

# **MC** Series



**S** Series

**100** Series

**VP** Series

**MCS** Series

**MC** Series











**M** Series

**MOD** 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

P/N	Description	Plug	Receptacle	Cable mount	Panel mount	Coupling	Adapter	HV-pins
5002010R	GB-MC207 POM		•		•			2
5002020R	GS-MC207 POM	•			•			2
5002030A	KS-MC207/6.5-8 POM	•		•				2
5002030B	KS-MC207/8-9.5 POM	•		•				2
5002030C	KS-MC207/9.5-11 POM	•		•				2
5002030D	KS-MC207/11-12.5 POM	•		•				2
5002030E	KS-MC207/12.5-14 POM	•		•				2
5002030M	KS-MC207/M20 POM	•		•			•	2
5002030N	KS-MC207/M25 POM	•		•			•	2
5002040A	KB-MC207/6.5-8 POM		•	•				2
5002040B	KB-MC207/8-9.5 POM		•	•				2
5002040C	KB-MC207/9.5-11 POM		•	•				2
5002040D	KB-MC207/11-12.5 POM		•	•				2
5002040E	KB-MC207/12.5-14 POM		•	•				2
5002040M	KB-MC207/M20 POM		•	•			•	2
5002040N	KB-MC207/M25 POM		•	•			•	2
5002041A	KBI-MC207/6.5-8 POM		•	•		•		2
5002041B	KBI-MC207/8-9.5 POM		•	•		•		2
5002041C	KBI-MC207/9.5-11 POM		•	•		•		2
5002041D	KBI-MC207/11-12.5 POM		•	•		•		2
5002041E	KBI-MC207/12.5-14 POM		•	•		•		2
5002041M	KBI-MC207/M20 POM		•	•		•	•	2
5002041N	KBI-MC207/M25 POM		•	•		•	•	2
5003010R	GB-MC307 POM		•		•			3
5003020R	GS-MC307 POM				•			3
5003030A	KS-MC307/6.5-8 POM	•		•				3
5003030B	KS-MC307/8-9.5 POM	•		•				3
5003030C	KS-MC307/9.5-11 POM	•		•				3
5003030D	KS-MC307/11-12.5 POM	•		•				3
5003030E	KS-MC307/12.5-14 POM	•		•				3
5003030M	KS-MC307/M20 POM	•		•			•	3
5003030N	KS-MC307/M25 POM	•		•			•	3
5003040A	KB-MC307/6.5-8 POM	•	•	•				3
5003040B	KB-MC307/8-9.5 POM		•	•				3
5003040C	KB-MC307/9.5-11 POM		•	•				3
5003040D	KB-MC307/11-12.5 POM		•	•				3
5003040E	KB-MC307/12.5-14 POM		•	•				3
5003040M	KB-MC307/M20 POM		•	•			•	3
5003040N	KB-MC307/M25 POM		•	•			•	3
5003041A	KBI-MC307/6.5-8 POM		•	•		•		3
5003041B	KBI-MC307/8-9.5 POM		•	•		•		3
5003041C	KBI-MC307/9.5-11 POM		•	•		•		3
5003041D	KBI-MC307/11-12.5 POM		•	•		•		3
5003041E	KBI-MC307/12.5-14 POM		•	•		•		3
5003041M	KBI-MC307/M20 POM		•	•		•	•	3
5003041N	KBI-MC307/M25 POM		•	•		•	•	3
5004010R	GB-MC407 POM		•		•			4
5004020R	GS-MC407 POM	•			•			4
5004030A	KS-MC407/6.5-8 POM	•		•				4
5004030B	KS-MC407/8-9.5 POM	•		•				4
5004030C	KS-MC407/9.5-11 POM	•		•				4
5004030D	KS-MC407/11-12.5 POM	•		•				4
5004030E	KS-MC407/12.5-14 POM	•		•				4
5004030M	KS-MC407/M20 POM	•		•			•	4
5004030N	KS-MC407/M25 POM	•		•			•	4
5004040A	KB-MC407/6.5-8 POM		•	•				4
5004040B	KB-MC407/8-9.5 POM		•	•				4
5004040C	KB-MC407/9.5-11 POM		•	•				4
5004040D	KB-MC407/11-12.5 POM		•	•				4
5004040E	KB-MC407/12.5-14 POM		•	•				4
5004040M	KB-MC407/M20 POM		•	•			•	4
5004040N	KB-MC407/M25 POM		•	•			•	4
5004042A	KBI-MC407/6.5-8 POM		•	•		•		4
5004042B	KBI-MC407/8-9.5 POM		•	•		•		4
5004042C	KBI-MC407/9.5-11 POM		•	•		•		4
5004042D	KBI-MC407/11-12.5 POM		•	•		•		4
5004042E	KBI-MC407/12.5-14 POM		•	•		•		4
5004042M	KBI-MC407/M20 POM		•	•		•	•	4
5004042N	KBI-MC407/M25 POM		•	•		•	•	4

P/N	Description	Plug	Receptacle	Cable mount	Panel mount	Coupling	Adapter	HV-pins
5005010R	GB-MC507 POM		•		•			5
5005020R	GS-MC507 POM	•			•			5
5005030A	KS-MC507/6.5-8 POM	•		•				5
5005030B	KS-MC507/8-9.5 POM	•		•				5
5005030C	KS-MC507/9.5-11 POM	•		•				5
5005030D	KS-MC507/11-12.5 POM	•		•				5
5005030E	KS-MC507/12.5-14 POM	•		•				5
5005030M	KS-MC507/M20 POM	•		•			•	5
5005030N	KS-MC507/M25 POM	•		•			•	5
5005040A	KB-MC507/6.5-8 POM		•	•				5
5005040B	KB-MC507/8-9.5 POM		•	•				5
5005040C	KB-MC507/9.5-11 POM		•	•				5
5005040D	KB-MC507/11-12.5 POM		•	•				5
5005040E	KB-MC507/12.5-14 POM		•	•				5
5005040M	KB-MC507/M20 POM		•	•			•	5
5005040N	KB-MC507/M25 POM		•	•			•	5
5005042A	KBI-MC507/6.5-8 POM		•	•		•		5
5005042B	KBI-MC507/8-9.5 POM		•	•		•		5
5005042C	KBI-MC507/9.5-11 POM		•	•		•		5
5005042D	KBI-MC507/11-12.5 POM		•	•		•		5
5005042E	KBI-MC507/12.5-14 POM		•	•		•		5
5005042M	KBI-MC507/M20 POM		•	•		•	•	5
5005042N	KBI-MC507/M25 POM		•	•		•	•	5
5005115R	GB-MC520 PTFE		•		•			5
5005125R	GS-MC520 PTFE	•			•			5
5005135A	KS-MC520/6.5-8 PTFE	•		•				5
5005135B	KS-MC520/8-9.5 PTFE	•		•				5
5005135C	KS-MC520/9.5-11 PTFE	•		•				5
5005135D	KS-MC520/11-12.5 PTFE	•		•				5
5005135E	KS-MC520/12.5-14 PTFE	•		•				5
5005135M	KS-MC520/M20 PTFE	•		•			•	5
5005135N	KS-MC520/M25 PTFE	•		•			•	5
5005145A	KB-MC520/6.5-8 PTFE		•	•				5
5005145B	KB-MC520/8-9.5 PTFE		•	•				5
5005145C	KB-MC520/9.5-11 PTFE		•	•				5
5005145D	KB-MC520/11-12.5 PTFE		•	•				5
5005145E	KB-MC520/12.5-14 PTFE		•	•				5
5005145M	KB-MC520/M20 PTFE		•	•			•	5
5005145N	KB-MC520/M25 PTFE		•	•			•	5
5005146A	KBI-MC520/6.5-8 PTFE		•	•		•		5
5005146B	KBI-MC520/8-9.5 PTFE		•	•		•		5
5005146C	KBI-MC520/9.5-11 PTFE		•	•		•		5
5005146D	KBI-MC520/11-12.5 PTFE		•	•		•		5
5005146E	KBI-MC520/12.5-14 PTFE		•	•		•		5
5005146M	KBI-MC520/M20 PTFE		•	•		•	•	5
5005146N	KBI-MC520/M25 PTFE		•	•		•	•	5

