

RoHS
Compliant

Plugs



FGG

Receptacles

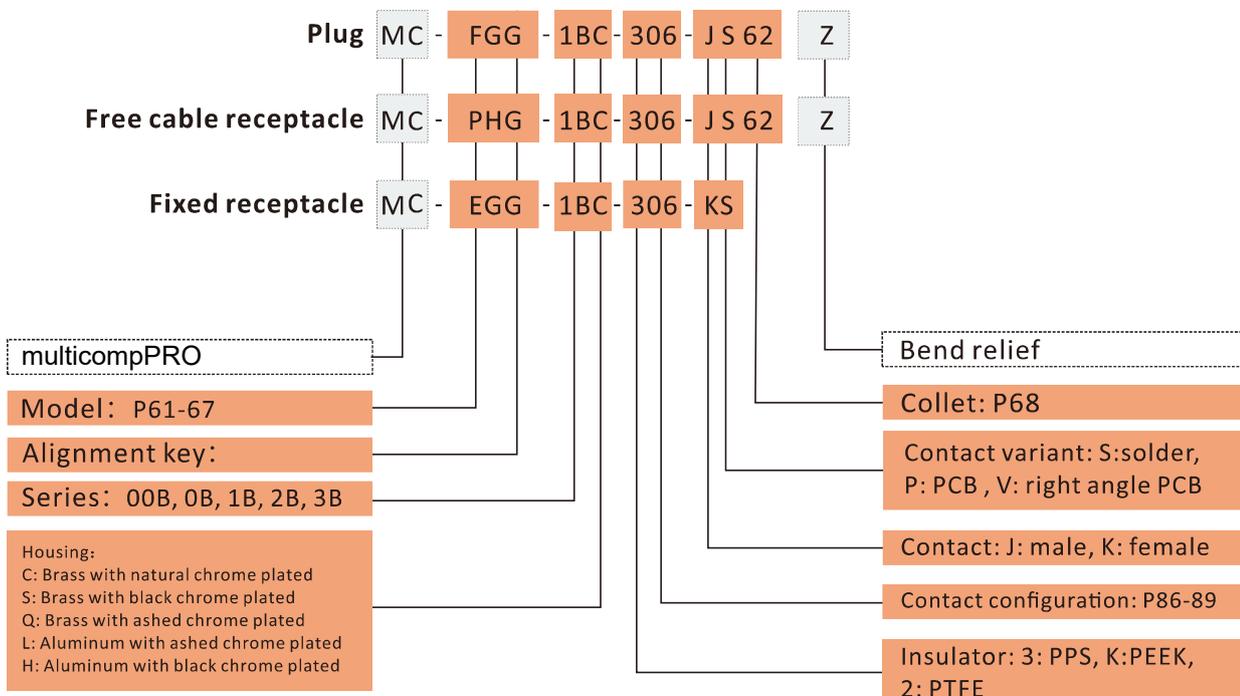


EGG



PHG

Part Numbering System



Part No. Example

Straight plug with cable collet

MC-FGG-1BC-3.6-JS62Z straight plug with key (G) and cable collet, 1B series, multipole 6 contacts, outer shell in natural chrome-plated brass, PPS insulator, male solder contacts, collet for 5.2-6.2mm diameter cable, nut for fitting a bend relief.

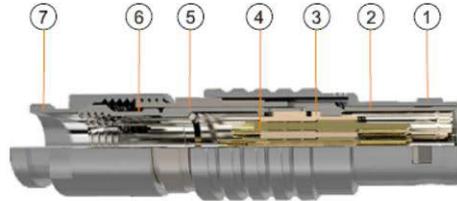
Free cable mount receptacle

MC-PHG-1BC-3.6-KS62 free cable receptacle with key (G) and cable collet, 1B series, multipole 6 contacts, outer shell in natural chrome-plated brass, PPS insulator, female solder contacts, collet for 5.2-6.2mm diameter cable.

Part Section Showing Internal Components

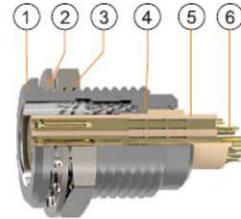
Cable Mount Plug

- ① Outer shell
- ② Latch sleeve
- ③ Insulator
- ④ Male contact
- ⑤ Split insert carrier A/B
- ⑥ Cable collet
- ⑦ Collet nut



Fixed Receptacle

- ① Outer shell
- ② Retaining ring
- ③ Hexagonal nut
- ④ Locking washer
- ⑤ Insulator
- ⑥ Female contacts



