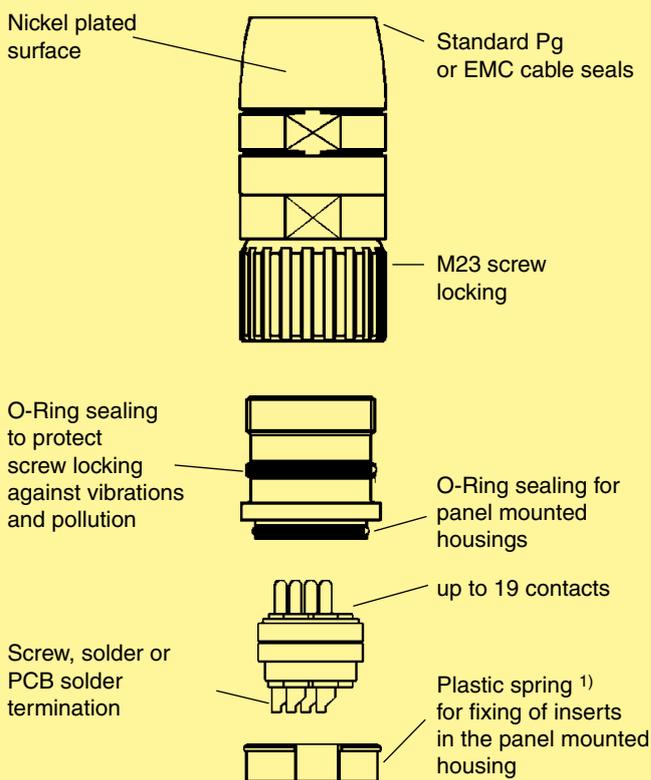




Features

- Size R 23
- Outer diameter 26 mm
- High contact density
- Very robust hoods and housings
- Corrosion resistant
- Excellent EMC properties (with continuous shielding)
- Quick and easy assembly
- Vibration resistant screw locking system
- Up to 19 contacts, 25 V~ / 60 V-
- Ideal for applications such as measurement and automatic control

Description



¹⁾ is part of delivery range of bulkhead mounted housings
Part-number of spare part: 09 15 200 9901



Technical characteristics

Specifications DIN VDE 0110
 DIN EN 61 984

Hoods and Housings

Material	Copper zinc alloy
Surface	Nickel plated
Flat sealing	NBR
O-Ring sealing	FPM
Temperature range	-40 °C ... +115°C
Protection degree in locked position	IP 67

Inserts

Number of contacts	6	9	12	17	19
Rated current					
- power contact	15A	1x15A			3 x 10A
- signal contact		8 x 7A	7A	7A	16 x 7A
(see Derating Diagram)					
Rated voltage ¹⁾	25 V~ / 60 V-				
Degree of pollution	3				
Test voltage U _{rms}	1.5 kV				
Insulation resistance	≥ 10 ¹² Ω				
Material	Thermoplastic polyester (PBT)				
Temperature range	-40 °C ... +115 °C				
Flammability acc. to UL 94	V 0				

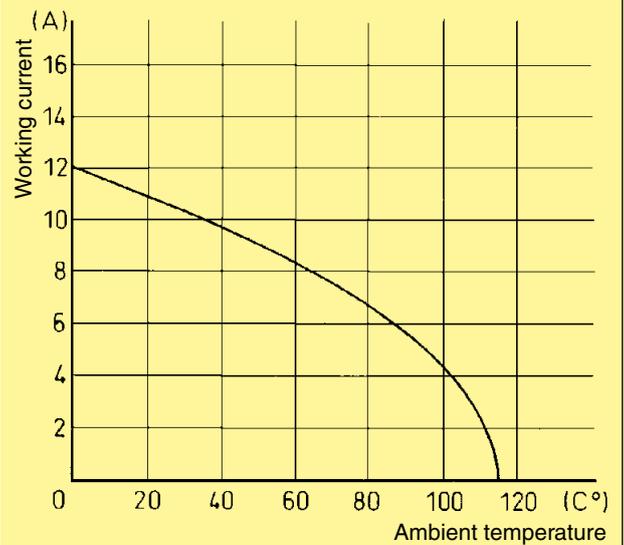
Contacts

Material	Copper alloy
Surface	Gold plated
Contact resistance	≤ 5 mΩ
Screw termination	
- power contact	0.14 - 1.0 mm ² / AWG 26 - 16
- signal contact	0.14 - 0.75 mm ² / AWG 26 - 18
Solder termination	
- power contact	0.14 - 2.5 mm ² / AWG 26 - 14
- signal contact	0.14 - 1.0 mm ² / AWG 26 - 16
Crimp termination	
- D-Sub contact	see catalogue Interface Connectors
PCB solder termination	
- power contact	Ø 1.5 mm
- signal contact	Ø 0.6 mm
- reference to bulkhead mounted housing	3.5 mm