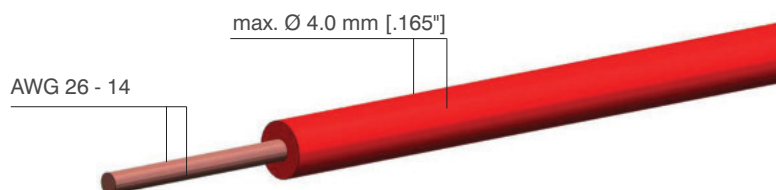
Steps	Parts				
<div>1</div> <div>Choose connector type</div> <div>Example: 2-pole</div> <div>(page 88-97)</div>	<div>receptacle, panel mount</div> <div></div>	<div>plug, panel mount</div> <div></div>	<div>receptacle, cable mount</div> <div></div>	<div>plug, cable mount</div> <div></div>	<div>coupling, cable mount</div> <div></div>
<div>2</div> <div>Choose contacts</div> <div>(page 98)</div>	<div>female contact</div> <div></div>	<div>male contact</div> <div></div>	<div>female contact</div> <div></div>	<div>male contact</div> <div></div>	<div>female contact</div> <div></div>
<div>3</div> <div>Choose accessories (optional)</div> <div>(page 99-100)</div>	<div>gaskets coverings</div>				

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 mm <sup>2</sup> - 2.5 mm <sup>2</sup> )
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		Characteristics	
Operating voltage (DC)	10 kV	Number of pins	2
Test voltage (DC)	15 kV	Insulation material	POM
Rated current	13 A		

Type / Version / Part number

Picture / Drawing

**KS-MC207**

Plug, cable mount with integrated cable gland

Part no.	Clamping range
5002030A	6.5 - 8 mm [.256" - .315"]
5002030B	8 - 9.5 mm [.315" - .374"]
5002030C	9.5 - 11 mm [.374" - .433"]
5002030D	11 - 12.5 mm [.433" - .492"]
5002030E	12.5 - 14 mm [.492" - .551"]

**KS-MC207**

Plug, cable mount with adapter M20/M25 for external cable gland

Part no.	Connecting thread
5002030M	M20 x 1.5
5002030N	M25 x 1.5

**GB-MC207**

Receptacle, panel mount

Part no. 5002010R

**KBI-MC207**

Receptacle, coupling, cable mount with integrated cable gland

Part no.	Clamping range
5002041A	6.5 - 8 mm [.256" - .315"]
5002041B	8 - 9.5 mm [.315" - .374"]
5002041C	9.5 - 11 mm [.374" - .433"]
5002041D	11 - 12.5 mm [.433" - .492"]
5002041E	12.5 - 14 mm [.492" - .551"]

**KBI-MC207**


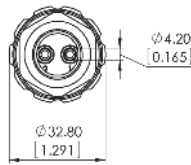
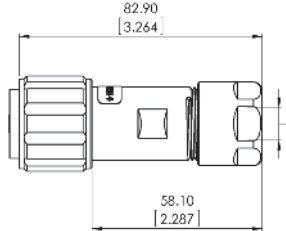

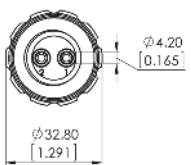
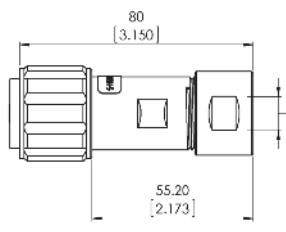

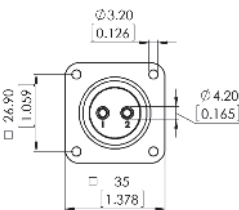
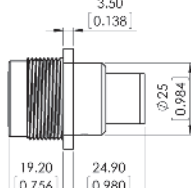
Receptacle, coupling, cable mount with adapter M20/M25 for external cable gland

Part no.	Connecting thread
5002041M	M20 x 1.5
5002041N	M25 x 1.5



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

drawing - dimensions in mm [inch]

Type / Version / Part number	Picture / Drawing		
<b>KB-MC207</b>  Receptacle, cable mount with integrated cable gland  Part no.     Clamping range 5002040A    6.5 - 8 mm [.256" - .315"] 5002040B    8 - 9.5 mm [.315" - .374"] 5002040C    9.5 - 11 mm [.374" - .433"] 5002040D    11 - 12.5 mm [.433" - .492"] 5002040E    12.5 - 14 mm [.492" - .551"]		 front view	
<b>KB-MC207</b>  Receptacle, cable mount with adapter M20/M25 for external cable gland  Part no.     Connecting thread 5002040M    M20 x 1.5 5002040N    M25 x 1.5		 front view	
<b>GS-MC207</b>  Plug, panel mount  Part no. 5002020R		 front view	


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

drawing - dimensions in mm [inch]

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

Electrical values		Characteristics	
Operating voltage (DC)	10 kV	Number of pins	3
Test voltage (DC)	15 kV	Insulation material	POM
Rated current	13 A		

Type / Version / Part number

Picture / Drawing

**KS-MC307**

Plug, cable mount with integrated cable gland

Part no.	Clamping range
5003030A	6.5 - 8 mm [.256" - .315"]
5003030B	8 - 9.5 mm [.315" - .374"]
5003030C	9.5 - 11 mm [.374" - .433"]
5003030D	11 - 12.5 mm [.433" - .492"]
5003030E	12.5 - 14 mm [.492" - .551"]

3D perspective view of the KS-MC307 plug. The front view drawing shows a circular face with three pins. Dimensions: pin diameter  $\phi 4.20$  [0.165], outer diameter  $\phi 32.80$  [1.291], total length 82.90 [3.264], and mounting length 58.10 [2.287].

front view

**KS-MC307**

Plug, cable mount with adapter M20/M25 for external cable gland

Part no.	Connecting thread
5003030M	M20 x 1.5
5003030N	M25 x 1.5

3D perspective view of the KS-MC307 plug with adapter. The front view drawing shows a circular face with three pins. Dimensions: pin diameter  $\phi 4.20$  [0.165], outer diameter  $\phi 32.80$  [1.291], total length 78.50 [3.091], and mounting length 53.70 [2.114].

front view

**GB-MC307**

Receptacle, panel mount

Part no. 5003010R

3D perspective view of the GB-MC307 receptacle. The front view drawing shows a square face with three pins. Dimensions: pin diameter  $\phi 3.20$  [0.126], outer diameter  $\phi 26.90$  [1.059], mounting hole diameter  $\phi 35$  [1.378], pin diameter  $\phi 4.20$  [0.165], total length 3.50 [0.138], and mounting hole diameter  $\phi 25$  [0.984].