Technical Characteristics

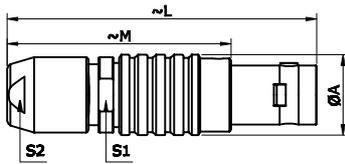
Mechanical and Climatical

Characteristics	Value	Standard
Endurance	>5000cycles	IEC60512-5test9a
Humidity	Up to 95% at 60°C	
Temperature	-55°C, +250°C	
Resistance to vibration	10-2000Hz, 15g	IEC 60512-4 test 6d
Shock resistance	100g, 6ms	IEC 60512-4 test 6c
Salt spray corrosion test	>96hrs	IEC 60512-6 test 11f
Protection index (mated)	IP50	IEC 60529
Climatical category	55/175/21	IEC 60068-1

Electrical

Characteristics	Value	Standard
Shielding efficiency	at 10MHZ	>75dB
	at 1GHZ	>40dB

MC-FGG Cable Mount Straight Plug

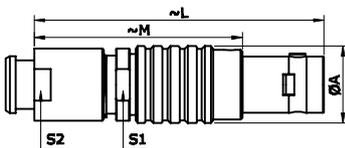


Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
MC-FGG	00	6.4	28.5	20.5	5.5	5
	0B	9.5	36	26	8	7
	1B	12	43	32	10	9
	2B	15	50	38	13	12
	3B	18	58	43	15	14

Part Number Table

Description	Part Number
Straight Plug, Male, 2 Pin, Solder, Brass, Cable OD 3.5mm, Cable Mount	MC-FGG-00BC-302-JS35
Straight Plug, Male, 3 Pin, Solder, Brass, Cable OD 3.5mm, Cable Mount	MC-FGG-00BC-303-JS35
Straight Plug, Male, 4 Pin, Solder, Brass, Cable OD 3.5mm, Cable Mount	MC-FGG-00BC-304-JS35

MC-FGG Cable Mount Straight Plug, Nut for Fitting a Bend Relief

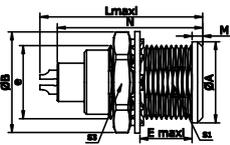


Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
MC-FGG	00	6.4	28.5	20	5.5	6
	0B	9.5	36	25	8	8
	1B	12	42	31	10	9
	2B	15	49	37	13	12
	3B	18	58.5	43.5	15	15