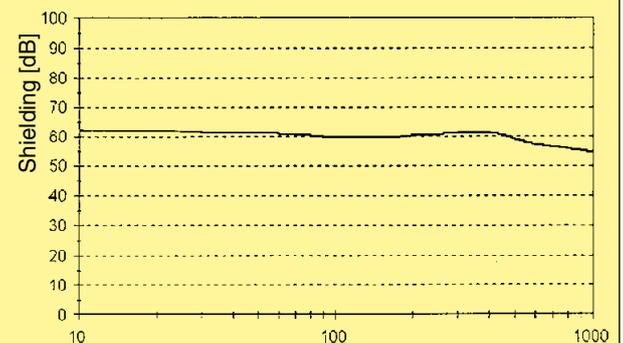
1) Acc. to DIN VDE 0627 metallic parts which may be touched by a person and may have voltages present under fault conditions, must have integral protection. Therefore this R 23 connector is limited for use up to 25 V~/60 V-.

Derating Diagramm



Insert: 12 pins
 Wire gauge: 1 mm² (AWG 18)

Shielding of the EMC housings



Identification	Number of contacts	Male insert (M)	Female insert (F)	Part No.	Drawing	Dimensions in mm
Screw terminal	6	09 15 206 2601	09 15 206 2701		<p>Contact arrangement: mating side</p>	
Solder terminal	6	09 15 206 2603	09 15 206 2703		<p>PCB layout</p>	
PCB solder termination ²⁾	6	09 15 206 2604	09 15 206 2704		<p>2) Suitable only for bulkhead mounted housings 09 15 200 0311, 09 15 200 0313 and 09 15 200 0301</p>	
Screw terminal	9	09 15 209 2601	09 15 209 2701		<p>Contact arrangement: mating side (numbering in opposite direction on request)</p>	
Solder terminal	9	09 15 209 2603	09 15 209 2703		<p>PCB layout</p>	
PCB solder termination ²⁾	9	09 15 209 2604	09 15 209 2704		<p>2) Suitable only for bulkhead mounted housings 09 15 200 0311, 09 15 200 0313 and 09 15 200 0301</p>	

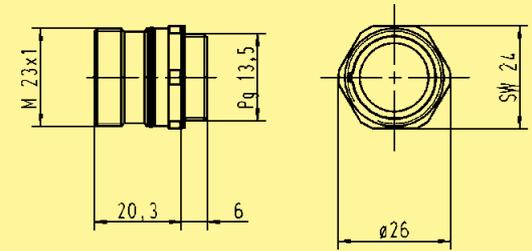
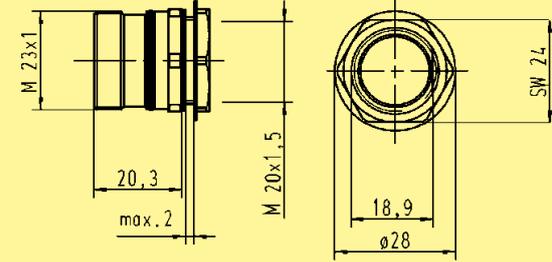
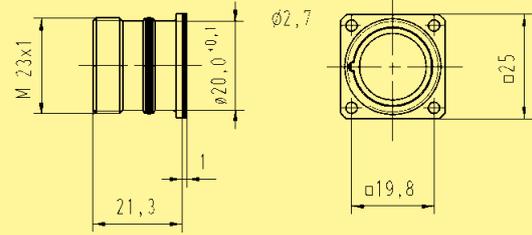
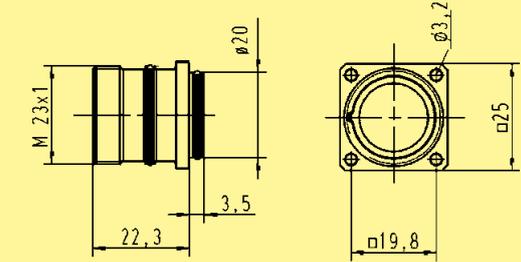
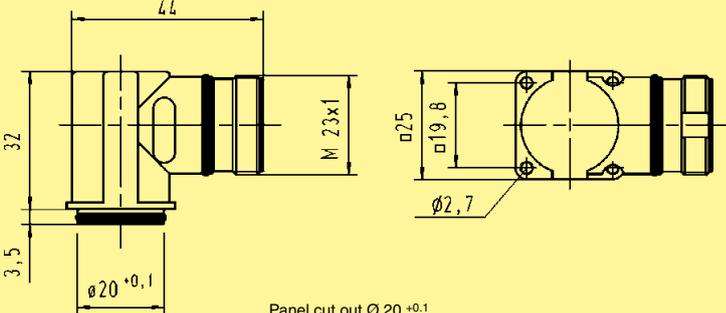
Identification	Number of contacts	Male insert (M)	Female insert (F)	Drawing	Dimensions in mm
Solder terminal	12	09 15 212 2603	09 15 212 2703	<p>Contact arrangement: mating side (numbering in opposite direction on request)</p> <p>PCB layout</p>	
Crimp terminal for D-Sub contacts	12	09 15 212 2602	09 15 212 2702		
PCB solder termination ²⁾	12	09 15 212 2604	09 15 212 2704		
Solder terminal	17	09 15 217 2603	09 15 217 2703	<p>Contact arrangement: mating side (numbering in opposite direction on request)</p> <p>PCB layout</p>	
Crimp terminal for D-Sub contacts	17	09 15 217 2602	09 15 217 2702		
PCB solder termination ²⁾	17	09 15 217 2604	09 15 217 2704		
Solder terminal	19	09 15 219 2603	09 15 219 2703	<p>Contact arrangement: mating side</p>	