front view

**KBI-MC307**

Receptacle, coupling, cable mount with integrated cable gland

Part no.	Clamping range
5003041A	6.5 - 8 mm [.256" - .315"]
5003041B	8 - 9.5 mm [.315" - .374"]
5003041C	9.5 - 11 mm [.374" - .433"]
5003041D	11 - 12.5 mm [.433" - .492"]
5003041E	12.5 - 14 mm [.492" - .551"]

3D perspective view of the KBI-MC307 receptacle. The front view drawing shows a circular face with three pins. Dimensions: pin diameter  $\phi 4.20$  [0.165], outer diameter  $\phi 28.58$  [1.125], total length 60 [2.362], and mounting length 81.30 [3.201].

front view

**KBI-MC307**

Receptacle, coupling, cable mount with adapter M20/M25 for external cable gland

Part no.	Connecting thread
5003041M	M20 x 1.5
5003041N	M25 x 1.5

3D perspective view of the KBI-MC307 receptacle with adapter. The front view drawing shows a circular face with three pins. Dimensions: pin diameter  $\phi 4.20$  [0.165], outer diameter  $\phi 28.58$  [1.125], total length 56.50 [2.224], and mounting length 77.80 [3.063].

front view



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

drawing - dimensions in mm [inch]



Type / Version / Part number

Picture / Drawing

**KB-MC307**

Receptacle, cable mount with integrated cable gland

Part no.	Clamping range
5003040A	6.5 - 8 mm [.256" - .315"]
5003040B	8 - 9.5 mm [.315" - .374"]
5003040C	9.5 - 11 mm [.374" - .433"]
5003040D	11 - 12.5 mm [.433" - .492"]
5003040E	12.5 - 14 mm [.492" - .551"]

front view

**KB-MC307**

Receptacle, cable mount with adapter M20/M25 for external cable gland

Part no.	Connecting thread
5003040M	M20 x 1.5
5003040N	M25 x 1.5


front view

**GS-MC307**

Plug, panel mount

Part no. 5003020R

front view


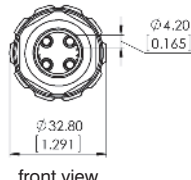

**Contacts, cable glands and accessories:** pages 96-98  
**Mounting instructions:** pages 99-110


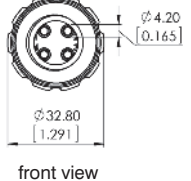
drawing - dimensions in mm [inch]


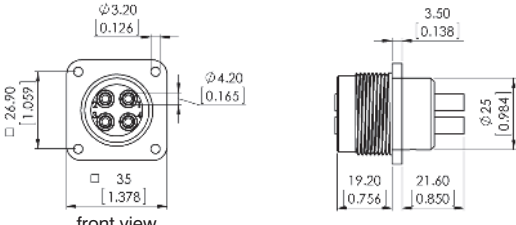
Plug, cable mount / Receptacle, panel mount / Receptacle, coupling, cable mount


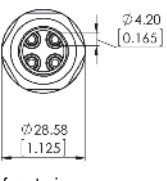
Electrical values		Characteristics	
Operating voltage (DC)	10 kV	Number of pins	4
Test voltage (DC)	15 kV	Insulation material	POM
Rated current	13 A		


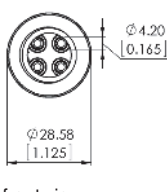
Type / Version / Part number	Picture / Drawing
------------------------------	-------------------

<b>KS-MC407</b>  <b>Plug, cable mount with integrated cable gland</b>  <table> <tr> <th>Part no.</th><th>Clamping range</th></tr> <tr> <td>5004030A</td><td>6.5 - 8 mm [.256" - .315"]</td></tr> <tr> <td>5004030B</td><td>8 - 9.5 mm [.315" - .374"]</td></tr> <tr> <td>5004030C</td><td>9.5 - 11 mm [.374" - .433"]</td></tr> <tr> <td>5004030D</td><td>11 - 12.5 mm [.433" - .492"]</td></tr> <tr> <td>5004030E</td><td>12.5 - 14 mm [.492" - .551"]</td></tr> </table>	Part no.	Clamping range	5004030A	6.5 - 8 mm [.256" - .315"]	5004030B	8 - 9.5 mm [.315" - .374"]	5004030C	9.5 - 11 mm [.374" - .433"]	5004030D	11 - 12.5 mm [.433" - .492"]	5004030E	12.5 - 14 mm [.492" - .551"]	 
Part no.	Clamping range												
5004030A	6.5 - 8 mm [.256" - .315"]												
5004030B	8 - 9.5 mm [.315" - .374"]												
5004030C	9.5 - 11 mm [.374" - .433"]												
5004030D	11 - 12.5 mm [.433" - .492"]												
5004030E	12.5 - 14 mm [.492" - .551"]												

<b>KS-MC407</b>  <b>Plug, cable mount with adapter M20/M25 for external cable gland</b>  <table> <tr> <th>Part no.</th><th>Connecting thread</th></tr> <tr> <td>5004030M</td><td>M20 x 1.5</td></tr> <tr> <td>5004030N</td><td>M25 x 1.5</td></tr> </table>	Part no.	Connecting thread	5004030M	M20 x 1.5	5004030N	M25 x 1.5	 
Part no.	Connecting thread						
5004030M	M20 x 1.5						
5004030N	M25 x 1.5						


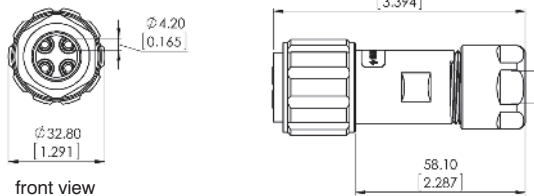

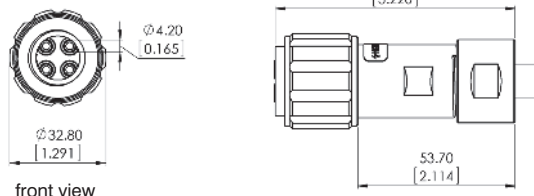

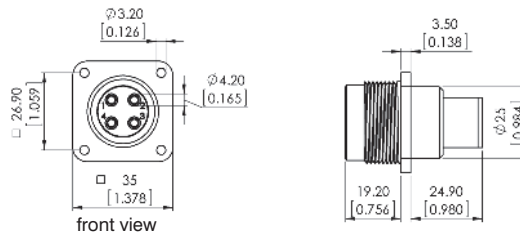
<b>GB-MC407</b>  <b>Receptacle, panel mount</b>  <b>Part no. 5004010R</b>	 
---	---

