

ALWAYS THE RIGHT CONNECTION

**CORDSETS FROM  
PEPPERL+FUCHS**



## CORDSET PRODUCTION CENTER

Our production site in Veszprem, Hungary is the center of our injection molding operations. Over 200 employees in Veszprem produce our molded, one-piece cordsets, housings, and connectors for sensors and actuators.



## HIGHEST QUALITY STANDARDS

Veszprem incorporates the most advanced production and quality control technologies, including a 100% functional test of every connector and cordset, to ensure the highest operational standards.

## SPECIAL REQUIREMENTS?

Our global presence, reliable service, and flexible production facilities enable Pepperl+Fuchs to deliver tailor-made and affordable solutions for all of your cable configurations and application requirements.

Pepperl+Fuchs offers sensors with integral cables or with quick disconnect. Sensors with integral cables have often been preferred in the past because they offered a higher IP protection category than that offered by quick disconnect solutions. Today, modern connectors are available with comparable IP categories, and offer the advantage of allowing the sensor to be replaced at any time, saving time and money during maintenance. In addition to the fact that they quickly plug in to the device, one-piece, molded, quick-connect cordsets have standardized M12 and M8 connections that enable applications across the globe. They accommodate oily, dirty, and wet industrial requirements, offering a high protection category, IP68/IP69K. Pepperl+Fuchs also offers multi-port junction blocks to reduce the number of cables needed when many sensors are used in a small space, to make the replacement of failed parts easy, and to increase flexibility in system design.



**M12 CORDSETS**

**M12 EXTENSION CABLES**

**M8 CORDSETS**

**M12 EXTENSION CABLES**

**NAMUR CORDSETS**

**M12 CONNECTION CABLES**

**M12 MULTI-PORT JUNCTION BLOCKS**

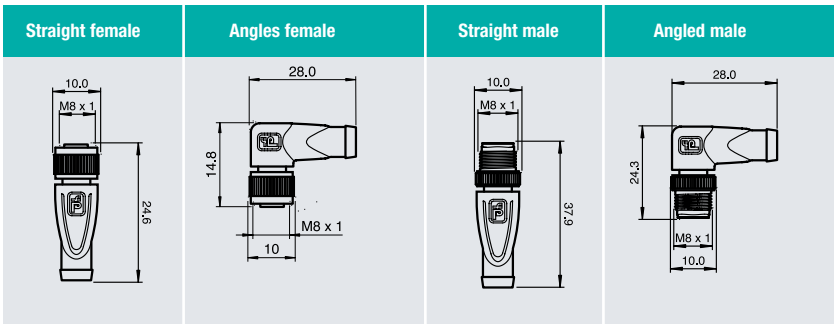
**SENSOR TESTERS**

## TECHNICAL DATA

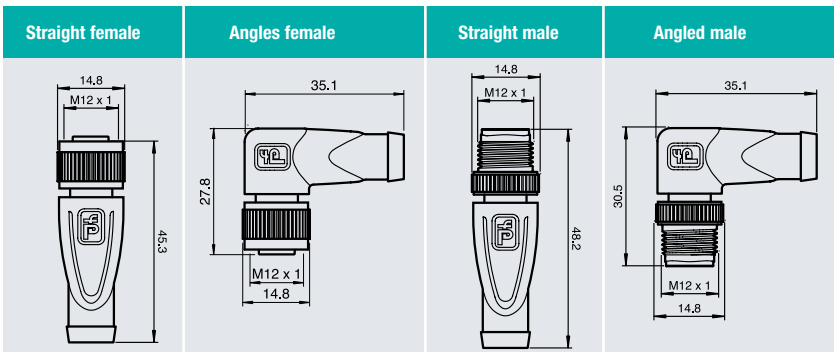
	M8 design	M12 design
Nominal current	4 A	4 A
Nominal voltage	24 V DC	24 V DC
Rated voltage according to IEC 61076-2-101	60 V	300 V DC
Volume resistance	< 5 mOhm	< 5 mOhm
Temperature Rating (moving)	-25 °C ... 100°C*	-25 °C ... 100°C*
Material of molded head and contacts	TPU and CuSn/Au	TPU and CuSn/Au
Degree of soiling	3	3
Protection category when tightened	IP67	IP67 / IP68 / IP69k
Cable type (conductor design)	fine-wire, flexible (19 mm x 0.15 mm)	fine-wire, flexible (19 mm x 0.15 mm)
PUR cable (sheath PUR, insulation PP), gray	halogen-free and flame-resistant according to VDE 0472 part 804	halogen-free and flame-resistant according to VDE 0472 part 804

\* Above 80 °C reduced mechanical values must be considered. Moving application only up to -5 °C.