2) Suitable only for bulkhead mounted housings
09 15 200 0311, 09 15 200 0313 and
09 15 200 0301

2) Suitable only for bulkhead mounted housings
09 15 200 0311, 09 15 200 0313 and
09 15 200 0301

Circular Connectors

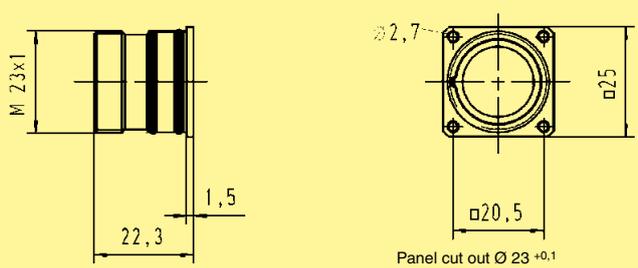
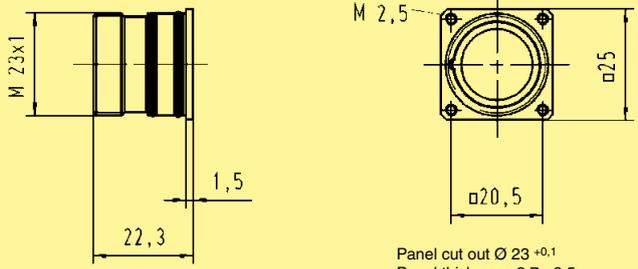
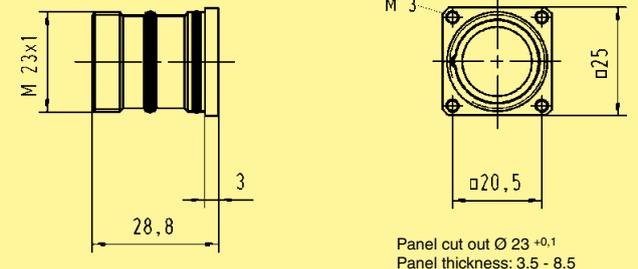
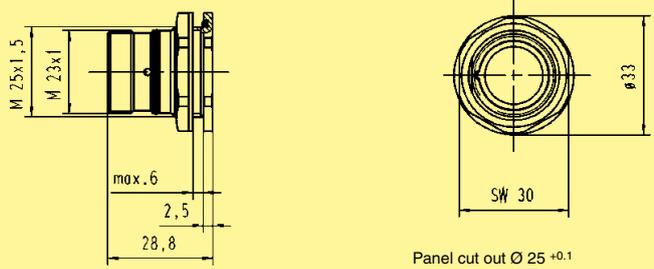
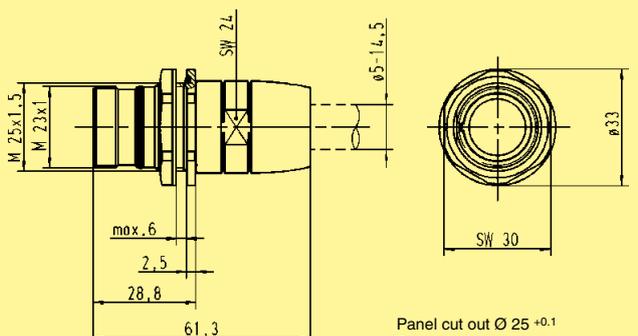
Identification	Part No.	Pg	Drawing	Dimensions in mm
Hoods top-entry	09 15 200 0402 09 15 200 0403	9 11		
Hood top-entry EMC version	09 15 200 0451	—		
Hood entry 90°	09 15 200 0603	11		
Identification	Part No.	Drawing	Dimensions in mm	
Screw cover for hoods with tether	09 15 200 5421			