<b>KBI-MC407</b>  <b>Receptacle, coupling, cable mount with integrated cable gland</b>  <table> <tr> <th>Part no.</th><th>Clamping range</th></tr> <tr> <td>5004042A</td><td>6.5 - 8 mm [.256" - .315"]</td></tr> <tr> <td>5004042B</td><td>8 - 9.5 mm [.315" - .374"]</td></tr> <tr> <td>5004042C</td><td>9.5 - 11 mm [.374" - .433"]</td></tr> <tr> <td>5004042D</td><td>11 - 12.5 mm [.433" - .492"]</td></tr> <tr> <td>5004042E</td><td>12.5 - 14 mm [.492" - .551"]</td></tr> </table>	Part no.	Clamping range	5004042A	6.5 - 8 mm [.256" - .315"]	5004042B	8 - 9.5 mm [.315" - .374"]	5004042C	9.5 - 11 mm [.374" - .433"]	5004042D	11 - 12.5 mm [.433" - .492"]	5004042E	12.5 - 14 mm [.492" - .551"]	 
Part no.	Clamping range												
5004042A	6.5 - 8 mm [.256" - .315"]												
5004042B	8 - 9.5 mm [.315" - .374"]												
5004042C	9.5 - 11 mm [.374" - .433"]												
5004042D	11 - 12.5 mm [.433" - .492"]												
5004042E	12.5 - 14 mm [.492" - .551"]												

<b>KBI-MC407</b>  <b>Receptacle, coupling, cable mount with adapter M20/M25 for external cable gland</b>  <table> <tr> <th>Part no.</th><th>Connecting thread</th></tr> <tr> <td>5004042M</td><td>M20 x 1.5</td></tr> <tr> <td>5004042N</td><td>M25 x 1.5</td></tr> </table>	Part no.	Connecting thread	5004042M	M20 x 1.5	5004042N	M25 x 1.5	 
Part no.	Connecting thread						
5004042M	M20 x 1.5						
5004042N	M25 x 1.5						

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

drawing - dimensions in mm [inch]


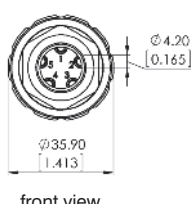
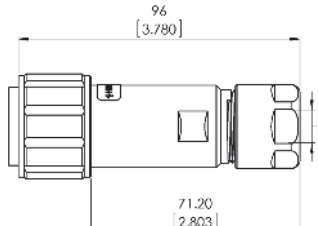

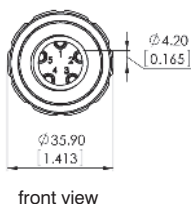
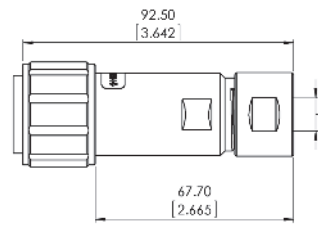

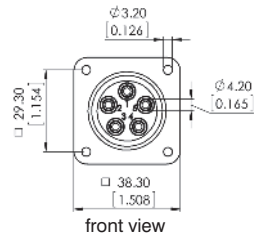
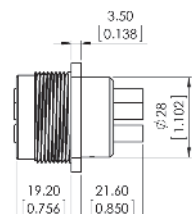

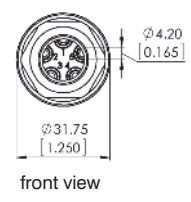
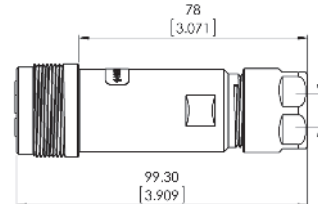

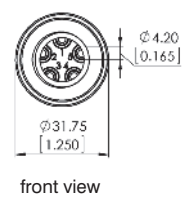
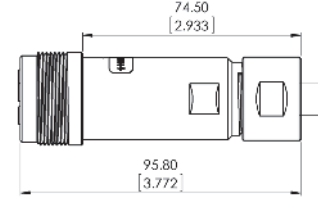
Type / Version / Part number	Picture / Drawing	
<b>KB-MC407</b>  Receptacle, cable mount with integrated cable gland  Part no.    Clamping range 5004040A    6.5 - 8 mm [.256" - .315"] 5004040B    8 - 9.5 mm [.315" - .374"] 5004040C    9.5 - 11 mm [.374" - .433"] 5004040D    11 - 12.5 mm [.433" - .492"] 5004040E    12.5 - 14 mm [.492" - .551"]	  <p>front view</p>	
<b>KB-MC407</b>  Receptacle, cable mount with adapter M20/M25 for external cable gland  Part no.    Connecting thread 5004040M    M20 x 1.5 5004040N    M25 x 1.5	  <p>front view</p>	
<b>GS-MC407</b>  Plug, panel mount  Part no. 5004020R	  <p>front view</p>	

drawing - dimensions in mm [inch]


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

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


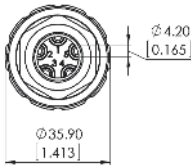
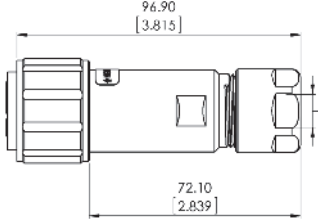

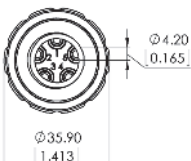
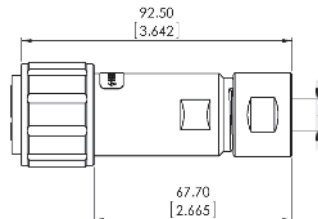

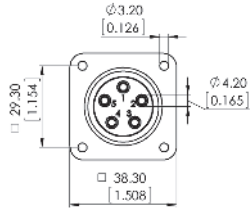
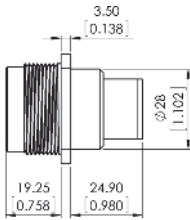
Electrical values		Characteristics	
Operating voltage (DC)	10 kV	Number of pins	5
Test voltage (DC)	15 kV	Insulation material	POM
Rated current	13 A		


Type / Version / Part number	Picture / Drawing														
<b>KS-MC507</b>  Plug, cable mount with integrated cable gland  <table><tr><th>Part no.</th><th>Clamping range</th></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"]			
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"]														
<b>KS-MC507</b>  Plug, cable mount with adapter M20/M25 for external cable gland  <table><tr><th>Part no.</th><th>Connecting thread</th></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									
Part no.	Connecting thread														
5005030M	M20 x 1.5														
5005030N	M25 x 1.5														
<b>GB-MC507</b>  Receptacle, panel mount  Part no. 5005010R															
<b>KBI-MC507</b>  Receptacle, coupling, cable mount with integrated cable gland  <table><tr><th>Part no.</th><th>Clamping range</th></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"]			
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"]														
<b>KBI-MC507</b>  Receptacle, coupling, cable mount with adapter M20/M25 for external cable gland  <table><tr><th>Part no.</th><th>Connecting thread</th></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									
Part no.	Connecting thread														
5005042M	M20 x 1.5														
5005042N	M25 x 1.5														



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

drawing - dimensions in mm [inch]

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

Electrical values		Characteristics	
Operating voltage (DC)	15 kV	Number of pins	5
Test voltage (DC)	23 kV	Insulation material	PTFE
Rated current	13 A		

Type / Version / Part number

Picture / Drawing

**KS-MC520**

Plug, cable mount with integrated cable gland

Part no.	Clamping range
5005135A	6.5 - 8 mm [.256" - .315"]
5005135B	8 - 9.5 mm [.315" - .374"]
5005135C	9.5 - 11 mm [.374" - .433"]
5005135D	11 - 12.5 mm [.433" - .492"]
5005135E	12.5 - 14 mm [.492" - .551"]

