



- > Operating voltage up to 5 kVDC
- > Operating current up to 4,5 A
- > 2 6 high voltage contacts
- > Quick and easy assembling
- > Protection class IP68 acc. DIN EN 60529

General characteristics and technical data Series MCS



Housing	
Locking system	threaded coupling
Panel mount type	round flange
Housing material	brass (CuZn)
Surface plating	nickel (Ni)
Protection class acc. DIN EN 60529 (mated connector)	IP68
Operating temperature	-30°C to +80°C

Contacts 0.7 mm	
Termination method	solder / crimp
Rated current	4.5 A
Contact resistance	< 0,7 mΩ
Contact diameter	0.7 mm [.028"]
Wire size	AWG 26 - 22 (0.15-0.38 mm ²)
Contact material	brass (CuZn)
Contact plating	gold (Au)
Mating cycles	≥ 5000

Insulation inserts	
Number of contacts	2, 4, 6
Insulation material	PBT
Flammability class	UL94 V-0
Operating temperature	-40 °C to +150 °C
CTI value	600
Insulation material group	I (DIN IEC 60664)
Max. diameter of dielectric cable insulation	1.6 mm

Configurations			
Туре	205	405	605
Receptacle			
Plug			

Suitable cable dimensions (single wire)





Type MCS205 **2-pole 5 kVDC**

Electrical Values		Characteristics	
Operating Voltage (DC)	5 kV	Number of pins	2
Test Voltage (DC)	8 kV	Insulation material	PBT
Rated Current	4.5 A		
Type / Version / Description	Picture / Drawing		
GB-MCS205 Receptacle, panel mount incl. female contacts 0.7 mm			25,50 2.80 1.004] [0.110] 0.1000 0.1000 0.1000 0.1000 0.1000 0.10
GS-MCS205 plug, panel mount incl. male contacts 0.7 mm	E		
KS-MCS205 plug, cable mount incl. male contacts 0.7 mm		16 33.20 [0.630] [1.307] 38 0 39 0 74 [2.913]	24.80
KB-MCS205 Receptacle, cable mount incl. female contacts 0.7 mm		16 33.20 [0.630] [1.307] 38 1 39 1 30 1 <tr< th=""><th>24.80 [0.976]</th></tr<>	24.80 [0.976]

drawing - dimensions in mm [inch]

Part no.	Description	Plug	Receptacle	Cable mount	Panel mount	Clamping range (in mm [inch]) Screwed cable gland
5001200	GB-MCS205		•		٠	
5001205	GS-MCS205	٠			٠	
5001210	KS-MCS205 6.5 - 4.0	٠		٠		6.5 - 4.0 [.256"157"]
5001211	KS-MCS205 8.0 - 5.0	٠		٠		8.0 – 5.0 [.315"197"]
5001212	KS-MCS205 9.5 - 6.5	٠		٠		9.5 - 6.5 [.374"256"]
5001213	KS-MCS205 10.5 - 7.0	٠		٠		10.5 – 7.0 [.413"276"]
5001220	KB-MCS205 6.5 - 4.0		٠	٠		6.5 - 4.0 [.256"157"]
5001221	KB-MCS205 8.0 - 5.0		•	•		8.0 – 5.0 [.315"197"]
5001222	KB-MCS205 9.5 - 6.5		•	•		9.5 - 6.5 [.374"256"]
5001223	KB-MCS205 10.5 - 7.0		٠	٠		10.5 - 7.0 [.413"276"]



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Type MCS405 **4-pole 5 kVDC**



Electrical Values		Characteristics	
Operating Voltage (DC)	5 kV	Number of pins	4
Test Voltage (DC)	8 kV	Insulation material	PBT
Rated Current	4.5 A		
Type / Version / Description	Picture / Drawing		
GB-MCS405 Receptacle, panel mount incl. female contacts 0.7 mm		01:12 01:12	
GS-MCS405 plug, panel mount incl. male contacts 0.7 mm		072,20 0874 01:12 13.80 13.80 10:543 10:044 01:12 10:044 01:12 10:044 10:04	
KS-MCS405 plug, cable mount incl. male contacts 0.7 mm			.80
KB-MCS405 Receptacle, cable mount incl. female contacts 0.7 mm			.80

drawing - dimensions in mm [inch]