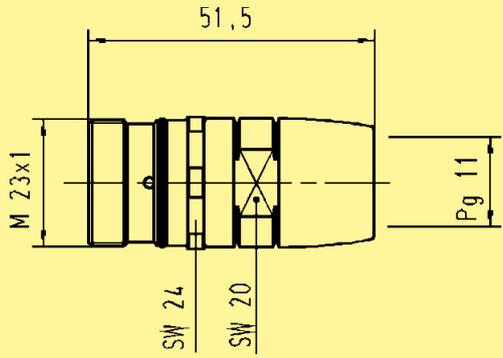
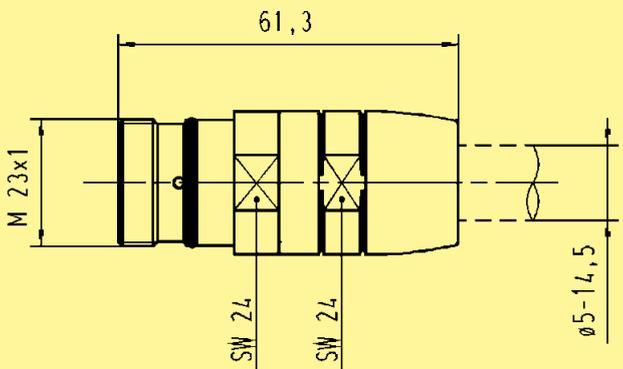
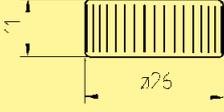
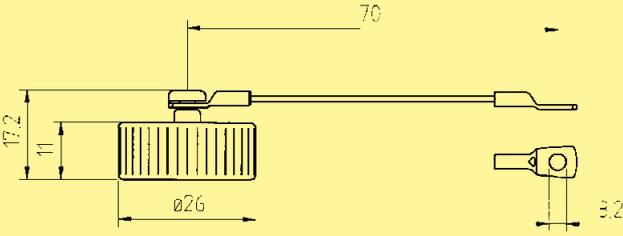
Identification	Part No.	Drawing	Dimensions in mm
<p>Bulkhead mounting housing</p> <p>front wall assembly with central locking Pg 13.5</p> 	09 15 200 0324	 <p>Panel cut out Pg 13.5</p>	
<p>Bulkhead mounting housing</p> <p>front wall assembly with central locking M20</p> 	09 15 200 0303	 <p>Panel cut out Ø 20 ^{+0.1}</p>	
<p>Bulkhead mounting housing</p> <p>front wall assembly with flat sealing</p> 	09 15 200 0301	 <p>Panel cut out Ø 20 ^{+0.1}</p>	
<p>Bulkhead mounting housing</p> <p>front wall assembly with O-ring sealing</p> 	09 15 200 0305	 <p>Panel cut out Ø 20 ^{+0.1}</p>	
<p>Bulkhead mounting housing</p> <p>front wall assembly with O-ring sealing</p> 	09 15 200 0901	 <p>Panel cut out Ø 20 ^{+0.1}</p>	

