

Pre-assembled plug connectors

Product range overview

Function	Electrical connection	Type	Cable connector	Version	→ Page/Internet
Round plug connector	M8, 3-pin	SEA-3GS-M8-S	Pg7	Straight/ screw terminal	2
		SEA-GS-M8	Pg7	Straight/ solder lug	2
	M12, 4-pin	SEA-GS-7	Pg7	Straight/ screw terminal	4
		SEA-GS-9	Pg9	Straight/ screw terminal	4
		SEA-GS-11-DUO	Pg11	Straight/ screw terminal	4
		SEA-GS-HAR	Pg9	Straight/ insulation displacement connector	4
		SEA-4GS-7-2,5	Pg7	Straight/ screw terminal	4
	M12, 5-pin	SAE-M12-5GS	Pg7	Straight/ screw terminal	6
		SEA-5GS-11-DUO	Pg11	Straight/ screw terminal	6

Pre-assembled plug connectors, M8, 3-pin

Technical data – SEA-GS-M8

FESTO

Plug SEA-GS-M8

- Sensor plug/socket for inputs/ outputs
- Can be assembled with any cable lengths
- 3-pin
- With screw terminals or soldered connection
- Wire cross section up to 0.5 mm²



General technical data		
Type	SEA-GS-M8	SEA-3GS-M8-S
Electrical connection	Straight plug, 3-pin, M8x1	
	Solder lug	Screw terminal
Type of mounting	Via threaded sleeve	
Mounting position	Any	
Max. tightening torque of locking clip	[Nm]	0.3
Permissible cable diameter	[mm]	3.5 ... 5
Connection cross section	[mm ²]	0.25
Acceptable current load at 40 °C	[A]	3
Surge resistance	[kV]	1.5
Operating voltage range	[V AC]	60
	[V DC]	60
Protection class to EN 60529	IP67 (assembled)	IP65 (assembled)
Based on standard	EN 61076-2-101, EN 61984	

Materials		
Type	SEA-GS-M8	SEA-3GS-M8-S
Housing colour	Black	
Housing material	PA	
Contact material	Gold-plated brass	
Union nut material	Nickel-plated brass	Nickel-plated/chrome-plated brass
Note on materials	RoHS-compliant	
Max. tightening torque of locking clip	[Nm]	0.3

Operating and environmental conditions		
Ambient temperature	[°C]	-40 ... +85
Corrosion resistance class CRC ¹⁾		2
CE marking (see declaration of conformity)		To EU Low Voltage Directive
Degree of contamination		3

1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

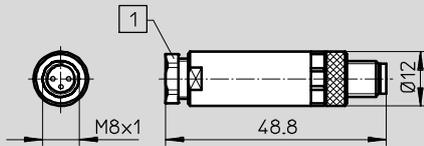
Pre-assembled plug connectors, M8, 3-pin

Technical data – SEA-GS-M8

Dimensions

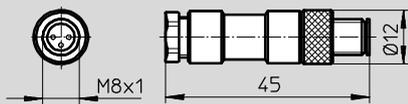
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SEA-3GS-M8-S



- 1 Cable connector:
- Black for cables 3.5 ... 5 mm
 - Blue for cables 2.5 ... 4 mm

SEA-GS-M8



Ordering data

Electrical connection	Cable connector	Product weight [g]	Part No.	Type
Straight plug, 3-pin, screw terminal	Pg7	11	192009	SEA-3GS-M8-S
Straight plug, 3-pin, solder lug	Pg7	9	18696	SEA-GS-M8

Pre-assembled plug connectors, M12, 4-pin

Technical data – SEA-GS

FESTO

Plug

SEA-GS

SEA-GS-HAR

SEA-4GS

- Sensor plug for inputs/outputs
- Can be assembled with any cable lengths
- 4-pin
- Wire cross section up to 0.75 mm²



General technical data		SEA-GS ...	SEA-4GS ...	SEA-GS-HAR ...
Electrical connection		Straight plug, 4-pin, M12x1		
		Screw terminal	Screw terminal	Insulation displacement connector
Type of mounting		Via threaded sleeve	Via threaded sleeve	Via thread
Mounting position		Any	Any	Any
Max. tightening torque of locking clip	[Nm]	0.5	0.5	0.5
Connection cross section	[mm ²]	0.75	0.14 ... 0.5	0.25 ... 0.5
Permissible individual wire diameter	[mm]	–	–	0.1
Permissible wire diameter	[mm]	–	–	1.2 ... 1.6
Acceptable current load at 40 °C	[A]	4	4	4
Surge resistance	[kV]	2.5	2.5	0.8
Operating voltage range	[V AC]	250	250	32
	[V DC]	250	250	32
Protection class to EN 60529		IP67 (assembled)	IP65 (assembled)	IP67 (assembled)
Based on standard		EN 61076-2-101, EN 61984		

Materials		SEA-GS ...	SEA-4GS ...	SEA-GS-HAR ...
Housing colour		Black	Black	–
Housing		PBT	PA	Nickel-plated die-cast zinc
Contacts		Brass, coated with white bronze	Brass, coated with white bronze	Gold-plated copper base alloy
Union nut		PBT	PA	–
Permissible wire insulation		–	–	PVC
Note on materials		RoHS-compliant		

Operating and environmental conditions		SEA-GS ...	SEA-4GS ...	SEA-GS-HAR ...
Ambient temperature	[°C]	–40 ... +85	–40 ... +85	–25 ... +85
Corrosion resistance class CRC ¹⁾		2	2	2
CE marking (see declaration of conformity)		To EU Low Voltage Directive		–
Degree of contamination		3	3	3

1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Pre-assembled plug connectors, M12, 4-pin

