

# *Series*



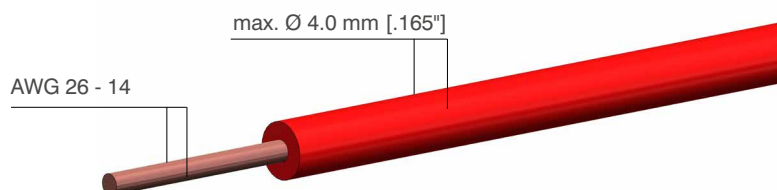
- Operating voltage from 10 kVDC to 15 kVDC
- Operating current up to 13 A
- 2 - 5 HV contacts
- For cable sizes AWG 26-14

Housing	
Locking system	threaded coupling
Mounting type (panel mount connector)	4-hole flange
Housing material basis / adapter	brass (CuZn)
Surface plating	nickel (Ni)
Protection class (mated connector)	IP60 (IP65 on request)
Operating temperature	-30°C to +80°C

Contacts 1.6 mm	
Termination method	solder / crimp
Rated current	13 A
Contact resistance	≤ 5 mΩ
Contact diameter	1.6 mm [.063"]
Wire size (AWG / cross section)	AWG 26 - 14 (0.14 mm² - 2.5 mm²)
Contact material	brass (CuZn)
Contact plating	silver (Ag) / gold (Au)
Mating cycles	≥ 1,000

Insulation inserts	
Number of contacts	2, 3, 4, 5
Insulation material	PTFE / POM
CTI value	600
Flammability class PTFE	UL94 V-0
Flammability class POM	UL94 HB
Operating temperature PTFE	-50°C to +200°C
Operating temperature POM	-30°C to +120°C
Insulating material group PTFE / POM	I (DIN IEC 60664)


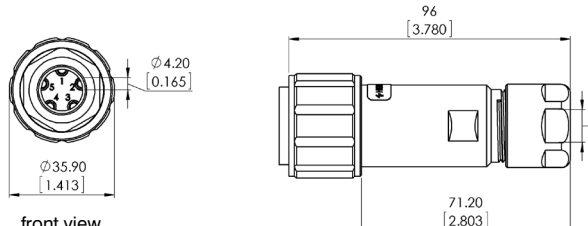

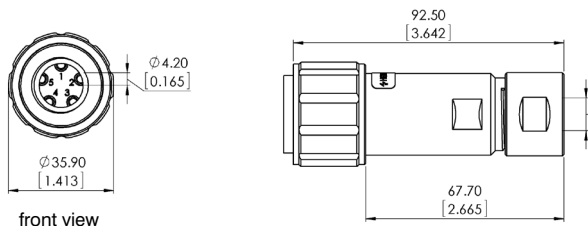

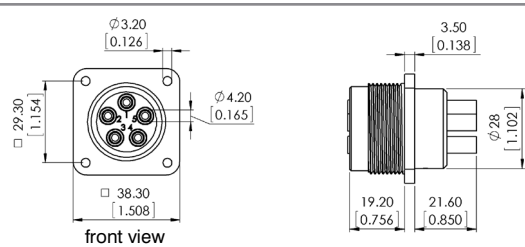

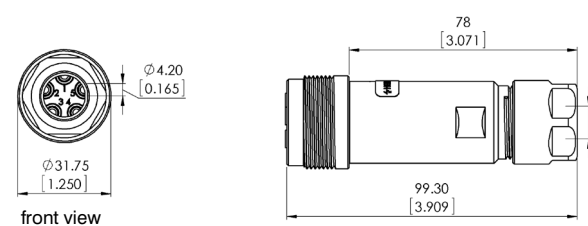

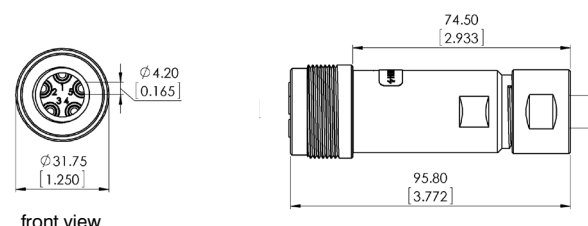
## Suitable cable dimensions (single wire)



Plug, cable mount / Receptacle, panel mount / Receptacle, coupling, cable mount

Electrical values	
Operating voltage (DC)	10 kV
Test voltage (DC)	15 kV
Rated current	13 A