## M8 DESIGN



## M12 DESIGN



## CABLE MATERIAL

We only use high quality raw cables from reputable manufacturers whose cables are made of uniform material without undesirable fillers. The cable surfaces are slightly roughened and perfectly round with uniform thickness. This makes installation easier. The cables are also designed for constant motion applications and suitable especially for conveyor chains. The cable diameter (4.8 mm) and the cable cross section (0.34 mm<sup>2</sup>) are consistent for all variants in M8 and M12 design.

## PUR CABLES

Our PUR cables have a solid PUR outer sheath highly resistant to mechanical loads. The wire insulation is made of halogen-free polypropylen (PP). This combination is much easier to peel off and strip than PUR cables with PUR wire insulation, but it is still halogen-free.

## PVC CABLES

Our PVC cables also have a PVC wire insulation. These cables are affordable, easy to configure and still resistant to various chemicals, e.g. mineral oils. However, because PVC cables contain plasticizers they are not as durable over time as PUR cables.

## CONNECTION TYPES

	2 pole NAMUR	3 pole	4 pole	5 pole	E2	A2	E2/E3
M8 female		4 BK 3 BU 1 BN	4 BK 2 WH 3 BU 1 BN		4 BK 3 BU 1 BN		
M8 male		4 BK 1 BN 3 BU	2 WH 4 BK 1 BN 3 BU				
M12 female	1 BN 2 BU	1 BN 4 BK 3 BU	1 BN 4 BK 3 BU 2 WH	1 BN 4 BK 2 WH 3 BU 5 GR	1 BN 4 BK 3 BU	1 BN 4 BK 2 WH 3 BU	1 BN 4 BK 2 WH 3 BU
M12 male		1 BN 4 BK 3 BU	1 BN 2 WH 4 BK 3 BU	1 BN 2 WH 4 BK 5 GR 3 BU			

# CORDSETS AND EXTENSION CABLES

## M8 FEMALE CORDSETS



Material	Length	No. of poles	Straight female	Angled female	Angled female with LED
PVC	2 m	3	V3-GM-2M-PVC	V3-WM-2M-PVC	V3-WM-E2-2M-PVC
	3 m	3	V3-GM-3M-PVC	V3-WM-3M-PVC	on request
	5 m	3	V3-GM-5M-PVC	V3-WM-5M-PVC	V3-WM-E2-5M-PVC
	10 m	3	V3-GM-10M-PVC	V3-WM-10M-PVC	V3-WM-E2-10M-PVC
	2 m	4	V31-GM-2M-PVC	V31-WM-2M-PVC	on request
	5 m	4	V31-GM-5M-PVC	V31-WM-5M-PVC	on request
	10 m	4	V31-GM-10M-PVC	V31-WM-10M-PVC	on request
PUR	2 m	3	V3-GM-2M-PUR	V3-WM-2M-PUR	V3-WM-E2-2M-PUR
	3 m	3	V3-GM-3M-PUR	V3-WM-3M-PUR	on request
	5 m	3	V3-GM-5M-PUR	V3-WM-5M-PUR	V3-WM-E2-5M-PUR
	10 m	3	V3-GM-10M-PUR	V3-WM-10M-PUR	V3-WM-E2-10M-PUR
	2 m	4	V31-GM-2M-PUR	V31-WM-2M-PUR	on request
	5 m	4	V31-GM-5M-PUR	V31-WM-5M-PUR	V31-WM-E2-5M-PUR
	10 m	4	V31-GM-10M-PUR	V31-WM-10M-PUR	on request