Part Number Table

Description	Part Number
Straight Plug, Male, 2 Pin, Solder w/ Strain Relief, Brass, Cable OD 4.2mm, Cable Mount	MC-FGG-0BC-302-JS42Z
Straight Plug, Male, 3 Pin, Solder w/ Strain Relief, Brass, Cable OD 4.2mm, Cable Mount	MC-FGG-0BC-303-JS42Z
Straight Plug, Male, 4 Pin, Solder w/ Strain Relief, Brass, Cable OD 4.2mm, Cable Mount	MC-FGG-0BC-304-JS42Z
Straight Plug, Male, 5 Pin, Solder w/ Strain Relief, Brass, Cable OD 4.2mm, Cable Mount	MC-FGG-0BC-305-JS42Z
Straight Plug, Male, 6 Pin, Solder w/ Strain Relief, Brass, Cable OD 5.2mm, Cable Mount	MC-FGG-0BC-306-JS52Z
Straight Plug, Male, 7 Pin, Solder w/ Strain Relief, Brass, Cable OD 5.2mm, Cable Mount	MC-FGG-0BC-307-JS52Z
Straight Plug, Male, 9 Pin, Solder w/ Strain Relief, Brass, Cable OD 5.2mm, Cable Mount	MC-FGG-0BC-309-JS52Z
Straight Plug, Male, 2 Pin, Solder w/ Strain Relief, Brass, Cable OD 5.2mm, Cable Mount	MC-FGG-1BC-302-JS52Z
Straight Plug, Male, 3 Pin, Solder w/ Strain Relief, Brass, Cable OD 5.2mm, Cable Mount	MC-FGG-1BC-303-JS52Z
Straight Plug, Male, 4 Pin, Solder w/ Strain Relief, Brass, Cable OD 5.2mm, Cable Mount	MC-FGG-1BC-304-JS52Z
Straight Plug, Male, 5 Pin, Solder w/ Strain Relief, Brass, Cable OD 5.2mm, Cable Mount	MC-FGG-1BC-305-JS52Z
Straight Plug, Male, 6 Pin, Solder w/ Strain Relief, Brass, Cable OD 6.2mm, Cable Mount	MC-FGG-1BC-306-JS62Z
Straight Plug, Male, 7 Pin, Solder w/ Strain Relief, Brass, Cable OD 6.2mm, Cable Mount	MC-FGG-1BC-307-JS62Z
Straight Plug, Male, 8 Pin, Solder w/ Strain Relief, Brass, Cable OD 6.2mm, Cable Mount	MC-FGG-1BC-308-JS62Z
Straight Plug, Male, 10 Pin, Solder w/ Strain Relief, Brass, Cable OD 7.2mm, Cable Mount	MC-FGG-1BC-310-JS72Z
Straight Plug, Male, 14 Pin, Solder w/ Strain Relief, Brass, Cable OD 7.2mm, Cable Mount	MC-FGG-1BC-314-JS72Z
Straight Plug, Male, 16 Pin, Solder w/ Strain Relief, Brass, Cable OD 7.2mm, Cable Mount	MC-FGG-1BC-316-JS72Z
Straight Plug, Male, 2 Pin, Solder w/ Strain Relief, Brass, Cable OD 7.2mm, Cable Mount	MC-FGG-2BC-302-JS72Z
Straight Plug, Male, 3 Pin, Solder w/ Strain Relief, Brass, Cable OD 7.2mm, Cable Mount	MC-FGG-2BC-303-JS72Z
Straight Plug, Male, 4 Pin, Solder w/ Strain Relief, Brass, Cable OD 7.2mm, Cable Mount	MC-FGG-2BC-304-JS72Z
Straight Plug, Male, 5 Pin, Solder w/ Strain Relief, Brass, Cable OD 7.2mm, Cable Mount	MC-FGG-2BC-305-JS72Z
Straight Plug, Male, 6 Pin, Solder w/ Strain Relief, Brass, Cable OD 9.2mm, Cable Mount	MC-FGG-2BC-306-JS92Z
Straight Plug, Male, 7 Pin, Solder w/ Strain Relief, Brass, Cable OD 9.2mm, Cable Mount	MC-FGG-2BC-307-JS92Z
Straight Plug, Male, 8 Pin, Solder w/ Strain Relief, Brass, Cable OD 9.2mm, Cable Mount	MC-FGG-2BC-308-JS92Z
Straight Plug, Male, 10 Pin, Solder w/ Strain Relief, Brass, Cable OD 9.2mm, Cable Mount	MC-FGG-2BC-310-JS92Z
Straight Plug, Male, 12 Pin, Solder w/ Strain Relief, Brass, Cable OD 9.2mm, Cable Mount	MC-FGG-2BC-312-JS92Z
Straight Plug, Male, 14 Pin, Solder w/ Strain Relief, Brass, Cable OD 9.2mm, Cable Mount	MC-FGG-2BC-314-JS92Z
Straight Plug, Male, 16 Pin, Solder w/ Strain Relief, Brass, Cable OD 9.2mm, Cable Mount	MC-FGG-2BC-316-JS92Z
Straight Plug, Male, 18 Pin, Solder w/ Strain Relief, Brass, Cable OD 9.2mm, Cable Mount	MC-FGG-2BC-318-JS92Z
Straight Plug, Male, 19 Pin, Solder w/ Strain Relief, Brass, Cable OD 9.2mm, Cable Mount	MC-FGG-2BC-319-JS92Z

MC-EGG Panel Mount Fixed Receptacle



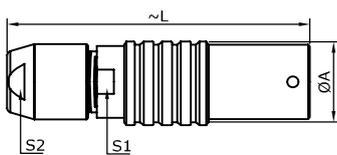
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
MC-EGG	00B	8	10.2	M7 × 0.5	6	15.5	1	13.7	6.3	9
	0B	10	12.4	M9 × 0.6	7	20.7	1.2	19.1	8.2	11
	1B	14	15.8	M12 × 1	7.5	23	1.5	21.1	10.5	14
	2B	18	19.2	M15 × 1	8.5	26.7	1.8	24.6	13.5	17
	3B	21.8	25	M18 × 1	11.5	37.1	2	24.6	16.5	22

