

# Pre-assembled plug connectors

Product range overview



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

# Pre-assembled plug connectors, M8, 3-pin

Technical data – SEA-GS-M8

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## 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 mm<sup>2</sup>



| 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 <sup>2</sup> ]         | 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 <sup>1)</sup> |                             | 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

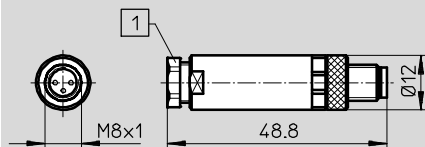
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Technical data – SEA-GS-M8

## Dimensions

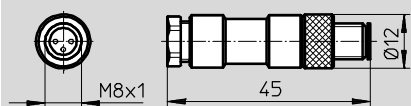
Download CAD data → [www.festo.com](http://www.festo.com)

### 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

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## 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 mm<sup>2</sup>



| 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 <sup>2</sup> ] | 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                 | 32                                |
|                                             | [V DC]                      | 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                 |             | –25 ... +85    |
| Corrosion resistance class CRC <sup>1)</sup> | 2                           |             | 2              |
| CE marking (see declaration of conformity)   | To EU Low Voltage Directive |             | –              |
| Degree of contamination                      | 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

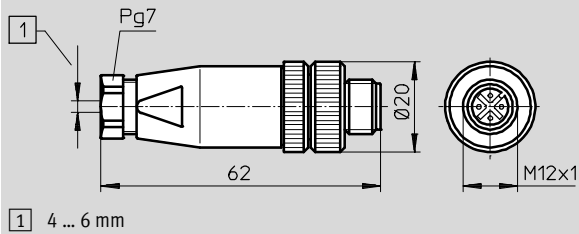
Technical data – SEA-GS

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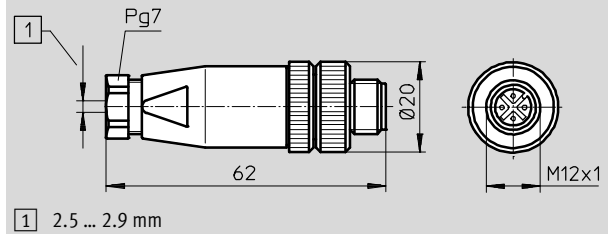
## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

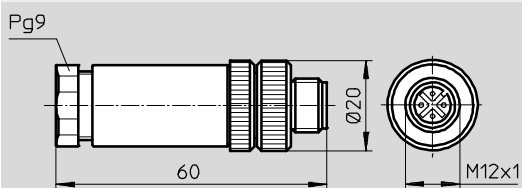
### SEA-GS-7



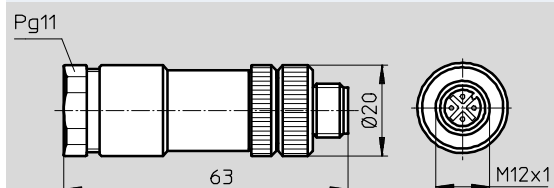
### SEA-4GS-7-2,5



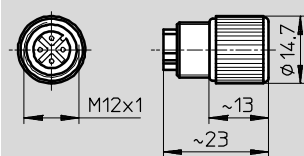
### SEA-GS-9



### 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

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### 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 mm<sup>2</sup>



| General technical data                      |                                                      |                          |
|---------------------------------------------|------------------------------------------------------|--------------------------|
| Type                                        | SEA-M12-5GS-PG7                                      | SEA-5GS-11-DUO           |
| Electrical connection                       | Straight plug (type A), 5-pin<br>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 <sup>2</sup> ] | 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 <sup>1)</sup> | 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, M12, 5-pin

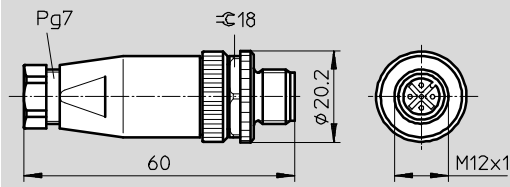
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Technical data – SEA-...5GS

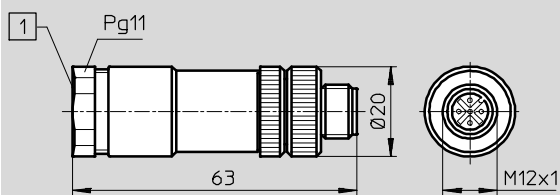
## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

SEA-M12-5GS-PG7



SEA-5GS-11-DU0



- 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-DU0  |

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