**KS-MC520**

Plug, cable mount with adapter M20/M25 for external cable gland

Part no.	Connecting thread
5005135M	M20 x 1.5
5005135N	M25 x 1.5

**GB-MC520**

Receptacle, panel mount

Part no. 5005115R

**KBI-MC520**

Receptacle, coupling, cable mount with integrated cable gland

Part no.	Clamping range
5005146A	6.5 - 8 mm [.256" - .315"]
5005146B	8 - 9.5 mm [.315" - .374"]
5005146C	9.5 - 11 mm [.374" - .433"]
5005146D	11 - 12.5 mm [.433" - .492"]
5005146E	12.5 - 14 mm [.492" - .551"]

**KBI-MC520**


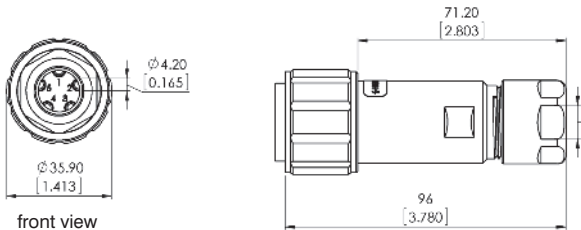

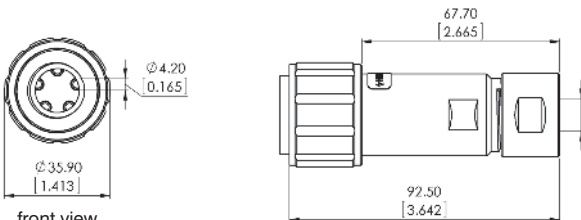

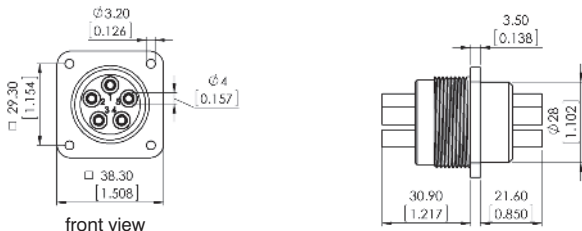
Receptacle, coupling, cable mount with adapter M20/M25 for external cable gland

Part no.	Connecting thread
5005146M	M20 x 1.5
5005146N	M25 x 1.5

drawing - dimensions in mm [inch]



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

Type / Version / Part number	Picture / Drawing	
<b>KB-MC520</b>  Receptacle, cable mount with integrated cable gland  Part no.    Clamping range 5005145A   6.5 - 8 mm [.256" - .315"] 5005145B   8 - 9.5 mm [.315" - .374"] 5005145C   9.5 - 11 mm [.374" - .433"] 5005145D   11 - 12.5 mm [.433" - .492"] 5005145E   12.5 - 14 mm [.492" - .551"]		 <p>front view</p>
<b>KB-MC520</b>  Receptacle, cable mount with adapter M20/M25 for external cable gland  Part no.    Connecting thread 5005145M   M20 x 1.5 5005145N   M25 x 1.5		 <p>front view</p>
<b>GS-MC520</b>  Plug, panel mount  Part no. 5005125R		 <p>front view</p>

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

drawing - dimensions in mm [inch]

## Male contacts 1.6 mm

Part no.	Description	Cross section in mm <sup>2</sup> (D)	AWG	Silver plated	Gold plated	Drawing
6575085	male contact 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22	•		
6575086	male contact 1.6 mm / AWG 20	0.5	20	•		
6575088	male contact 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16	•		
6575090	male contact 1.6 mm / AWG 16 - 15	1.5	16 - 15	•		
6575083	male contact 1.6 mm / AWG 14	2.5	14	•		
6575118	male contact AU 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22		•	
6575121	male contact AU 1.6 mm / AWG 20	0.5	20		•	
6575116	male contact AU 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16		•	
6575124	male contact AU 1.6 mm / AWG 16 - 15	1.5	16 - 15		•	
6575125	male contact AU 1.6 mm / AWG 14	2.5	14		•	

drawing - dimensions in mm [inch]

## Male contact 1.6 mm interlock for safety interlock circle

Part no.	Description	Cross section in mm <sup>2</sup> (D)	AWG	Silver plated	Gold plated	Drawing
6575079	male contact interlock 1.6 mm / AWG 14 <i>Short version for safety interlock circle</i>	2.5	14	•		

drawing - dimensions in mm [inch]

## Female contacts 1.6 mm

Part no.	Description	Cross section in mm <sup>2</sup> (D)	AWG	Silver plated	Gold plated	Drawing
6575095	female contact 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22	•		
6575107	female contact 1.6 mm / AWG 20	0.5	20	•		
6575098	female contact 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16	•		
6575100	female contact 1.6 mm / AWG 16 - 15	1.5	16 - 15	•		
6575084	female contact 1.6 mm / AWG 14	2.5	14	•		
6575127	female contact AU 1.6 mm / AWG 26 - 22	0.14 - 0.37	26 - 22		•	
6575131	female contact AU 1.6 mm / AWG 20	0.5	20		•	
6575117	female contact AU 1.6 mm / AWG 20 - 16	0.75 - 1.0	20 - 16		•	
6575132	female contact AU 1.6 mm / AWG 16 - 15	1.5	16 - 15		•	
6575133	female contact AU 1.6 mm / AWG 14	2.5	14		•	

drawing - dimensions in mm [inch]



## For adapter versions: Screwed cable glands M20 / M25

Part no.	Description	Clamping range in mm (D)	Drawing
1674058	screwed cable gland M20x1.5, 5-10 mm	5 - 10	
1674110	screwed cable gland M20x1.5, 10-14 mm	10 - 14	
1674111	screwed cable gland M20x1.5, 7-12 mm	7 - 12	
1674117	screwed cable gland M25 x 1.5, 13-18 mm	13-18	
1674119	screwed cable gland M25 x 1.5, 9-16 mm	9-16	

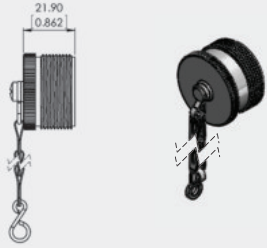
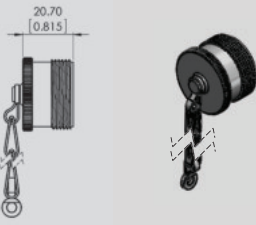
drawing - dimensions in mm [inch]

## Gaskets

Part no.	Description	Drawing
6572081	Flat gasket for types GS/GB 207 - 407 (Size 18)	
6572054	Flat gasket for types GS/GB 507/520 (Size 20)	

drawing - dimensions in mm [inch]

Coverings with thread

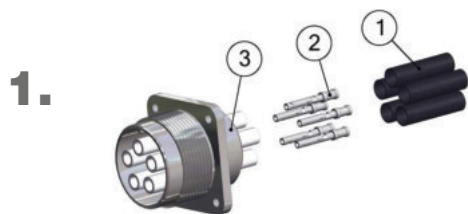
P/N	Description	Mechanical drawing
1672070	Covering for types KS/KB 507	 chain length min. 120 mm
1672072	Covering for types KS/KB 207 - 407	 chain length min. 120 mm

drawing - dimensions in mm [inch]

Tools

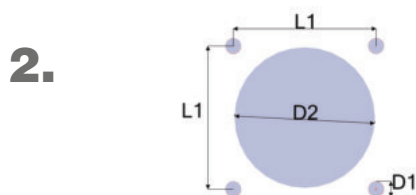
Part No.	Description	Connector types
3000001	Extracting tool for contacts 1.6 mm - male and female	MC 207 - 507
3000015	Crimping tool for contacts 1.6 mm - male and female incl. pliers, contact holder and crimping cheeks	MC 207 - 507, MC 520
3000050	Screwdriver for threaded pin size M3	MC 207 - 507, MC 520