Part no.	Description	Plug	Receptacle	Cable mount	Panel mount	Clamping range (in mm [inch]) Screwed cable gland
5001400	GB-MCS405		٠		٠	
5001405	GS-MCS405	•			٠	
5001410	KS-MCS405 6.5 - 4.0	•		٠		6.5 – 4.0 [.256"157"]
5001411	KS-MCS405 8.0 - 5.0	٠		٠		8.0 – 5.0 [.315"197"]
5001412	KS-MCS405 9.5 - 6.5	•		٠		9.5 - 6.5 [.374"256"]
5001413	KS-MCS405 10.5 - 7.0	٠		٠		10.5 – 7.0 [.413"276"]
5001420	KB-MCS405 6.5 - 4.0		٠	٠		6.5 – 4.0 [.256"157"]
5001421	KB-MCS405 8.0 - 5.0		•	•		8.0 – 5.0 [.315"197"]
5001422	KB-MCS405 9.5 - 6.5		•	•		9.5 – 6.5 [.374"256"]
5001423	KB-MCS405 10.5 - 7.0		٠	٠		10.5 – 7.0 [.413"276"]



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Type MCS605 6-pole 5 kVDC

Electrical Values		Characteristics	
Operating Voltage (DC)	5 kV	Number of pins	6
Test Voltage (DC)	8 kV	Insulation material	PBT
Rated Current	4.5 A		
Type / Version / Description	Picture / Drawing		
GB-MCS605 Receptacle, panel mount incl. female contacts 0.7 mm		0122 012 01	04] [0.110] [0.282 [0.282 [0.282 [0.282] [0.29
GS-MCS605 plug, panel mount incl. male contacts 0.7 mm		072,70 072,70 0.543 [1.0 0.543] 0.543 [1.0 0.543] 0.543 [1.0 40.40 [1.591]	
KS-MCS605 plug, cable mount incl. male contacts 0.7 mm			24.80
KB-MCS605 Receptacle, cable mount incl. female contacts 0.7 mm		16 33.20 [0.630] [1.307] 10 1.307 10 1.307 10 1.307 10 1.307 10 1.307 10 1.307 10 1.307 10 1.307 10 1.307 11 1.307 12 1.307 13 1.307	24.80
	L		drawing - dimensions in mm [inch]

Part no.	Description	Plug	Receptacle	Cable mount	Panel mount	Clamping range (in mm [inch]) Screwed cable gland
5001600	GB-MCS605		•		•	
5001605	GS-MCS605	٠			٠	
5001610	KS-MCS605 6.5 - 4.0	•		٠		6.5 – 4.0 [.256"157"]
5001611	KS-MCS605 8.0 - 5.0	٠		٠		8.0 – 5.0 [.315"197"]
5001612	KS-MCS605 9.5 - 6.5	٠		٠		9.5 - 6.5 [.374"256"]
5001613	KS-MCS605 10.5 - 7.0	٠		٠		10.5 – 7.0 [.413"276"]
5001620	KB-MCS605 6.5 - 4.0		٠	٠		6.5 - 4.0 [.256"157"]
5001621	KB-MCS605 8.0 - 5.0		•	•		8.0 – 5.0 [.315"197"]
5001622	KB-MCS605 9.5 - 6.5		•	٠		9.5 - 6.5 [.374"256"]
5001623	KB-MCS605 10.5 - 7.0		٠	٠		10.5 – 7.0 [.413"276"]



