M20x1.5	1/2 NPT	9	14	24

All values in the drawings are in mm

→ The 2D and 3D files are available at **www.pizzato.com**

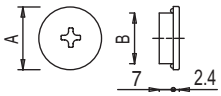
Protection caps

Packs of **10 pcs.**



Features:

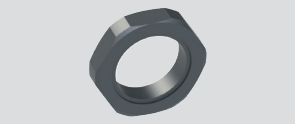
Body material:	technopolymer, self-extinguishing
Protection degree:	IP67 acc. to EN 60529 IP69K acc. to ISO 20653
Tightening torque:	1.2 … 1.6 Nm
Cross-recessed screw:	PH3



Article	Description	A	B
VF PTM20	Protection cap M20x1.5	24	M20x1.5
VF PTG13.5	Protection cap PG13.5	24	PG 13.5

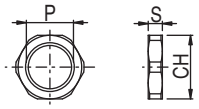
Threaded nuts

Packs of **10 pcs.**



Features:

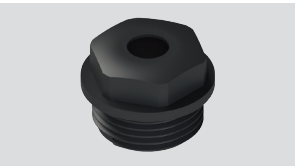
Tightening torque:	1.2 … 2 Nm



	Article	Description	S	CH	P
Plastic	VF DFPM25	M25x1.5 threaded technopolymer nut	6	32	M25x1.5
	VF DFPM20	M20x1.5 threaded technopolymer nut	6	27	M20x1.5
	VF DFPM16	M16x1.5 threaded technopolymer nut	5	22	M16x1.5
	VF DFPP13	PG13.5 threaded technopolymer nut	6	27	PG 13.5
Metal	VF DFMM20	M20x1.5 threaded nut in nickel-plated brass	3	23	M20x1.5

Chock plugs

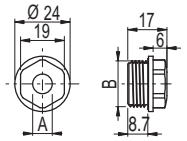
Packs of **100 pcs.**



Features:

Body material:	technopolymer
Protection degree:	IP54 acc. to EN 60529
Tightening torque:	0.8 … 1 Nm

Note: Use a socket wrench for tightening.



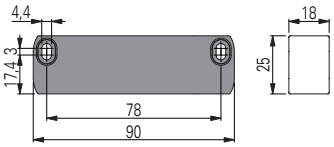
Article	Description	A	B
VF PFM20C8N	M20x1.5 chock plug for cables from Ø 8…Ø 12 mm	7.5	M20x1.5
VF PFM20C4N	M20x1.5 chock plug for cables from Ø 4…Ø 8 mm	3.5	M20x1.5

Door holding magnets



Article	Description
SM H9ZF	Door holding magnet (holding force 40 N)
SM H9ZQ	Door holding magnet (holding force 40 N, opposite polarity to SM H9ZF)

Holding magnets for use on machinery doors. The magnets are contained inside a sealed plastic cover and will not rust even in damp environments.

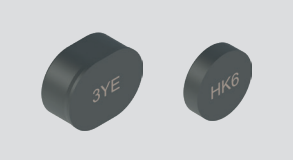


All values in the drawings are in mm

➔ The 2D and 3D files are available at **www.pizzato.com**

Tamper-protection systems

Coded screw covers for switches and actuators



Features:

Coded screw covers are fitted via snap-on application to the openings of the fixing screws, making it impossible to access the screws and therefore disassemble the switch or actuator. The shells can only be removed by breaking them. Thus, any attempt to tamper with them will be immediately evident.

By recording the data of the protective covers during final installation of the machine, e.g., by photographing the installed products, any replacements can be detected subsequently.

These new, coded protective covers can, therefore, also be used as a replacement for standard covers (should they be lost) without affecting the protection against tampering.

The covers are available for series SR, SM A, ST G, ST D, ST H, SM G, SM H, SM D, SM L, SM E, AN, NG (actuator), NS (housing), NS (actuator), NX.

Article	Description	Packs of 10 pcs.
VF PC10A9	Coded protective screw covers for series SR - SM A - ST G - NX	
VF PC11A9	Coded protective screw covers for series ST D - ST H - SM G - SM H - SM D - SM L - SM E	
VF PC12A9	Coded protective screw covers for the NG series (actuator)	
VF PC13A9	Coded protective screw covers for the NS series (housing) - AN	
VF PC14A9	Coded protective screw covers for the NS series (actuator)	

Coded covers for M12 connectors



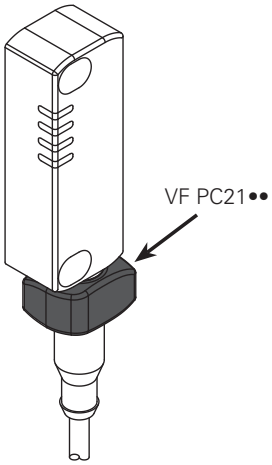
Features:

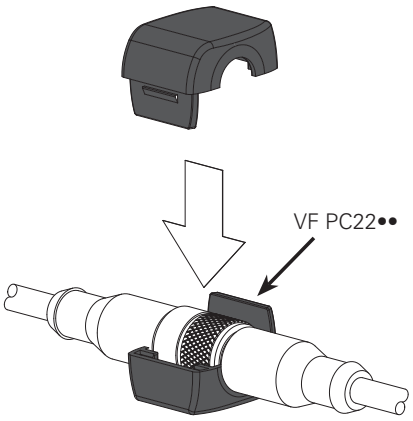
These coded protective covers consists of two identical half shells that are snapped onto the M12 connectors of the safety devices and make it impossible to detach the connector. The shells can only be removed by breaking them. Thus, any attempt to tamper with them will be immediately evident. The coding has the same properties as the screw covers described above, thereby guaranteeing tens of thousands of different combinations.

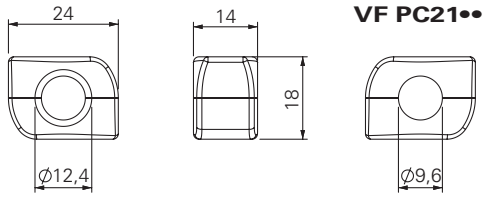
The protective covers are suitable for all devices with an M12 connector (e.g., NX, NS, ST, SR series) but they can also be used for junctions between male and female M12 connectors.

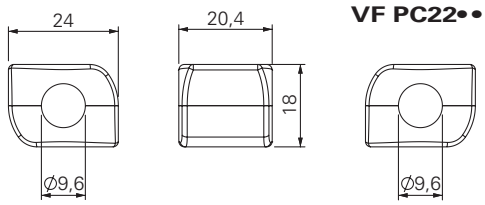
A version made of blue detectable technopolymer is available for the food industry, and it can easily be detected during the process using common optical vision technologies, X-rays or metal detectors.

Installation:









Article	Description	Packs of 10 pcs.	Colour / material
VF PC21A9	Coded protective covers for M12 connectors integrated in the device		Grey technopolymer
VF PC22A9	Coded protective covers for M12 extension cables		Grey technopolymer
VF PC21B6	Coded protective covers for M12 connectors integrated in the device		Blue detectable technopolymer
VF PC22B6	Coded protective covers for M12 extension cables		Blue detectable technopolymer

All values in the drawings are in mm

→ The 2D and 3D files are available at **www.pizzato.com**

LED signalling lights

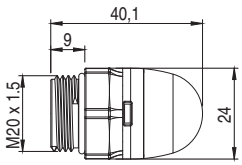
Packs of **5 pcs.**

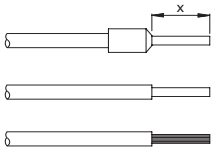


These signalling lights with high luminosity LEDs are used for signalling that an electric contact has changed its state inside the switch. They can be installed on switches of the FL, FX, FW, FG, FY, NG or FS series by screwing them on one of the conduit entries not used for electric cables. They can be used for many different purposes: for example, to signal, from a distance, whether the switch has been actuated; whether the guard has closed correctly; or whether the guard is locked or unlocked.
The inner part can rotate in such a way that it can be wired and screwed on the switch without any risk of twisting the wires.

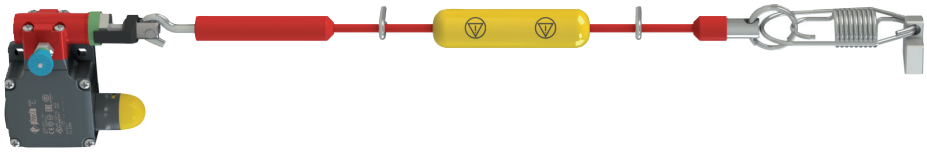
Features:

Protection degree:	IP67 acc. to EN 60529 IP69K acc. to ISO 20653
Ambient temperature:	-25°C … +70°C
Operating voltage U_n:	24 Vac/dc (10 mA) 120 Vac (20 mA) 230 Vac (20 mA)
Tolerance on the supply voltages:	±15% of U_n
Operating current:	10 mA
Connection system:	PUSH-IN spring type
Cross-section of rigid/flexible wires w. wire-end sleeve:	min. 1 x 0.34 mm² (1 x AWG 24) max. 1 x 1.5 mm² (1 x AWG 16)
Wire cross-section with pre-insulated wire-end sleeve:	min. 1 x 0.34 mm² (1 x AWG 24) max. 1 x 0.75 mm² (1 x AWG 18)
Tightening torque.	1.2 … 2 Nm
Wire stripping length (x):	min.: 8 mm max.: 12 mm