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



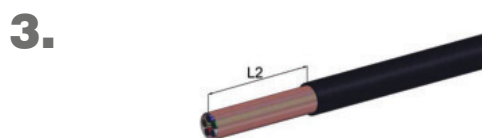
## Part as supplied

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



## Panel cut out

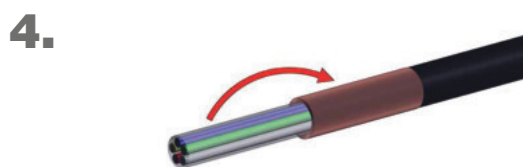
Type	L1 mm [inch]	D1 mm [inch]	D2 mm [inch]
GB 207 / 307 / 407	26.90 [1.059"]	3.00 [.118"]	26.00 [1.024"]
GB 507	29.30 [1.154"]	3.00 [.118"]	29.00 [1.142"]



## Carefully remove cable jacket.

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

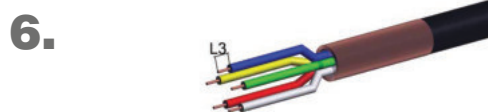
⚠ Do not damage metal shield braid



## 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.



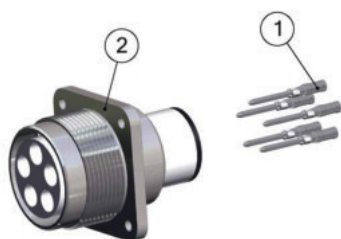
Assembly finished.

# Assembly Instructions

## Series MC - type 207-507

### plug, panel mount

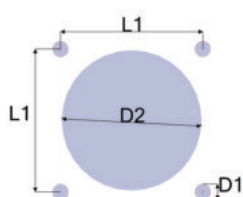
1.



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.

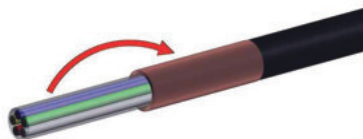


Carefully remove cable jacket.

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.



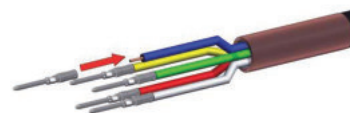
Remove any filling elements from cable.

6.



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

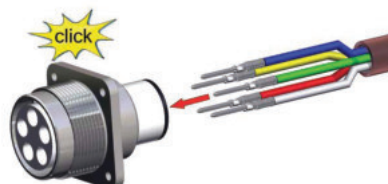
7.



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

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

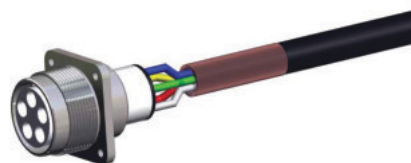
8.



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

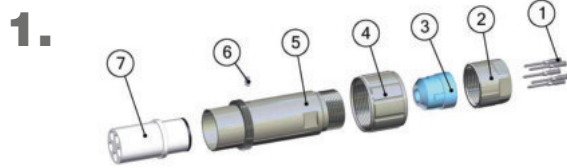
💬 Pull gently to check that contacts are correctly located and remain in position.

9.



Assembly finished.

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

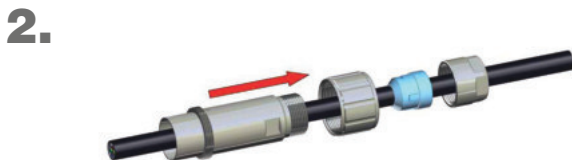


**Part as supplied**

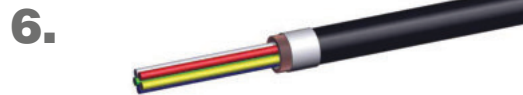
Male contacts (1), cap (2), sealing insert (3), screw joint (4), basis (5), threaded pin (6), insulation insert (7).



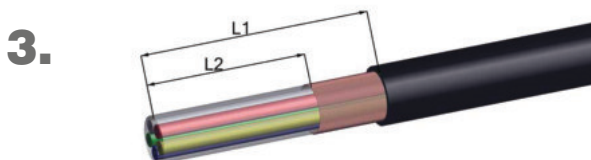
Fix shield braid with tape.



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



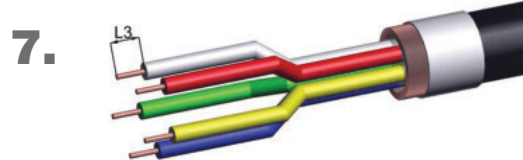
Remove any filling elements from cable.



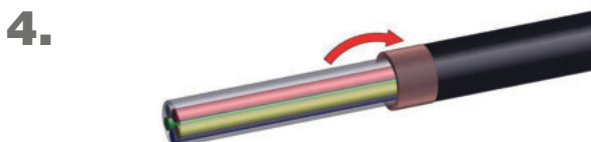
Remove cable jacket.

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.

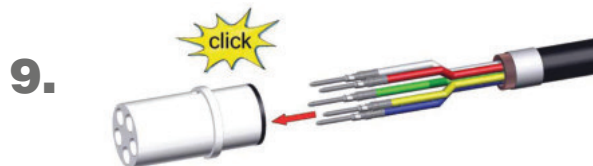


Crimp or solder female contacts (1) on conductor.

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

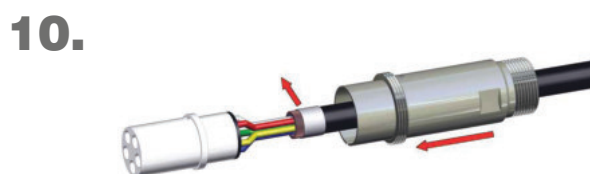
# Assembly Instructions Series MC - type 207-507 plug, cable mount

MC Series



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.



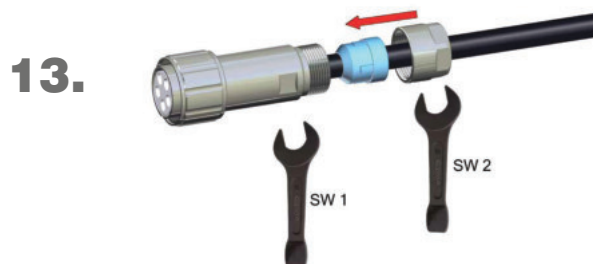
Remove tape and place basis (5) onto insulation insert (7)



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



Widen shield braid.



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

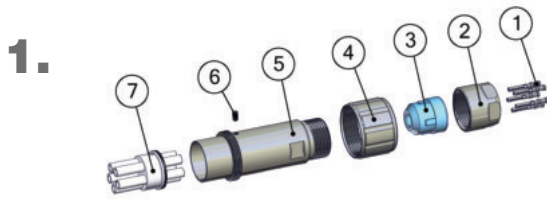
Cable gland type	SW 1	SW 2
KS 207 / 307 / 407	23	26
KS 507	26	26

Tightening torque is 7 Nm



Assembly finished.