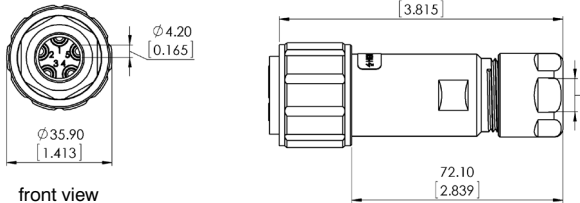

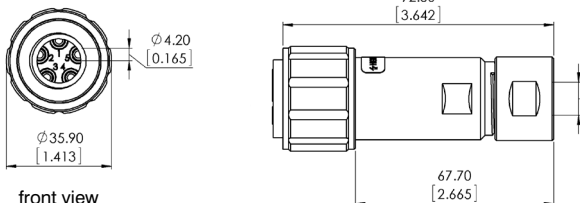

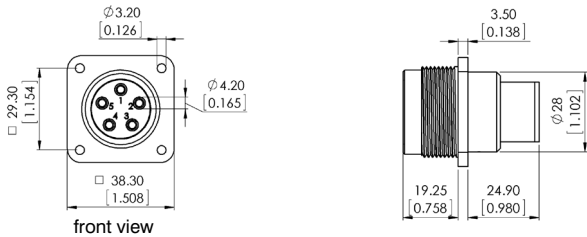
Characteristics	
Number of pins	5
Insulation material	POM

Type / Version / Part number	Picture / Drawing													
<div>KS-MC507</div> <div>Plug, cable mount with integrated cable gland</div> <table><tr><td>Part no.</td><td>Clamping range</td></tr><tr><td>5005030A</td><td>6.5 - 8 mm [.256" - .315"]</td></tr><tr><td>5005030B</td><td>8 - 9.5 mm [.315" - .374"]</td></tr><tr><td>5005030C</td><td>9.5 - 11 mm [.374" - .433"]</td></tr><tr><td>5005030D</td><td>11 - 12.5 mm [.433" - .492"]</td></tr><tr><td>5005030E</td><td>12.5 - 14 mm [.492" - .551"]</td></tr></table>	Part no.	Clamping range	5005030A	6.5 - 8 mm [.256" - .315"]	5005030B	8 - 9.5 mm [.315" - .374"]	5005030C	9.5 - 11 mm [.374" - .433"]	5005030D	11 - 12.5 mm [.433" - .492"]	5005030E	12.5 - 14 mm [.492" - .551"]	<div></div> <div></div> <div>front view</div>	
Part no.	Clamping range													
5005030A	6.5 - 8 mm [.256" - .315"]													
5005030B	8 - 9.5 mm [.315" - .374"]													
5005030C	9.5 - 11 mm [.374" - .433"]													
5005030D	11 - 12.5 mm [.433" - .492"]													
5005030E	12.5 - 14 mm [.492" - .551"]													
<div>KS-MC507</div> <div>Plug, cable mount with adapter M20/M25 for external cable gland</div> <table><tr><td>Part no.</td><td>Connecting thread</td></tr><tr><td>5005030M</td><td>M20 x 1.5</td></tr><tr><td>5005030N</td><td>M25 x 1.5</td></tr></table>	Part no.	Connecting thread	5005030M	M20 x 1.5	5005030N	M25 x 1.5	<div></div> <div></div> <div>front view</div>							
Part no.	Connecting thread													
5005030M	M20 x 1.5													
5005030N	M25 x 1.5													
<div>GB-MC507</div> <div>Receptacle, panel mount</div> <div>Part no. 5005010R</div>	<div></div> <div></div> <div>front view</div>													
<div>KBI-MC507</div> <div>Receptacle, coupling, cable mount with integrated cable gland</div> <table><tr><td>Part no.</td><td>Clamping range</td></tr><tr><td>5005042A</td><td>6.5 - 8 mm [.256" - .315"]</td></tr><tr><td>5005042B</td><td>8 - 9.5 mm [.315" - .374"]</td></tr><tr><td>5005042C</td><td>9.5 - 11 mm [.374" - .433"]</td></tr><tr><td>5005042D</td><td>11 - 12.5 mm [.433" - .492"]</td></tr><tr><td>5005042E</td><td>12.5 - 14 mm [.492" - .551"]</td></tr></table>	Part no.	Clamping range	5005042A	6.5 - 8 mm [.256" - .315"]	5005042B	8 - 9.5 mm [.315" - .374"]	5005042C	9.5 - 11 mm [.374" - .433"]	5005042D	11 - 12.5 mm [.433" - .492"]	5005042E	12.5 - 14 mm [.492" - .551"]	<div></div> <div></div> <div>front view</div>	
Part no.	Clamping range													
5005042A	6.5 - 8 mm [.256" - .315"]													
5005042B	8 - 9.5 mm [.315" - .374"]													
5005042C	9.5 - 11 mm [.374" - .433"]													
5005042D	11 - 12.5 mm [.433" - .492"]													
5005042E	12.5 - 14 mm [.492" - .551"]													
<div>KBI-MC507</div> <div>Receptacle, coupling, cable mount with adapter M20/M25 for external cable gland</div> <table><tr><td>Part no.</td><td>Connecting thread</td></tr><tr><td>5005042M</td><td>M20 x 1.5</td></tr><tr><td>5005042N</td><td>M25 x 1.5</td></tr></table>	Part no.	Connecting thread	5005042M	M20 x 1.5	5005042N	M25 x 1.5	<div></div> <div></div> <div>front view</div>							
Part no.	Connecting thread													
5005042M	M20 x 1.5													
5005042N	M25 x 1.5													