Part Number Table

Description	Part Number
Fixed Receptacle, Female, 2 Pin, Solder, Brass, Panel Mount	MC-EGG-00BC-302-KS
Fixed Receptacle, Female, 3 Pin, Solder, Brass, Panel Mount	MC-EGG-00BC-303-KS
Fixed Receptacle, Female, 4 Pin, Solder, Brass, Panel Mount	MC-EGG-00BC-304-KS
Fixed Receptacle, Female, 2 Pin, Solder, Brass, Panel Mount	MC-EGG-0BC-302-KS
Fixed Receptacle, Female, 3 Pin, Solder, Brass, Panel Mount	MC-EGG-0BC-303-KS
Fixed Receptacle, Female, 4 Pin, Solder, Brass, Panel Mount	MC-EGG-0BC-304-KS
Fixed Receptacle, Female, 5 Pin, Solder, Brass, Panel Mount	MC-EGG-0BC-305-KS
Fixed Receptacle, Female, 6 Pin, Solder, Brass, Panel Mount	MC-EGG-0BC-306-KS
Fixed Receptacle, Female, 7 Pin, Solder, Brass, Panel Mount	MC-EGG-0BC-307-KS
Fixed Receptacle, Female, 9 Pin, Solder, Brass, Panel Mount	MC-EGG-0BC-309-KS
Fixed Receptacle, Female, 2 Pin, Solder, Brass, Panel Mount	MC-EGG-1BC-302-KS
Fixed Receptacle, Female, 3 Pin, Solder, Brass, Panel Mount	MC-EGG-1BC-303-KS
Fixed Receptacle, Female, 4 Pin, Solder, Brass, Panel Mount	MC-EGG-1BC-304-KS
Fixed Receptacle, Female, 5 Pin, Solder, Brass, Panel Mount	MC-EGG-1BC-305-KS
Fixed Receptacle, Female, 6 Pin, Solder, Brass, Panel Mount	MC-EGG-1BC-306-KS
Fixed Receptacle, Female, 7 Pin, Solder, Brass, Panel Mount	MC-EGG-1BC-307-KS
Fixed Receptacle, Female, 8 Pin, Solder, Brass, Panel Mount	MC-EGG-1BC-308-KS
Fixed Receptacle, Female, 10 Pin, Solder, Brass, Panel Mount	MC-EGG-1BC-310-KS
Fixed Receptacle, Female, 14 Pin, Solder, Brass, Panel Mount	MC-EGG-1BC-314-KS
Fixed Receptacle, Female, 16 Pin, Solder, Brass, Panel Mount	MC-EGG-1BC-316-KS
Fixed Receptacle, Female, 2 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-302-KS
Fixed Receptacle, Female, 3 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-303-KS

Description	Part Number
Fixed Receptacle, Female, 4 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-304-KS
Fixed Receptacle, Female, 5 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-305-KS
Fixed Receptacle, Female, 6 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-306-KS
Fixed Receptacle, Female, 7 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-307-KS
Fixed Receptacle, Female, 8 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-308-KS
Fixed Receptacle, Female, 10 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-310-KS
Fixed Receptacle, Female, 12 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-312-KS
Fixed Receptacle, Female, 14 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-314-KS
Fixed Receptacle, Female, 16 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-316-KS
Fixed Receptacle, Female, 18 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-318-KS
Fixed Receptacle, Female, 19 Pin, Solder, Brass, Panel Mount	MC-EGG-2BC-319-KS

MC-PHG Cable Mount Receptacle

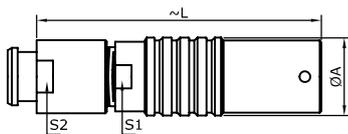


Reference		Dimensions(mm)			
Model	Series	A	L	S1	S2
MC-PHG	0B	9.5	35.5	8	7
	1B	12.5	40.5	10	9
	2B	16.5	47	13	12
	3B	19	56	15	14

Part Number Table

Description	Part Number
Free Receptacle, Female, 2 Pin, Solder, Cable OD 3.5mm, Cable Mount	MC-PHG-00BC-302-KS35
Free Receptacle, Female, 3 Pin, Solder, Cable OD 3.5mm, Cable Mount	MC-PHG-00BC-303-KS35
Free Receptacle, Female, 4 Pin, Solder, Cable OD 3.5mm, Cable Mount	MC-PHG-00BC-304-KS35

MC-PHG Cable Mount Receptacle, Nut for Fitting a Bend Relief



Reference		Dimensions(mm)			
Model	Series	A	L	S1	S2
MC-PHG	0B	9.5	35.5	8	8
	1B	12.5	40.5	10	9
	2B	16.5	47	13	12
	3B	19	56	15	14