## M8 MALE CORDSETS



Material	Length	No. of poles	Straight male	Angled male	
PUR	2 m	3	V3S-GM-2M-PUR	V3S-WM-2M-PUR	
	5 m	3	V3S-GM-5M-PUR	V3S-WM-5M-PUR	

## EXTENSION CABLES M8 TO M8 AND M8 TO M12



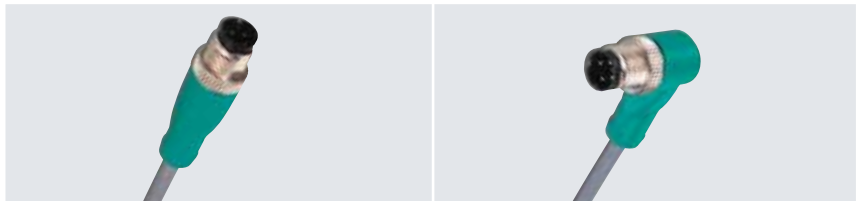
Female	Material	Length	To M8 male, straight	To M12 male, straight
M8 female, 3 pole, straight	PUR	0.6 m	V3-GM-0.6M-PUR-V3-GM	on request
		1 m	V3-GM-1M-PUR-V3-GM	on request
		2 m	V3-GM-2M-PUR-V3-GM	on request
M8 female, 3 pole, angled	PUR	1 m	V3-WM-1M-PUR-V3-GM	V3-WM-1M-PUR-V11-G
		2 m	V3-WM-2M-PUR-V3-GM	V3-WM-2M-PUR-V11-G
		3 m	V3-WM-3M-PUR-V3-GM	V3-WM-3M-PUR-V11-G
		5 m	V3-WM-5M-PUR-V3-GM	V3-WM-5M-PUR-V11-G
M8 female, 4 pole, straight	PUR	0.1 m	on request	V31-GM-0.1M-PUR-V1-G
		2 m	on request	V31-GM-2M-PUR-V1-G
		5 m	on request	V31-GM-5M-PUR-V1-G
		10 m	on request	V31-GM-10M-PUR-V1-G

**M12 FEMALE CORDSETS**



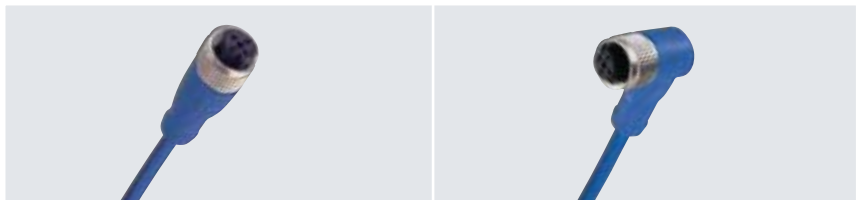
Material	Length	No. of poles	Straight female	Angled female	Angled female with LED for pnp, make-contact	Straight female with LED for pnp, make-contact	Angled female with LED, 2+4 bridged
PVC	2 m	3	V11-G-2M-PVC	V11-W-2M-PVC	V1-W-E2-2M-PVC		
	3 m	3	V11-G-3M-PVC	V11-W-3M-PVC	on request		
	5 m	3	V11-G-5M-PVC	V11-W-5M-PVC	V1-W-E2-5M-PVC		
	10 m	3	V11-G-10M-PVC	V11-W-10M-PVC	V1-W-E2-10M-PVC		
	2 m	4	V1-G-2M-PVC	V1-W-2M-PVC	V1-W-A2-2M-PVC		
	3 m	4	V1-G-3M-PVC	V1-W-3M-PVC	on request		
	5 m	4	V1-G-5M-PVC	V1-W-5M-PVC	V1-W-A2-5M-PVC		
	10 m	4	V1-G-10M-PVC	V1-W-10M-PVC	V1-W-A2-10M-PVC		
	2 m	5	V15-G-2M-PVC	V15-W-2M-PVC	on request		
	5 m	5	V15-G-5M-PVC	V15-W-5M-PVC	on request		
	10 m	5	V15-G-10M-PVC	V15-W-10M-PVC	on request		
	PUR	2 m	3	V11-G-2M-PUR	V11-W-2M-PUR	V1-W-E2-2M-PUR	V1-G-E2-2M-PUR
5 m		3	V11-G-5M-PUR	V11-W-5M-PUR	V1-W-E2-5M-PUR	V1-G-E2-5M-PUR	
10 m		3	V11-G-10M-PUR	V11-W-10M-PUR	V1-W-E2-10M-PUR	V1-G-E2-10M-PUR	
2 m		4	V1-G-2M-PUR	V1-W-2M-PUR	V1-W-A2-2M-PUR		V1-W-E2/E3-2M-PUR on request
3 m		4	V1-G-3M-PUR	V1-W-3M-PUR			
5 m		4	V1-G-5M-PUR	V1-W-5M-PUR	V1-W-A2-5M-PUR		V1-W-E2/E3-5M-PUR
10 m		4	V1-G-10M-PUR	V1-W-10M-PUR	V1-W-A2-10M-PUR		V1-W-E2/E3-10M-PUR
2 m		5	V15-G-2M-PUR	V15-W-2M-PUR			
5 m		5	V15-G-5M-PUR	V15-W-5M-PUR	V15-W-A2-5M-PUR		
10 m		5	V15-G-10M-PUR	V15-W-10M-PUR			