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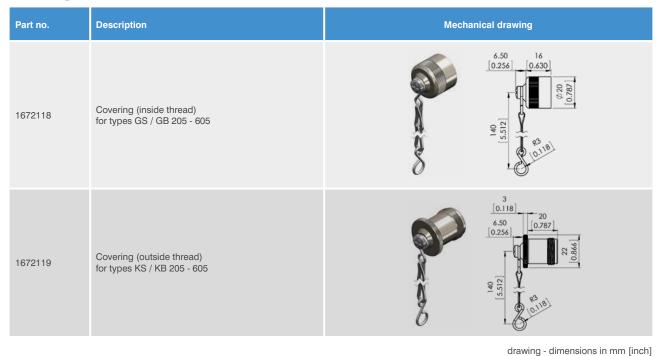


Contacts

Part no.	Description	Cross section In mm² (D)	AWG (D)	Mechanical drawing
6575150	Male contact 0.7 mm	0.15 – 0.38	26 - 22	0.80 0.181 0.161 0.311 0.181 0.161 0.311 0.181 0.161 0.311 0.180 0.000 0.180 0.000 0.000 0000
6575160	Female contact 0.7 mm	0.15 – 0.38	26 - 22	01.181 0.161 0.311 01.181 0.161 0.311 01.181 0.161 0.311 01.180 0.181 01.180 0.181 0.181 0.161 0.311 01.180 0 01.180 0 01.180 0 01.180 0 01.180 0 01.180 0 01.180 0 0.181

Coverings with thread

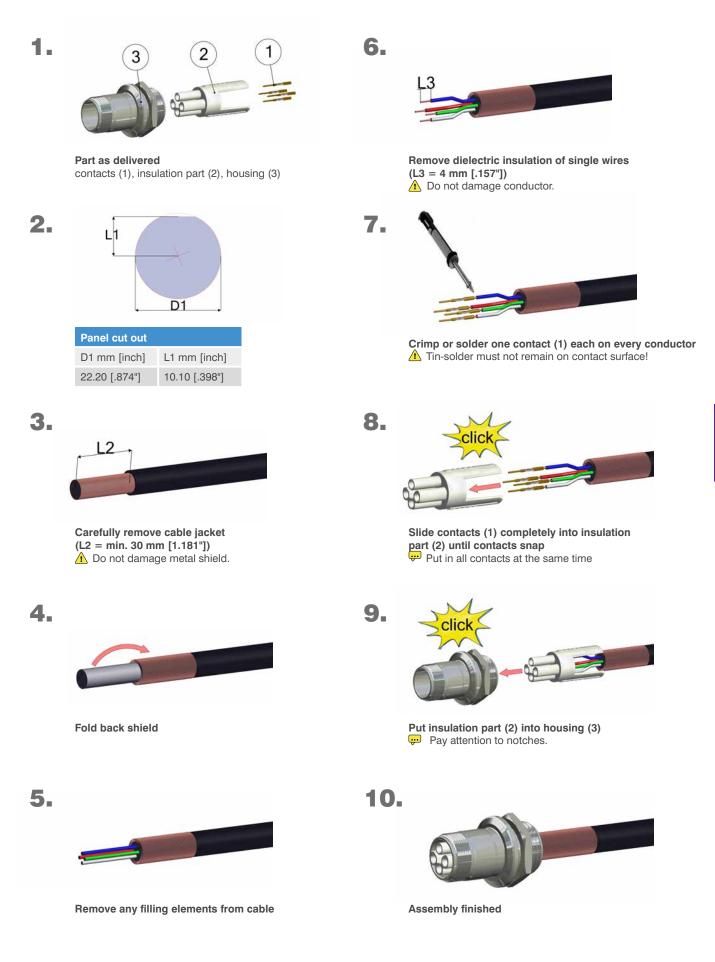
drawing - dimensions in mm [inch]