Order inserts separately see pages 03.64 - 03.65

Corresponding hoods and housing see page 03.66

Stock items in bold type

Identification	Part No.	Drawing	Dimensions in mm
<p>Bulkhead mounting housing</p> <p>back wall assembly with O-ring sealing</p> 	09 15 200 0313		<p>Panel cut out $\varnothing 23^{+0,1}$ Panel thickness: 2.7 - 3.5 when using counter sunk screws</p>
<p>Bulkhead mounting housing</p> <p>back wall assembly with O-ring sealing</p> 	09 15 200 0311		<p>Panel cut out $\varnothing 23^{+0,1}$ Panel thickness: 2.7 - 3.5 when using counter sunk screws</p>
<p>Bulkhead mounting housing</p> <p>back wall assembly with O-ring sealing</p> 	09 15 200 0312		<p>Panel cut out $\varnothing 23^{+0,1}$ Panel thickness: 3.5 - 8.5 when using counter sunk screws</p>
<p>Bulkhead mounting housing</p> <p>back wall assembly with central locking M25</p> 	09 15 200 0314		<p>Panel cut out $\varnothing 25^{+0,1}$ Panel thickness: 6</p>
<p>Cable to cable housing</p> <p>back wall assembly with central locking M25</p> 	09 15 200 0351		<p>Panel cut out $\varnothing 25^{+0,1}$ Panel thickness: 6</p>

Identification	Part No.	Pg	Drawing	Dimensions in mm
<p>Cable to cable housing</p> <p>top-entry</p> 	09 15 200 0703	11		
<p>Cable to cable housing</p> <p>top-entry EMC version</p> 	09 15 200 0751	-		
Identification	Part No.	Drawing	Dimensions in mm	
<p>Screw cover</p> <p>for bulkhead mounted and cable to cable housings</p> 	09 15 200 5401			
<p>Screw cover</p> <p>for bulkhead mounted and cable to cable housings, with tether</p> 	09 15 200 5411			

Order inserts separately see pages 03.64 - 03.65

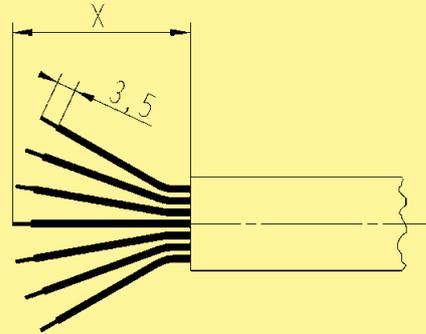
Corresponding hoods and housing see page 03.66