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

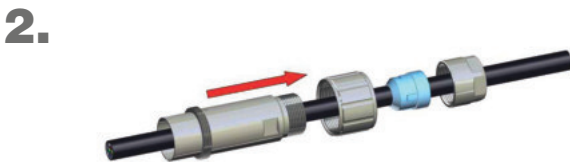


**Part as supplied.**

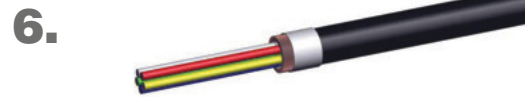
Female contacts (1), cap (2), sealing insert (3), screw joint (4), basis (5), threaded pin (6), insulation insert (7).



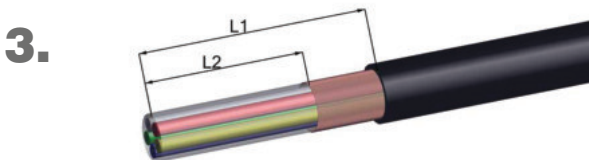
Fix shield braid with tape.



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



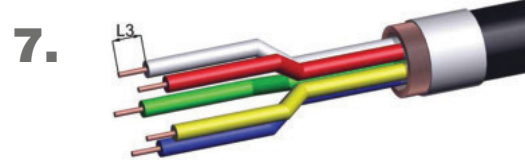
Remove any filling elements from cable.



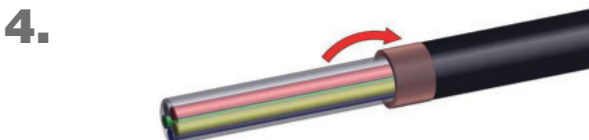
Remove cable jacket.

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

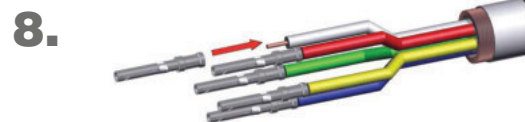
⚠ Do not damage metal shield braid.



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.

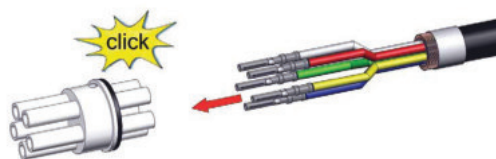


# Assembly Instructions

## Series MC - type 207-507

### receptacle cable mount & coupling

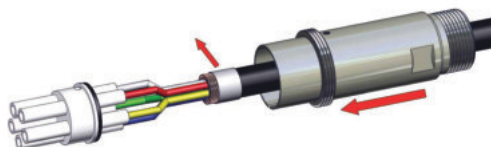
9.



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.



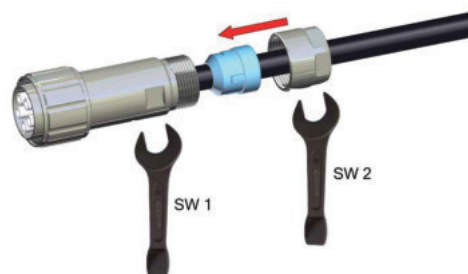
Secure insulation insert (7) with threaded pin (6), then screw joint (4) onto basis (5).

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.

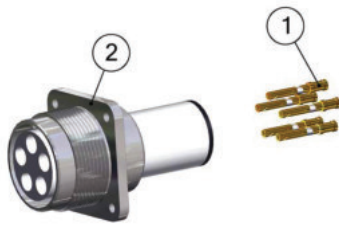


Assembly finished.



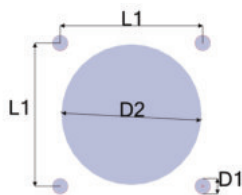
# Assembly Instructions Series MC - type 520 receptacle, panel mount

1.



Part as supplied.  
Female contacts (1), connector housing (2)

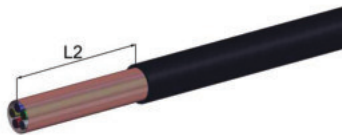
2.



Panel cut out

Type	L1 mm [inch]	D1 mm [inch]	D2 mm [inch]
GB 520	29.30 [1.154"]	3.00 [.118"]	28.70 [1.142"]

3.

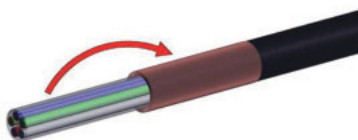


Carefully remove cable jacket.

Type	L2 mm [inch]
GB 520	min. 60 [2.362"]

⚠ Do not damage metal shield braid

4.



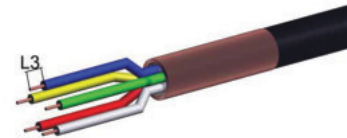
Fold back shield braid.

5.



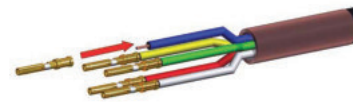
Remove any filling elements from cable.

6.



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

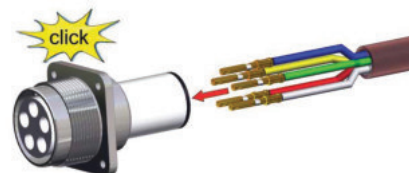
7.



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

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

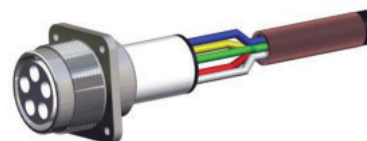
8.



Slide contacts completely into connector shell until contacts snap into place.

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

9.



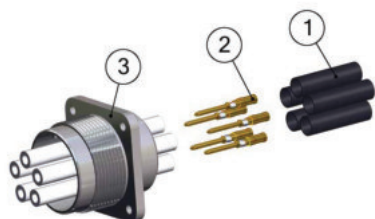
Assembly finished.

# Assembly Instructions

## Series MC - type 520

### plug, panel mount

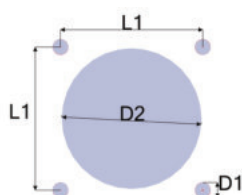
1.



Part as supplied.

Shrinking tubes (1), male contacts (2), connector housing (3).

2.



Panel cut out

Type	L1 mm [inch]	D1 mm [inch]	D2 mm [inch]
GS 520	29.30 [1.154"]	3.00 [.118"]	29.00 [1.142"]

3.

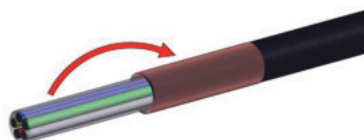


Carefully remove cable jacket.

Type	L2 mm [inch]
GS 520	min. 60 [2.362"]

⚠ Do not damage metal shield braid.

4.



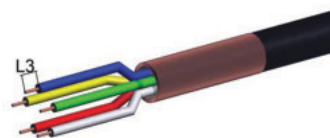
Fold back shield braid.

5.



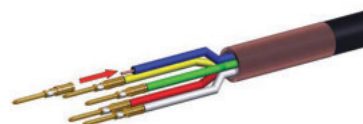
Remove any filling elements from cable.

6.



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

7.



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

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

8.



Put shrinking tubes on insulation tubes on back of connector housing.

9.



Slide contacts completely into insulation tubes until contacts snap into place.

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

10.



Shrink tubes - shrinking temperature 110°C.

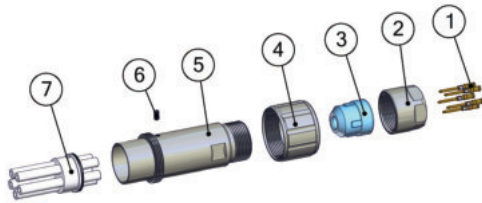
11.



Assembly finished.