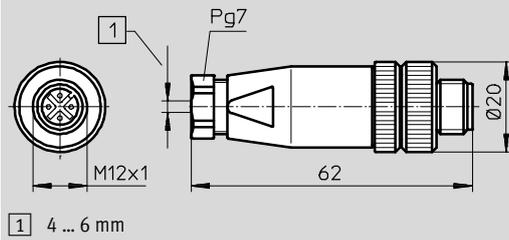
Technical data – SEA-GS

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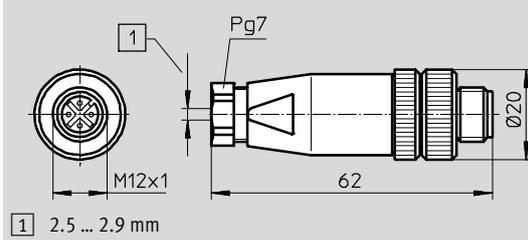
Dimensions

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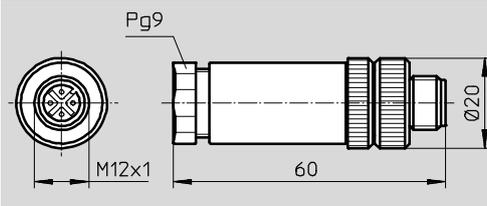
SEA-GS-7



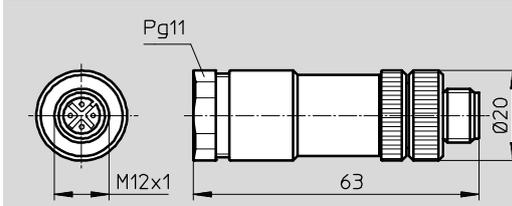
SEA-4GS-7-2,5



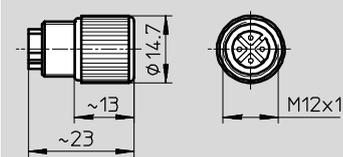
SEA-GS-9



SEA-GS-11-DUO



SEA-GS-HAR



Ordering data

Electrical connection	Cable connector	Perm. cable Ø [mm]	Product weight [g]	Part No.	Type
Straight plug (type A), 4-pin, screw terminal	Pg7	4 ... 6	17	18666	SEA-GS-7
		2.5 ... 2.9	18	192008	SEA-4GS-7-2,5
	Pg9	6 ... 8	18	18778	SEA-GS-9
	Pg11	3 ... 5	24	18779	SEA-GS-11-DUO
Straight plug, 4-pin, insulation displacement connector	Pg9	4 ... 5.1	11.5	525928	SEA-GS-HAR-4POL

Pre-assembled plug connectors, M12, 5-pin

Technical data – SEA-...5GS

FESTO

Plug

SEA-M12-5GS

SEA-5GS

- Sensor plug for inputs/outputs
- Can be assembled with any cable lengths
- 5-pin
- Wire cross section up to 0.75 mm²



General technical data			
Type	SEA-M12-5GS-PG7	SEA-5GS-11-DUO	
Electrical connection	Straight plug (type A), 5-pin M12, screw terminal		
Type of mounting	Via threaded sleeve		
Max. tightening torque of locking clip	[Nm]	0.5	
Mounting position	Any		
Permissible cable diameter	[mm]	4 ... 6	2 x 2.5 ... 2.9 or 2 x 5
Connection cross section	[mm ²]	0.75	0.14 ... 0.5
Acceptable current load at 40 °C	[A]	4	
Surge resistance	[kV]	1.5	
Operating voltage range	[V AC]	60	
	[V DC]	60	
Protection class to EN 60529	IP67 (assembled)	IP65 (assembled)	
Based on standard	EN 61076-2-101, EN 61984		

Materials		
Type	SEA-M12-5GS-PG7	SEA-5GS-11-DUO
Housing colour	Black	
Housing	PBT	PA
Contacts	Brass, coated with white bronze	
Union nut	Nickel-plated die-cast zinc	PA
Note on materials	RoHS-compliant	

Operating and environmental conditions		
Ambient temperature	[°C]	-40 ... +85
Corrosion resistance class CRC ¹⁾		2
CE marking (see declaration of conformity)		To EU Low Voltage Directive
Degree of contamination		3

1) Corrosion resistance class 2 according to Festo standard 940 070

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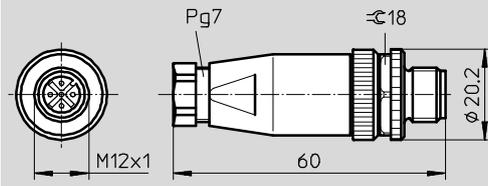
Pre-assembled plug connectors, M12, 5-pin

Technical data – SEA-...5GS

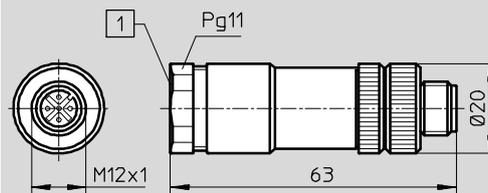
Dimensions

Download CAD data → www.festo.com

SEA-M12-5GS-PG7



SEA-5GS-11-DUO



- 1 Included in the scope of delivery:
- 1 seal insert for 2 cables with \varnothing 2.5 ... 2.9 mm
 - 1 seal insert for 2 cables with \varnothing 5 mm
 - 1 cable tie

Ordering data

Electrical connection	Cable connector	Product weight [g]	Part No.	Type
Straight plug (type A), 5-pin, screw terminal	Pg7	21.5	175487	SEA-M12-5GS-PG7
	Pg11	24	192010	SEA-5GS-11-DUO