**M12 MALE CORDSETS**



Material	Length	No. of poles	Straight male	Angled male
PVC	2 m	4	V1S-G-2M-PVC	V1S-W-2M-PVC
	5 m	4	V1S-G-5M-PVC	V1S-W-5M-PVC
	10 m	4	V1S-G-10M-PVC	V1S-W-10M-PVC
PUR	2 m	4	V1S-G-2M-PUR	V1S-W-2M-PUR
	5 m	4	V1S-G-5M-PUR	V1S-W-5M-PUR
	10 m	4	V1S-G-10M-PUR	V1S-W-10M-PUR





**NAMUR FEMALE CORDSETS**



Material	Length	No. of poles	Straight female	Angled female
PUR	2 m	2	V1-G-N-2M-PUR	V1-W-N-2M-PUR
	5 m	2	V1-G-N-5M-PUR	V1-W-N-5M-PUR
	10 m	2	V1-G-N-10M-PUR	V1-W-N-10M-PUR
	5 m	4	V1-G-N4-5M-PUR	V1-W-N4-2M-PUR
	10 m	4	V1-G-N4-10M-PUR	V1-W-N4-5M-PUR
PVC	2 m	4	on request	V1-W-N4-2M-PVC
	5 m	4	V1-G-N4-5M-PVC	V1-W-N4-5M-PVC
	10 m	4	on request	V1-W-N4-10M-PVC