Stock items in bold type

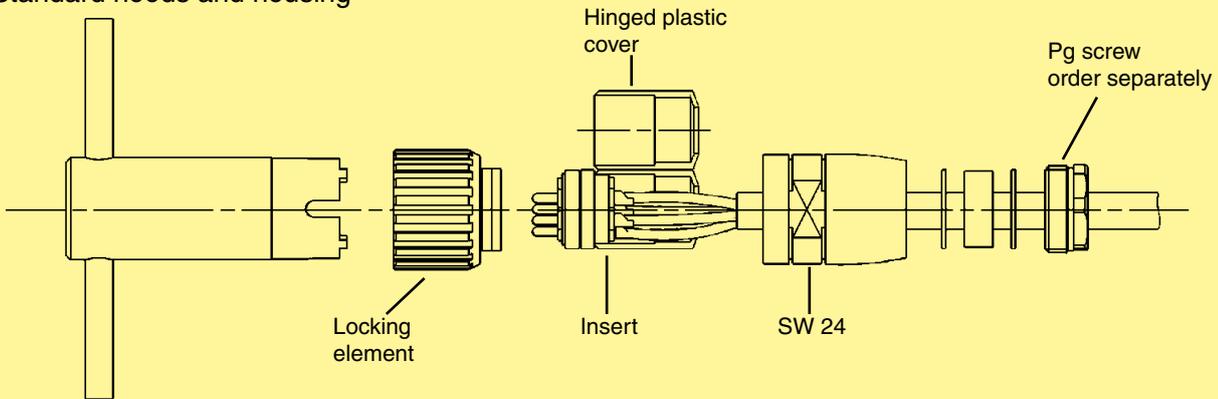
Assembly manuals

Circular Connectors

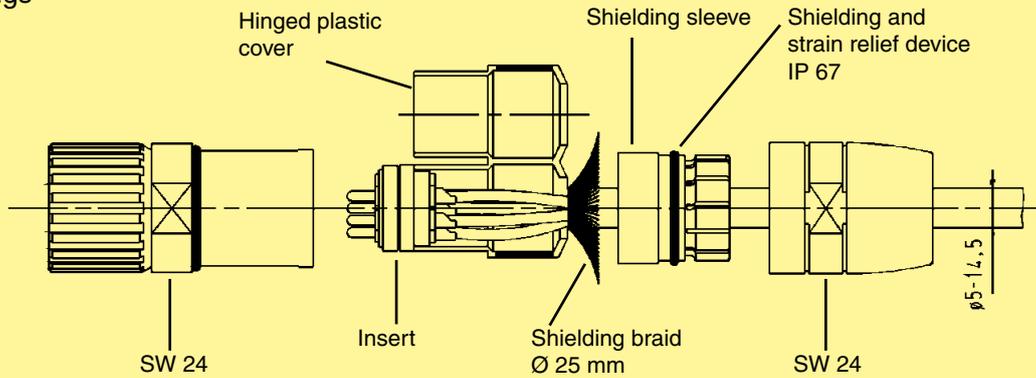
Hoods and Housings	Cable stripping length x
09 15 200 0351	26 mm
09 15 200 0403	20 mm
09 15 200 0451	26 mm
09 15 200 0603	30 mm
09 15 200 0703	20 mm
09 15 200 0751	26 mm
09 15 200 0901	30 mm



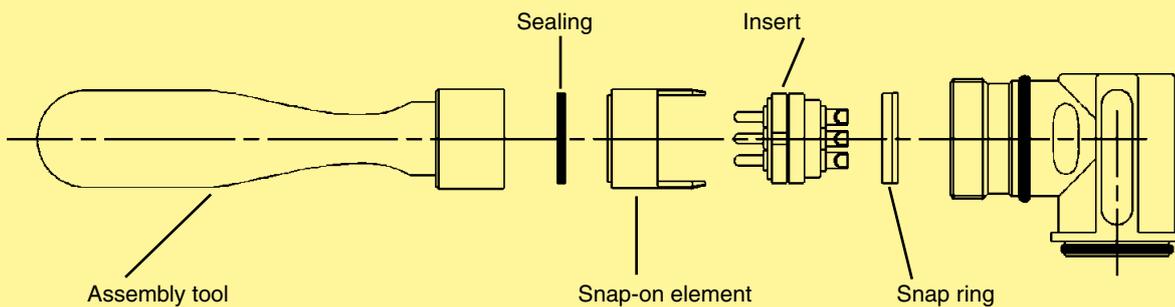
Standard hoods and housing

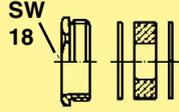


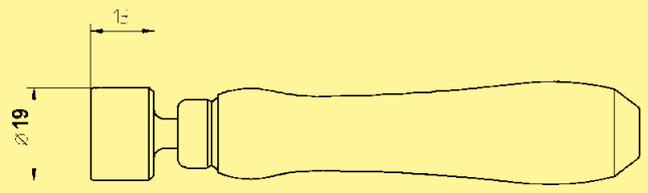
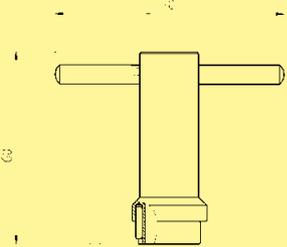
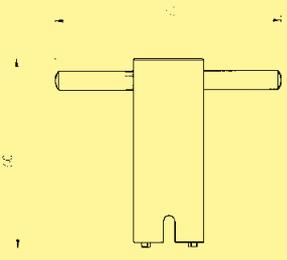
EMC housings



Right angled bulkhead mounted housing



Identification	Part No.	Pg	Drawing	Dimensions in mm
Cable seal metal (IP 65) with normal seal 	09 00 000 5113	11	Suitable cable-Ø 10 - 12	
with multiple seal 	09 00 000 5013	11	6.5 - 12	
Special cable clamp metal (IP 65) with strain relief and bell-mouth 	09 00 000 5191	11	Suitable cable-Ø 8 - 12	
with normal seal order separately 	09 00 000 5020	11	10 - 12	
with strain relief and bell-mouth order separately 	09 00 000 5027	11	6.5 - 12	

Identification	Part No.	Drawing	Dimensions in mm
Assembly tool for angled bulkhead mounted housings 	09 99 000 0324		
Assembly tool for bulkhead mounted and cable to cable housings and hoods 	09 99 000 0325	 <p>As an alternative a screw driver can be used.</p>	
Assembly tool for hoods 	09 99 000 0326	 <p>Alternatively for the assembly of the EMC version a screw driver can be used.</p>	