# Assembly Instructions Series MC - type 520 plug, cable mount

**1.**



**Part as supplied**

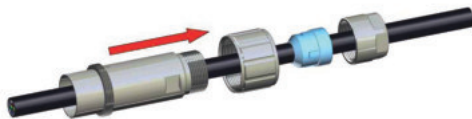
Male contacts (1), cap (2), sealing insert (3), screw joint (4), basis (5), threaded pin (6), insulation insert (7).

**5.**



Fix shield braid with tape.

**2.**



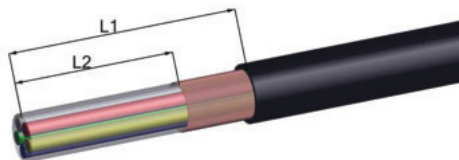
Place cap (2), sealing insert (3), screw joint (4) and basis (5) onto cable.

**6.**



Remove any filling elements from cable.

**3.**

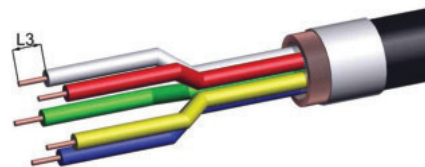


Remove cable jacket.

Type	L1 mm [inch]	L2 mm [inch]
KS 520	60 [2.362"]	45 [1.772"]

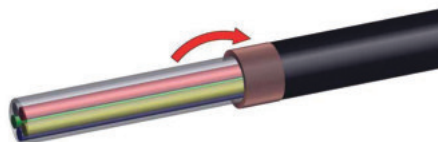
⚠ Do not damage metal shield braid.

**7.**



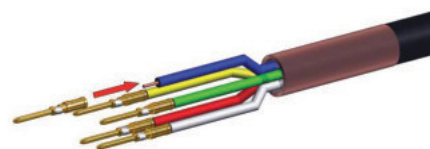
Remove dielectric insulation (L3 = 5-8 mm [.197" - .315"]).

**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 520 plug, cable mount

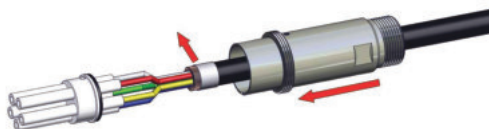
9.



Slide male contacts (1) completely into insulation tubes (7) until contacts snap into place.

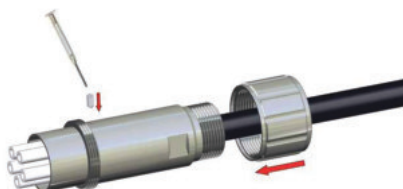
 Pull gently to check that contacts are correctly located and remain in position.

10.



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

11.



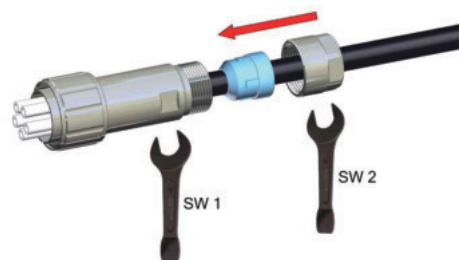
Secure insulation insert (7) with threaded pin (6), then screw joint (4) onto basis (5).

12.



Widen shield braid.

13.



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

Cable gland type	SW 1	SW 2
KS 520	26	26

Tightening torque is 7 Nm

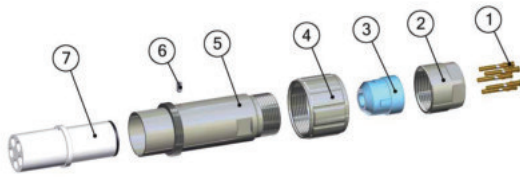
14.



Assembly finished.

# Assembly Instructions Series MC - type 520 receptacle, cable mount & coupling

1.



**Part as supplied.**

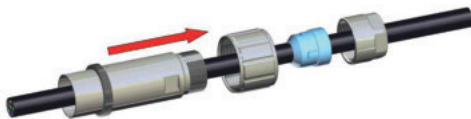
Female contacts (1), cap (2), sealing insert (3), screw joint (4), basis (5), threaded pin (6), insulation insert (7).

5.



Fix shield braid with tape.

2.



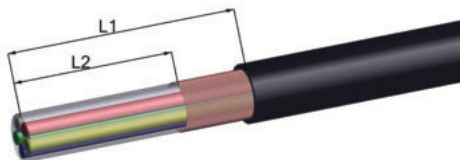
Place cap (2), sealing insert (3), screw joint (4) and basis (5) onto cable

6.



Remove any filling elements from cable.

3.

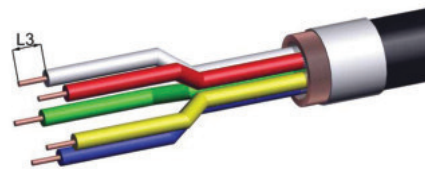


Remove cable jacket.

Type	L1 mm [inch]	L2 mm [inch]
KB 520	50 [1.968"]	35 [1.377"]

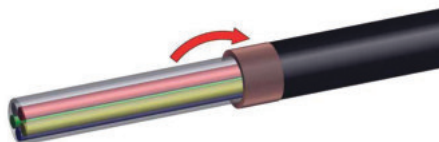
⚠ Do not damage metal shield braid

7.



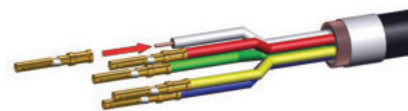
Remove dielectric insulation  
(L3 = 5-8 mm [.197" - .315"]).

4.



Fold back shield braid over jacket.

8.



Crimp or solder female contacts (1) on conductor.

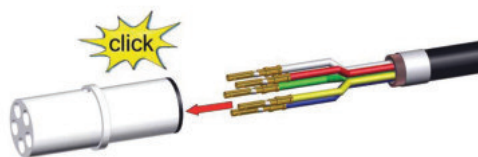
⚠ For soldering: Tin-solder must not remain on contact surface.

# Assembly Instructions


## Series MC - type 520

### receptacle, cable mount & coupling

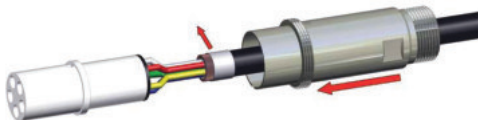
9.



Slide female contacts (1) completely into housing basis (7) until contacts snap into place.

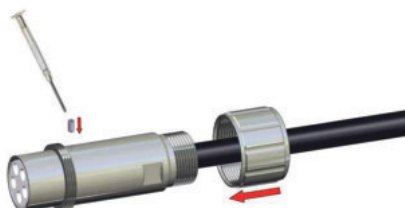
 Pull gently to check that contacts are correctly located and remain in position

10.



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

11.



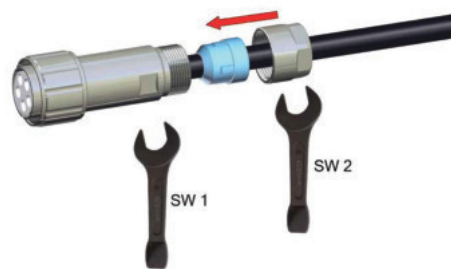
Secure insulation insert (7) with threaded pin (6), then screw joint (4) onto basis (5).

12.



Widen shield braid.

13.



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

Cable gland type	SW 1	SW 2
KB 520	26	26

Tightening torque is 7 Nm

14.



Assembly finished.