# M12 EXTENSION CABLES

## M12 EXTENSION CABLES

				Male	
					
Female	Material	Length	No. of poles	To M12 male, straight	To M12 male, angled
	PUR	0.6 m	3	V11-G-0.6M-PUR-V11-G	
		1 m	3	V11-G-1M-PUR-V11-G	
		2 m	3	V11-G-2M-PUR-V11-G	V11-G-2M-PUR-V11-W
		3 m	3	V11-G-3M-PUR-V11-G	
		5 m	3	V11-G-5M-PUR-V11-G	V11-G-5M-PUR-V11-W
		10 m	3	V11-G-10M-PUR-V11-G	
	PVC	0.6 m	3	V11-G-0.6M-PVC-V11-G	
		1 m	3	V11-G-1M-PVC-V11-G	
		2 m	3	V11-G-2M-PVC-V11-G	V11-G-2M-PVC-V11-W
		3 m	3	V11-G-3M-PVC-V11-G	
		5 m	3	V11-G-5M-PVC-V11-G	V11-G-5M-PVC-V11-W
		10 m	3	V11-G-10M-PVC-V11-G	V11-G-10M-PVC-V11-W
	PUR	0.6 m	3	V11-W-0.6M-PUR-V11-G	
		1 m	3	V11-W-1M-PUR-V11-G	
		2 m	3	V11-W-2M-PUR-V11-G	V11-W-2M-PUR-V11-W
		3 m	3	V11-W-3M-PUR-V11-G	
		5 m	3	V11-W-5M-PUR-V11-G	V11-W-5M-PUR-V11-W
		10 m	3	V11-W-10M-PUR-V11-G	
	PVC	0.6 m	3	V11-W-0.6M-PVC-V11-G	
		1 m	3	V11-W-1M-PVC-V11-G	
		2 m	3	V11-W-2M-PVC-V11-G	V11-W-2M-PVC-V11-W
		3 m	3	V11-W-3M-PVC-V11-G	
		5 m	3	V11-W-5M-PVC-V11-G	V11-W-5M-PVC-V11-W
		10 m	3	V11-W-10M-PVC-V11-G	
	PUR	0.6 m	3	on request	
		1 m	3	V1-W-E2-1M-PUR-V1-G	
		2 m	3	V1-W-E2-2M-PUR-V1-G	on request
		3 m	3		
		5 m	3	V1-W-E2-5M-PUR-V1-G	upon request
		10 m	3	V1-W-E2-10M-PUR-V1-G	on request
	PUR	0.6 m	4	V1-G-0.6M-PUR-V1-G	V1-G-0.6M-PUR-V1-W
		1 m	4	V1-G-1M-PUR-V1-G	V1-G-1M-PUR-V1-W
		2 m	4	V1-G-2M-PUR-V1-G	V1-G-2M-PUR-V1-W
		3 m	4	V1-G-3M-PUR-V1-G	V1-G-3M-PUR-V1-W
		5 m	4	V1-G-5M-PUR-V1-G	V1-G-5M-PUR-V1-W
		10 m	4	V1-G-10M-PUR-V1-G	V1-G-10M-PUR-V1-W
	PVC	0.6 m	4	V1-G-0.6M-PVC-V1-G	on request
		1 m	4	V1-G-1M-PVC-V1-G	on request
		2 m	4	V1-G-2M-PVC-V1-G	V1-G-2M-PVC-V1-W
		3 m	4	V1-G-3M-PVC-V1-G	on request
		5 m	4	V1-G-5M-PVC-V1-G	V1-G-5M-PVC-V1-W
		10 m	4	V1-G-10M-PVC-V1-G	V1-G-10M-PVC-V1-W
	PUR	0.6 m	4	V1-W-0.6M-PUR-V1-G	on request
		1 m	4	V1-W-1M-PUR-V1-G	on request
		2 m	4	V1-W-2M-PUR-V1-G	on request
		3 m	4	V1-W-3M-PUR-V1-G	on request
		5 m	4	V1-W-5M-PUR-V1-G	on request
		10 m	4	V1-W-10M-PUR-V1-G	on request

Other lengths on request

Crosslinked halogen-free cables are available under the designation ...-PUR H/S-... instead of ...-PUR-...

### V1-CLIP



Mechanical lock for M12 cordsets

Requires a tool to open

For the use of M12 cordsets in explosive zones and safety-relevant applications.