Contacts, cable glands and accessories on pages 96-98  
Mounting instructions on pages 99-110

drawing - dimensions in mm [inch]

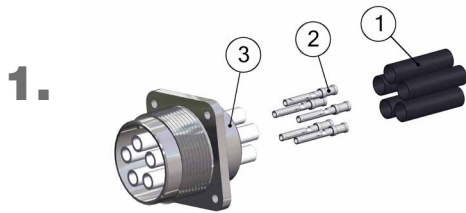
Type / Version / Part number	Picture / Drawing	
<b>KB-MC507</b>  Receptacle, cable mount with integrated cable gland  Part no.    Clamping range 5005040A   6.5 - 8 mm [.256" - .315"] 5005040B   8 - 9.5 mm [.315" - .374"] 5005040C   9.5 - 11 mm [.374" - .433"] 5005040D   11 - 12.5 mm [.433" - .492"] 5005040E   12.5 - 14 mm [.492" - .551"]	  <p>front view</p>	
<b>KB-MC507</b>  Receptacle, cable mount with adapter M20/M25 for external cable gland  Part no.    Connecting thread 5005040M   M20 x 1.5 5005040N   M25 x 1.5	  <p>front view</p>	
<b>GS-MC507</b>  Plug, panel mount  Part no. 5005020R	  <p>front view</p>	



Contacts, cable glands and accessories on pages 96-98  
 Mounting instructions on pages 99-110

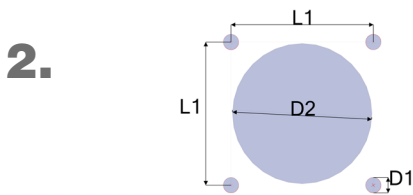
drawing - dimensions in mm [inch]

# Assembly Instructions Series MC - type 207-507 receptacle, panel mount



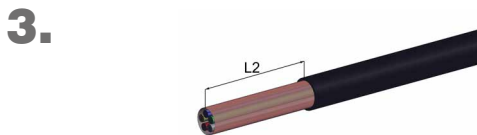
## Part as supplied

Shrinking tubes (1), female contacts (2),  
connector housing (3)



## Panel cut out

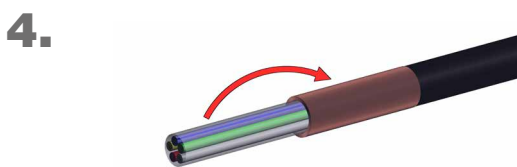
Type	L1 mm [inch]	D1 mm [inch]	D2 mm [inch]
GB 207 / 307 / 407	26.90 [1.059"]	3.00 [.118"]	26.00 [1.024"]
GB 507	29.30 [1.154"]	3.00 [.118"]	29.00 [1.142"]



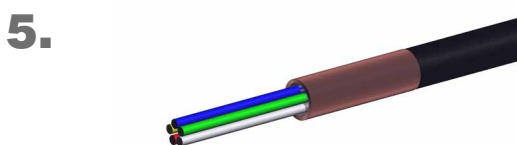
## Carefully remove cable jacket.