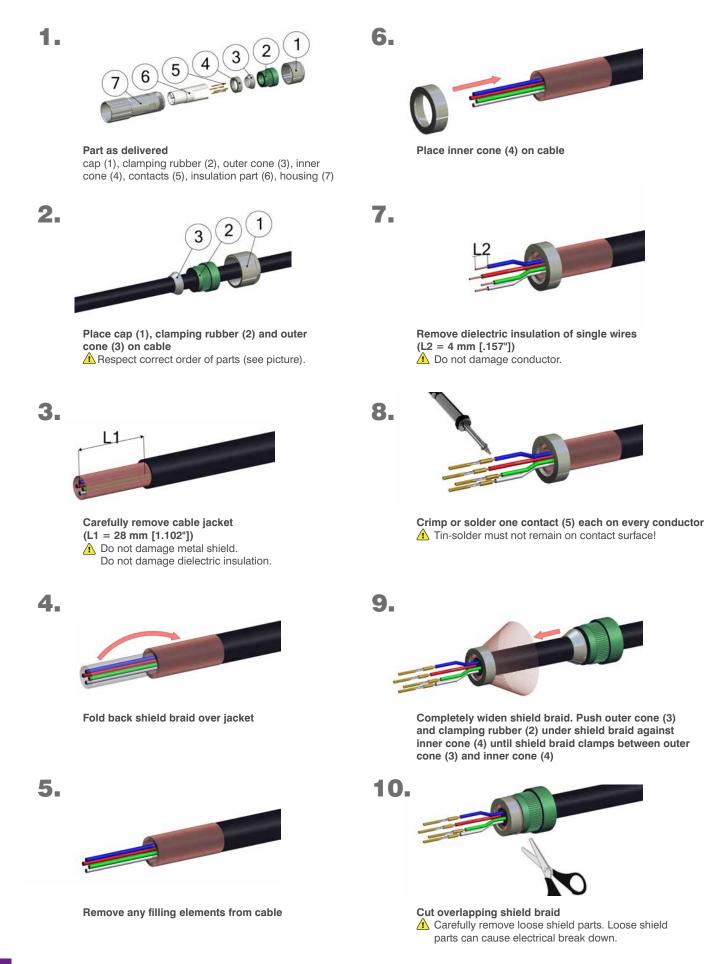
Ejector tool / Crimping tool

Part no.Description3000016Extracting tool for 0.7 mm crimping contacts3000024Crimping tool fro 0.7 mm crimping contacts incl. pliers, contact holder and crimping cheeks

Assembly instructions (GB/GS)







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Slide contacts (5) completely into insulation part (6) until contacts snap

Insert all contacts at the same time. Pull gently to check that contacts are correctly located and remain in position.



Put on cap

Wrench size	Wrench size	Tightening
cap	housing	torque [Nm]
20	19	5



Slide insulation part (6) into housing (7) until insulation part snap in
 ▲ Use notches for correct position of insulation part.



Assembly finished



Note – important!

- 1. Please carefully read assembly instructions before cable assembly.
- 2. Cable assembly must only be done by trained and qualified personnel.

Suitable cables for Series MCS



	Part No. 3330082	Part No. 3330084	Part No. 3330086
Operating voltage DC		5 kVDC	
Test voltage DC		7.5 kVDC	
Number of wires	2	4	6
Construction	2 wires stranded	4 wires stranded	6 wires stranded
Conductor			
AWG		AWG 26	
Strands		7 x 0.16 mm	
Cross section		0.14 mm ²	
Conductor diameter		0.42 mm	
Conductor material		tinned copper	
Dielectric			
Diameter		1.6 mm [.063"] (± 0.1 mm)	
Material		FEP	
Encoding	grey, black	grey, black, blue, green	grey, black, blue, green, yellow, brown
Screen (Shield)		YES	
Coverage		about 85 %	
Material		tinned copper	
Jacket			
Diameter	6.2 mm [.244"] (± 0.3 mm)	6.9 mm [.272"] (± 0.3 mm)	7.9 mm [.311"] (± 0.3 mm)
Material		Silicone	
Color		red	
Temperature range		-30° C to +180° C	
Fits connector types	MCS205	MCS405	MCS605