## M12 COILED CORDSETS



M12 female  
4 pole,  
angled



Material

Length

To M12 male, straight

PUR

Up to approx.  
2.5 m

V1-W-0.5/2.5M-PUR-V1-G

## SHIELDED M12 CONNECTION CABLES:

M12 female  
4 pole,  
straight,  
shield on  
coupling ring



Material

Length

To M12 male, straight

To M12 male, angled

PUR

2 m

V1-G-2M-PUR ABG-V1-G

V1-G-2M-PUR ABG-V1-W

5 m

V1-G-5M-PUR ABG-V1-G

V1-G-5M-PUR ABG-V1-W

10 m

V1-G-10M-PUR ABG-V1-G

V1-G-10M-PUR ABG-V1-W

## PROFIBUS AND CAN CONNECTION CABLES WITH M12 PLUG MALE

M12 female  
4 pole,  
straight,  
B-coded,  
PROFIBUS



Female

Material

Length

To M12 male, straight  
B-coded

To M12 male, straight  
A-coded

PUR

0.6 m

V15B-G-0.6M-PUR ABG-V15B-G

1 m

V15B-G-1M-PUR ABG-V15B-G

2 m

V15B-G-2M-PUR ABG-V15B-G

3 m

V15B-G-3M-PUR ABG-V15B-G

5 m

V15B-G-5M-PUR ABG-V15B-G

7 m

V15B-G-7M-PUR ABG-V15B-G

10 m

V15B-G-10M-PUR ABG-V15B-G

12 m

V15B-G-12M-PUR ABG-V15B-G

15 m

V15B-G-15M-PUR ABG-V15B-G

M12 female  
4 pole, straight  
A-coded, CAN



PUR

2 m

V15-G-2M-PUR CAN-V15-G

5 m

V15-G-5M-PUR CAN-V15-G

10 m

V15-G-10M-PUR CAN-V15-G

## MOUNTING AID FOR OUR MOLDED M8/M12 CONNECTORS

MH V1-SCREWDRIVER  
with MH V1-BIT for M12

MH V3-SCREWDRIVER  
with MH V3-BIT for M8








Assembly aid for easy tightening using a torque screwdriver (M12: 0.4 Nm / M8: 0.2 Nm). The attachment bit must be ordered separately.








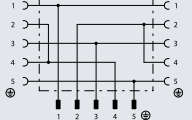

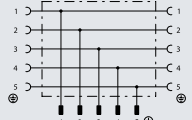

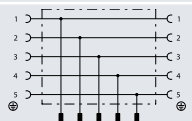

# FIELD-CONFIGURABLE CONNECTORS

## FIELD-CONFIGURABLE CONNECTORS

Connection	Order code	Straight	Angled	Female	Male	Pins	mm <sup>2</sup>	dia. cable		
<b>M8</b>	V3-GM	■		■		3	0.14...0.34	4...5 mm		
	V31-GM	■		■		4	0.14...0.34	4...5 mm		
	V3-WM	■		■		3	0.14...0.34	4...5 mm		
	V31-WM	■		■		4	0.14...0.34	4...5 mm		
	V3S-GM	■		■		3	0.14...0.34	4...5 mm		
	V31S-GM	■		■		4	0.14...0.34	4...5 mm		
<b>M12</b>	V1-G	■		■		4	Max. 0.75	4...6 mm		
	V1-G-PG9	■		■		4	Max. 0.75	6...8 mm		
	V15-G-PG9	■		■		5	Max. 0.75	6...8 mm		
	V1-W		■	■		4	Max. 0.75	4...6 mm		
	V1-WW2A		■	■		4	Max. 0.75	4...6 mm		
	V1S-G	■			■	4	Max. 0.75	4...6 mm		
	V15S-G-PG7	■			■	5	Max. 0.75	4...6 mm		
	V15S-G-PG9	■			■	5	Max. 0.75	6...8 mm		
	V1S-W		■		■	4	Max. 0.75	4...6 mm		
	V1-E/E2 LED	LED board to insert into field-configurable M12 connectors								
	V1-G-Q2	■		■		4	0.34...0.75	4...7.5 mm		
	V1S-G-Q2	■		■		4	0.34...0.75	4...7.5 mm		
	V1-G-Q3	■		■		4	0.14...0.34	4...6 mm		
	VS1-G-Q3	■		■		4	0.14...0.34	4...6 mm		
	shielded V1-G-IVH	■		■		4	Max. 0.75	4...6 mm		
	shielded V1-W-IVH		■	■		4	Max. 0.75	4...6 mm		
shielded V1S-G-IVH	■			■	4	Max. 0.75	4...6 mm			
shielded V1S-W-IVH		■		■	4	Max. 0.75	4...6 mm			
<b>RD 24x1/8 (692 series)</b>	V16-G	■		■		6+PE	0.34... 1.5	6...8 mm		
	V16-W	■		■		6+PE	0.34... 1.5	6...8 mm		
	V16S-G	■		■		6+PE	0.34... 1.5	6...8 mm		
<b>M18</b>	V18-G	■		■		4	Max. 1.5	6...8 mm		
	V18-W	■		■		4	Max. 1.5	6...8 mm		
<b>MALE CONNECTOR WITH CENTER SCREW</b>	V-W		■	■		5	Max. 2.5	4...6 mm		
	V-W-E2		■	■		5	Max. 2.5	4...6 mm		
	V-W-N		■	■		5	Max. 2.5	4...6 mm		