Application examples



Status indicator for safety rope switches



Switch status indicator

Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office

VF SL1A3PA1

Operating voltage	
1	24 Vac/dc
3	120 Vac
4	230 Vac

Type of light source	
A	Standard LED with continuous light

Body design	
A	Total height 40 mm, spherical lens, threading M20x1.5 mm

Connection type	
P	PUSH-IN terminal strip

Lens colour	
2	White
3	Red
4	Green
5	Yellow

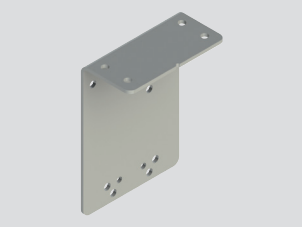
Stock items

VF SL1A3PA1
VF SL1A5PA1

All values in the drawings are in mm

→ The 2D and 3D files are available at **www.pizzato.com**

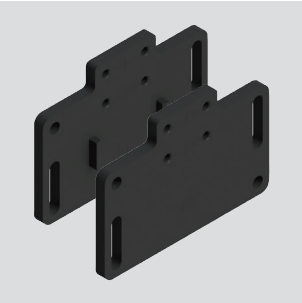
Fixing plates



Metal fixing plate, for fixing rope switches on the ceiling.
The plate is provided with bore holes for fasting switches of the FD, FL, FC, FP, FR, FM, FX, FK series. It is supplied without screws.

Article	Description
VF SFP2	Ceiling fixing plate

Fixing plates

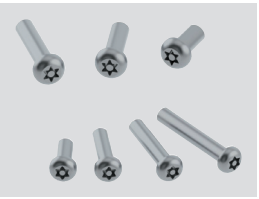


Fixing plate (complete with fastening screws) provided with long slots for adjusting the operating point.
Each plate is provided with two pairs of mounting holes, one for standard switches and one for switches with reset device. The actuator thus always has the same actuating point.

Article	Description
VF SFP1	Fixing plate (FR series)
VF SFP3	Fixing plate (FX series)

Torx safety screws

Packs of **10 pcs.**



Pan head screws with Torx fitting and pin, stainless steel.
Use a thread locker where required for applications acc. to. EN ISO 14119.

Article	Description
VF VAM4X10BX-X	M4x10 screw, with Torx T20 fitting, AISI 304
VF VAM4X15BX-X	M4x15 screw, with Torx T20 fitting, AISI 304
VF VAM4X20BX-X	M4x20 screw, with Torx T20 fitting, AISI 304
VF VAM4X25BX-X	M4x25 screw, with Torx T20 fitting, AISI 304
VF VAM4X30BX-X	M4x30 screw, with Torx T20 fitting, AISI 304
VF VAM5X10BX-X	M5x10 screw, with Torx T25 fitting, AISI 304
VF VAM5X15BX-X	M5x15 screw, with Torx T25 fitting, AISI 304
VF VAM5X20BX-X	M5x20 screw, with Torx T25 fitting, AISI 304
VF VAM5X25BX-X	M5x25 screw, with Torx T25 fitting, AISI 304
VF VAM5X35BX-X	M5x35 screw, with Torx T25 fitting, AISI 304
VF VAM5X45BX-X	M5x45 screw, with Torx T25 fitting, AISI 304

OneWay safety screws

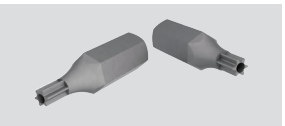
Packs of **10 pcs.**



Pan head screws with OneWay fitting in stainless steel.
This screw type cannot be removed or tampered with using common tools. Ideal for fixing safety device actuators in accordance with EN ISO 14119.

Article	Description
VF VAM4X10BW-X	M4x10 screw, with OneWay fitting, AISI 304
VF VAM4X15BW-X	M4x15 screw, with OneWay fitting, AISI 304
VF VAM4X20BW-X	M4x20 screw, with OneWay fitting, AISI 304
VF VAM4X25BW-X	M4x25 screw, with OneWay fitting, AISI 304
VF VAM5X10BW-X	M5x10 screw, with OneWay fitting, AISI 304
VF VAM5X15BW-X	M5x15 screw, with OneWay fitting, AISI 304
VF VAM5X20BW-X	M5x20 screw, with OneWay fitting, AISI 304
VF VAM5X25BW-X	M5x25 screw, with OneWay fitting, AISI 304

Bits for Torx safety screws



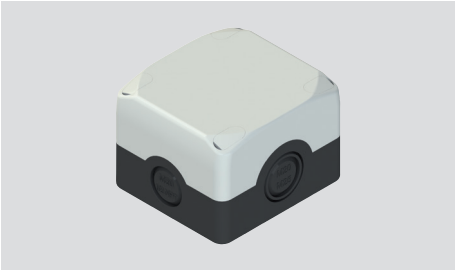
Bits for Torx safety screws with pin, with ¼" hexagonal connection.