Type	L2 mm [inch]
GB 207 / 307 / 407 / 507	min. 45 [1.772"]

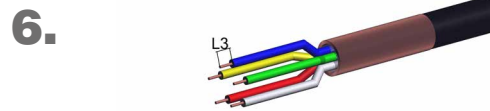
⚠ Do not damage metal shield braid



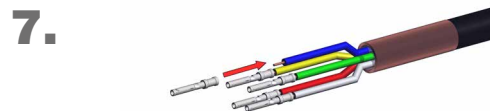
## Fold back shield braid.



## Remove any filling elements from cable.



Remove dielectric insulation of single wires  
(L3 = 5 - 8 mm [.197" - .315"]).



Crimp or solder one female contact (2) on  
each conductor.

⚠ For soldering: Tin-solder must not remain  
on contact surface!



Put shrinking tubes (1) on insulation tubes  
on rear side of connector housing (3).



Slide contacts (2) completely into insulation  
tubes until contacts snap into place.

🗨 Pull gently to check that contacts are  
correctly located and remain in position.



Shrink tubes - shrinking temperature 110°C.



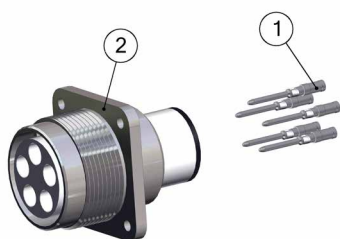
Assembly finished.

# Assembly Instructions

## Series MC - type 207-507

### plug, panel mount

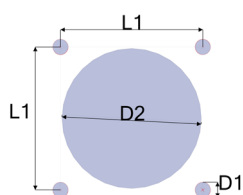
1.



Part as supplied.

Male contacts (1), connector housing (2)

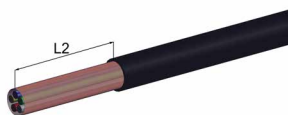
2.



Panel cut out

Type	L1 mm [inch]	D1 mm [inch]	D2 mm [inch]
GS 207 / 307 / 407	26.90 [1.059"]	3.00 [.118"]	26.00 [1.024"]
GS 507	29.30 [1.154"]	3.00 [.118"]	29.00 [1.142"]

3.

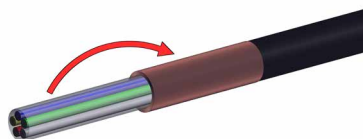


Carefully remove cable jacket.

Type	L2 mm [inch]
GS 207 / 307 / 407 / 507	min. 45 [1.772"]

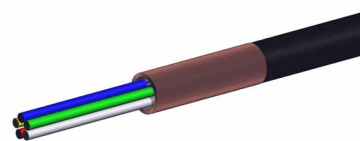
⚠ Do not damage metal shield braid

4.



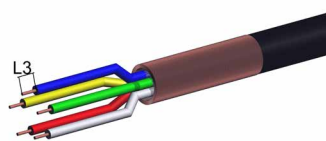
Fold back shield braid.

5.



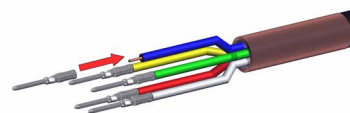
Remove any filling elements from cable.

6.



Remove dielectric insulation of single wires  
(L3 = 5 - 8 mm [.197" - .315"]).

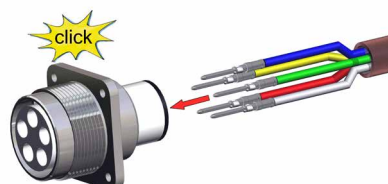
7.



Crimp or solder one male contact (1) on each conductor.

⚠ For soldering: Tin-solder must not remain on contact surface!

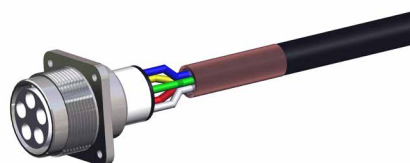
8.



Slide contacts (1) completely into connector shell (2) until contacts snap into place.

💬 Pull gently to check that contacts are correctly located and remain in position.

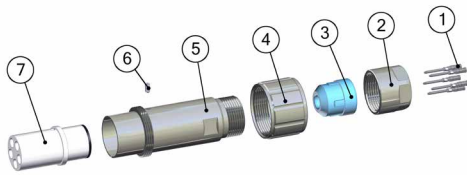
9.



Assembly finished.

# Assembly Instructions Series MC - type 207-507 plug, cable mount

**1.**



**Part as supplied**

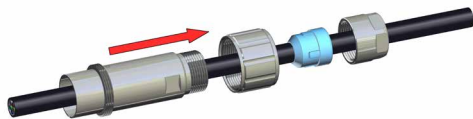
Male contacts (1), cap (2), sealing insert (3), screw joint (4), basis (5), threaded pin (6), insulation insert (7).