# M12 DISTRIBUTOR · M12 RECEPTACLES

## DUAL PORT SPLITTER





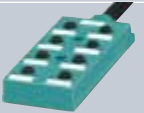
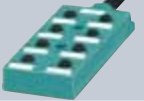


Connection	Model number	Description		Connection allocation
<b>M12</b>	V11S-T-V11	M12 male connector for dual M12 female, 3 pole, T design		
	V1S-T-V1	M12 male connector for dual M12 female, 4 pole, T design, input pin 2 free to connect 4-wire sensors		
	V15S-T-V15	M12 male connector for dual M12 female, 5 pole, T design, input pins 2 and 4 bridged		
	V15S-TEE-V15	M12 female to M12 female and M12 male, 5 pole, T design, all pins connected through for bus applications, A-coded		
	V15S-YEE-V15	M12 male to M12 female and M12 female, 5 pole, Y design, all pins connected through for bus application, A-coded		
	V1S-G-DUO-PG11	M12 male with terminal space for two 4-wire round cables up to 0.34 mm <sup>2</sup> , cable diameter up to 5 mm		

## THREADED ADAPTER WITH M12 RECEPTACLE

Screw-in	Housing material	Cord length (mm)	Model number	
<b>PG9</b>	Plastic	80	V1-PG9-Y27812	
<b>PG13.5</b>	Plastic	80	V1-PG13.5-Y21270	
<b>M16</b>	Plastic	50	V1-M16-50	
<b>M20</b>	Plastic	80	V1-M20-80	

# M12 MULTI-PORT JUNCTION BLOCKS

## M12 MULTI-PORT JUNCTION BLOCKS

Connection	No. of ports / Signal inputs	Connection type	Model number
TERMINAL	4/8	Screw terminals	V1-4/8A-E2 
	8/16	Screw terminals	V1-8/16A-E2 
CABLE	4/4	5 m PUR cable	V1-4A-E2-5M-PUR 
	4/4	10 m PUR cable	V1-4A-E2-10M-PUR 
	8/8	5 m PUR cable	V1-8A-E2-5M-PUR 
	8/8	10 m PUR cable	V1-8A-E2-10M-PUR 
M23 PLUG CONNECTION	4/4	12 pole M23 plug connection	V1-4A-E2-M23 
	8/8	12 pole M23 plug connection	V1-8A-E2-M23 

## ACCESSORIES FOR MULTI-PORT JUNCTION BLOCKS

for top hat rail mounting:

**MH 05-SACB-4** (for junction blocks with 4 ports)

**MH 05-SACB-8** (for junction blocks with 8 ports)



Unused port plug:

**VAZ-V1-B**



### Technical data for multi-port junction blocks

Nominal voltage		24 V DC
Max. permitted operating voltage		30 V DC
Max. current load per channel		2 A
Max. current load per slot		4 A
Max. total current load		12 A
Operating current of LED indicators per channel		≤ 5 mA
Number of poles per slot (single/dual allocation)		4/5
Protection category according to IEC 60529/EN 60523/DIN VDE 0470-1		IP65/IP67
Ambient temperature	stationary:	-40 °C ... +75 °C (cable: -30 °C ... +90 °C)
	moving:	-5 °C ... +70 °C
Housing material		Crastin® (PBT)
Flammability category according to UL 94		V0
Contact material		Brass, tin-plated
Wire diameter	(cable version)	0.34 mm <sup>2</sup> (Supply: 0.75 mm <sup>2</sup> )
	(Terminal version)	0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> (Supply: 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> )
Cable diameter	(with cable)	8.7 mm (4-port) and 9.2 mm (8-port)
	(Terminal version)	6.5 mm ... 9.5 mm

Battery-supplied sensor testers supply sensors with power and indicate their switching states. Sensors in 2-, 3- and 4-wire technology as well as NAMUR sensors can be connected to the sensor tester ST 03. The connection is made via sensor wire-end attachment. The sensor tester 1-1350 can be used for both AC and DC sensors.

Sensor tester  
ST 03



Sensor testers  
1-1350



## Contact

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