Article	Description
VF VAIT1T20	Bits for M4 screws with Torx T20 fitting
VF VAIT1T25	Bits for M5 screws with Torx T25 fitting
VF VAIT1T30	Bits for M6 screws with Torx T30 fitting

All values in the drawings are in mm

→ The 2D and 3D files are available at **www.pizzato.com**

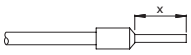
Junction box for series connection of up to 4 devices



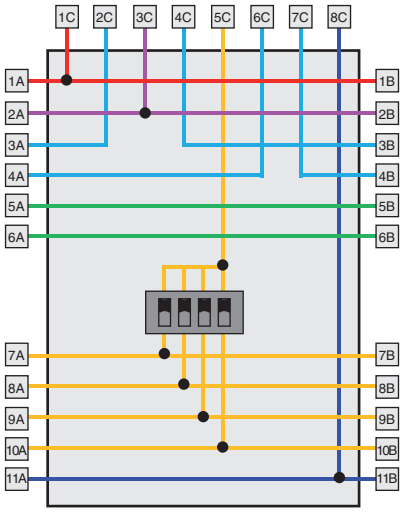
This accessory allows easy and precise series connection of up to 4 devices. Thanks to the numbered terminals and to the internal circuit, it is sufficient to connect the conductors in the slots provided with the practical and fast PUSH-IN spring connections.
Thanks to the four internal microswitches, it is possible to easily and immediately direct the device signalling outputs (open or closed, locked or unlocked) to one of the four available auxiliary channels and then manage the information independently for each channel through a PLC.

Features:

Material:	Self-extinguishing shock-proof polycarbonate with double insulation, UV-resistant and glass fibre reinforced
Material of the screws:	Stainless steel
Protection degree:	IP67 acc. to EN 60529, IP69K acc. to ISO 20653, with cable gland of equal or higher protection degree
Conduit entries:	2x M20 - 1/2 NPT knock-out side entries 2x M20 - 1/2 NPT - M25 knock-out side entries 2x M16 knock-out base entries
Ambient temperature:	-40°C … +80°C
Tightening torque of the cover screws:	1 … 1.4 Nm
Connection system:	PUSH-IN spring type
Cross-section of rigid/flexible wires w. wire-end sleeve:	min. 1 x 0.34 mm² (1 x AWG 24) max. 1 x 1.5 mm² (1 x AWG 16)
Wire cross-section with pre-insulated wire-end sleeve:	min. 1 x 0.34 mm² (1 x AWG 24) max. 1 x 0.75 mm² (1 x AWG 18)
Wire stripping length (x):	min.: 8 mm max.: 12 mm



Pin assignment

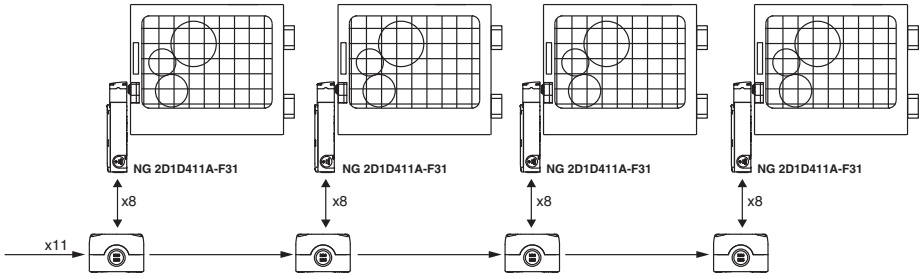




Article	Description
VF CY302P0	Junction box for series connection of up to 4 devices

Terminal box	Connection		Terminal box	Connection	
1A / 1B	A1	Supply input +24 Vdc	1C	A1	Supply input +24 Vdc
2A / 2B	A2	Supply input 0 V	2C	OS1	Safety output
3A / 3B	OS1 / IS1	Safety output / safety input	3C	A2	Supply input 0 V
4A / 4B	OS2 / IS2	Safety output / safety input	4C	IS1	Safety input
5A / 5B		Auxiliary connection	5C	O3	Signalling output, actuator inserted
6A / 6B		Auxiliary connection		O4	Signalling output, actuator inserted and locked
7A / 7B	OAUX1	Auxiliary output Oaux1			
8A / 8B	OAUX2	Auxiliary output Oaux2			
9A / 9B	OAUX3	Auxiliary output Oaux3	6C	OS2	Safety output
10A / 10B	OAUX4	Auxiliary output Oaux4	7C	IS2	Safety input
11A / 11B	I4	Solenoid activation input	8C	I4	Solenoid activation input

Example of series connection of 4 NG series switches



Wiring diagram