**5.**



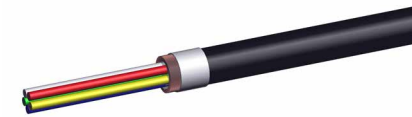
Fix shield braid with tape.

**2.**



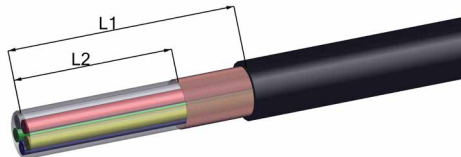
Place cap (2), sealing insert (3), screw joint (4) and basis (5) onto cable.

**6.**



Remove any filling elements from cable.

**3.**

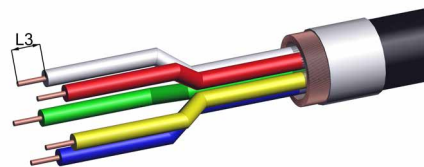


Remove cable jacket.

Type	L1 mm [inch]	L2 mm [inch]
KS 207 / 307 / 407 / 507	50 [1.968"]	35 [1.377"]

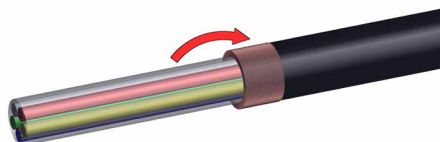
⚠ Do not damage metal shield braid

**7.**



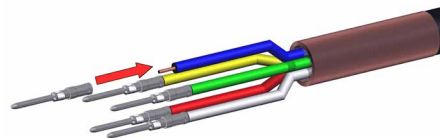
Remove dielectric insulation (L3 = 5-8 mm [.197" - .315"]).

**4.**



Fold back shield braid over jacket.

**8.**

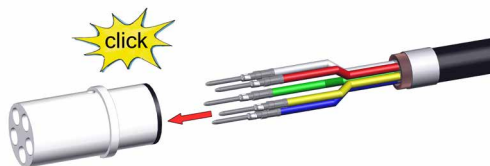


Crimp or solder female contacts (1) on conductor.


⚠ For soldering: Tin-solder must not remain on contact surface.

# Assembly Instructions Series MC - type 207-507 plug, cable mount

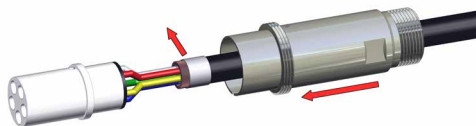
9.



Slide contacts completely into insulation insert (7) until contacts snap into place.

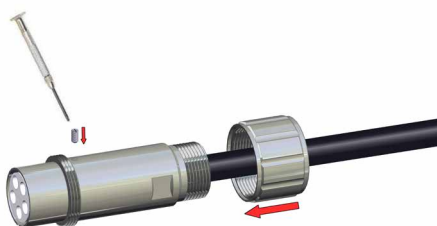
 Pull gently to check that contacts are correctly located and remain in position.

10.



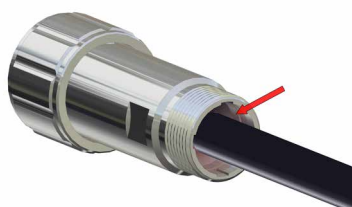
Remove tape and place basis (5) onto insulation insert (7)

11.



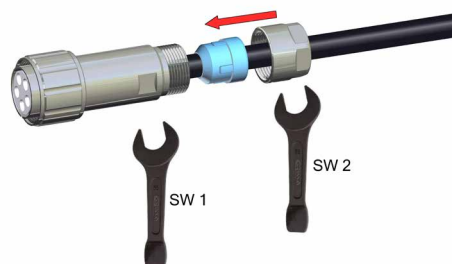
Secure insulation insert (7) with threaded pin (6), then screw joint (4) onto basis (5).

12.



Widen shield braid.

13.



Insert sealing (3) completely and screw cap (2) onto basis (5).

Cable gland type	SW 1	SW 2
KS 207 / 307 / 407	23	26
KS 507	26	26

Tightening torque is 7 Nm

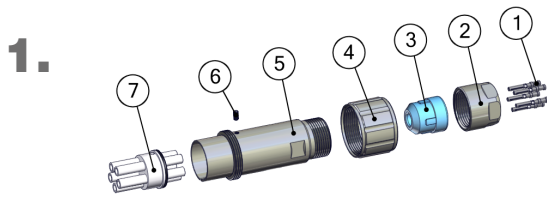
14.



Assembly finished.



# Assembly Instructions Series MC - type 207-507 receptacle cable mount & coupling

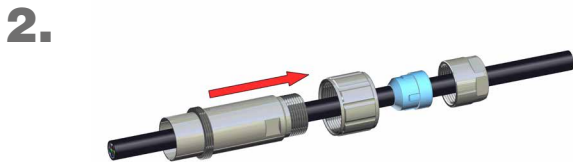


**Part as supplied.**

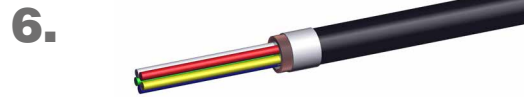
Female contacts (1), cap (2), sealing insert (3), screw joint (4), basis (5), threaded pin (6), insulation insert (7).



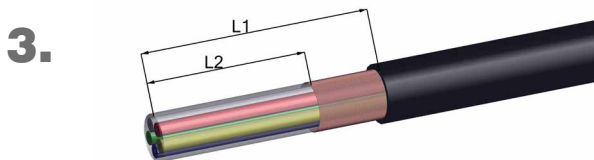
Fix shield braid with tape.



Place cap (2), sealing insert (3), screw joint (4) and basis (5) onto cable



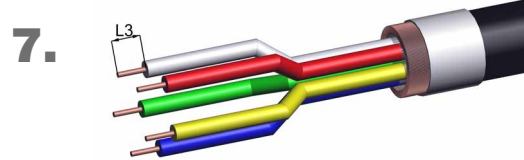
Remove any filling elements from cable.



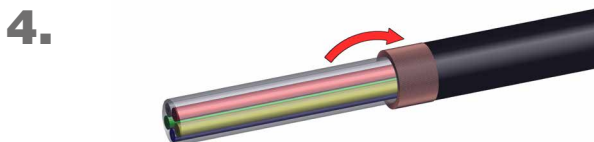
Remove cable jacket.

Type	L1 mm [inch]	L2 mm [inch]
KS 207 / 307 / 407 / 507	50 [1.968"]	35 [1.377"]

⚠ Do not damage metal shield braid.



Remove dielectric insulation  
(L3 = 5-8 mm [.197" - .315"]).



Fold back shield braid over jacket.



Crimp or solder female contacts (1) on conductor.

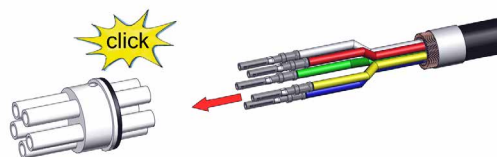
⚠ For soldering: Tin-solder must not remain on contact surface.

# Assembly Instructions


## Series MC - type 207-507

### receptacle cable mount & coupling

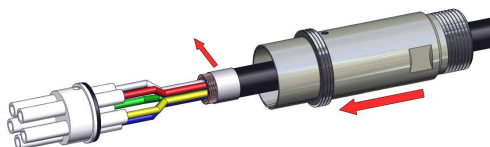
9.



Slide female contacts completely into insulation insert until contacts snap into place.

 Pull gently to check that contacts are correctly located and remain in position.

10.



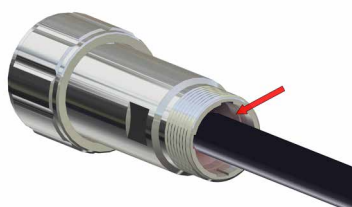
Remove tape and place basis (5) onto insulation insert (7)

11.



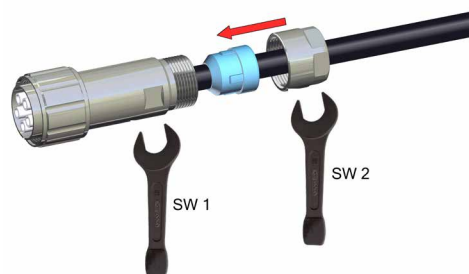
Secure insulation insert (7) with threaded pin (6), then screw joint (4) onto basis (5).

12.



Widen shield braid.

13.



Insert sealing (3) completely and screw cap (2) onto basis (5).

Cable gland type	SW 1	SW 2
KB 207 / 307 / 407	23	26
KB 507	26	26

Tightening torque is 7 Nm

14.



Assembly finished.