Part Number Table

Description	Part Number
Free Recepticle, Female, 2 Pin, Solder w/ Strain Relief, Cable OD 4.2mm, Cable Mount	MC-PHG-0BC-302-KS42Z
Free Recepticle, Female, 3 Pin, Solder w/ Strain Relief, Cable OD 4.2mm, Cable Mount	MC-PHG-0BC-303-KS42Z
Free Recepticle, Female, 4 Pin, Solder w/ Strain Relief, Cable OD 4.2mm, Cable Mount	MC-PHG-0BC-304-KS42Z
Free Recepticle, Female, 5 Pin, Solder w/ Strain Relief, Cable OD 4.2mm, Cable Mount	MC-PHG-0BC-305-KS42Z
Free Recepticle, Female, 6 Pin, Solder w/ Strain Relief, Cable OD 5.2mm, Cable Mount	MC-PHG-0BC-306-KS52Z
Free Recepticle, Female, 7 Pin, Solder w/ Strain Relief, Cable OD 5.2mm, Cable Mount	MC-PHG-0BC-307-KS52Z
Free Recepticle, Female, 9 Pin, Solder w/ Strain Relief, Cable OD 5.2mm, Cable Mount	MC-PHG-0BC-309-KS52Z
Free Recepticle, Female, 2 Pin, Solder w/ Strain Relief, Cable OD 5.2mm, Cable Mount	MC-PHG-1BC-302-KS52Z
Free Recepticle, Female, 3 Pin, Solder w/ Strain Relief, Cable OD 5.2mm, Cable Mount	MC-PHG-1BC-303-KS52Z
Free Recepticle, Female, 4 Pin, Solder w/ Strain Relief, Cable OD 5.2mm, Cable Mount	MC-PHG-1BC-304-KS52Z
Free Recepticle, Female, 5 Pin, Solder w/ Strain Relief, Cable OD 5.2mm, Cable Mount	MC-PHG-1BC-305-KS52Z
Free Recepticle, Female, 6 Pin, Solder w/ Strain Relief, Cable OD 6.2mm, Cable Mount	MC-PHG-1BC-306-KS62Z
Free Recepticle, Female, 7 Pin, Solder w/ Strain Relief, Cable OD 6.2mm, Cable Mount	MC-PHG-1BC-307-KS62Z
Free Recepticle, Female, 8 Pin, Solder w/ Strain Relief, Cable OD 6.2mm, Cable Mount	MC-PHG-1BC-308-KS62Z
Free Recepticle, Female, 10 Pin, Solder w/ Strain Relief, Cable OD 7.2mm, Cable Mount	MC-PHG-1BC-310-KS72Z
Free Recepticle, Female, 14 Pin, Solder w/ Strain Relief, Cable OD 7.2mm, Cable Mount	MC-PHG-1BC-314-KS72Z
Free Recepticle, Female, 16 Pin, Solder w/ Strain Relief, Cable OD 7.2mm, Cable Mount	MC-PHG-1BC-316-KS72Z
Free Recepticle, Female, 2 Pin, Solder w/ Strain Relief, Cable OD 7.2mm, Cable Mount	MC-PHG-2BC-302-KS72Z
Free Recepticle, Female, 3 Pin, Solder w/ Strain Relief, Cable OD 7.2mm, Cable Mount	MC-PHG-2BC-303-KS72Z
Free Recepticle, Female, 4 Pin, Solder w/ Strain Relief, Cable OD 7.2mm, Cable Mount	MC-PHG-2BC-304-KS72Z
Free Recepticle, Female, 5 Pin, Solder w/ Strain Relief, Cable OD 7.2mm, Cable Mount	MC-PHG-2BC-305-KS72Z
Free Recepticle, Female, 6 Pin, Solder w/ Strain Relief, Cable OD 9.2mm, Cable Mount	MC-PHG-2BC-306-KS92Z
Free Recepticle, Female, 7 Pin, Solder w/ Strain Relief, Cable OD 9.2mm, Cable Mount	MC-PHG-2BC-307-KS92Z
Free Recepticle, Female, 8 Pin, Solder w/ Strain Relief, Cable OD 9.2mm, Cable Mount	MC-PHG-2BC-308-KS92Z

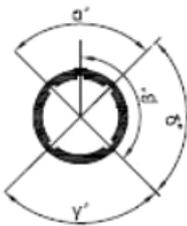
Description	Part Number
Free Recepticle, Female, 10 Pin, Solder w/ Strain Relief, Cable OD 9.2mm, Cable Mount	MC-PHG-2BC-310-KS92Z
Free Recepticle, Female, 12 Pin, Solder w/ Strain Relief, Cable OD 9.2mm, Cable Mount	MC-PHG-2BC-312-KS92Z
Free Recepticle, Female, 14 Pin, Solder w/ Strain Relief, Cable OD 9.2mm, Cable Mount	MC-PHG-2BC-314-KS92Z
Free Recepticle, Female, 16 Pin, Solder w/ Strain Relief, Cable OD 9.2mm, Cable Mount	MC-PHG-2BC-316-KS92Z
Free Recepticle, Female, 18 Pin, Solder w/ Strain Relief, Cable OD 9.2mm, Cable Mount	MC-PHG-2BC-318-KS92Z
Free Recepticle, Female, 19 Pin, Solder w/ Strain Relief, Cable OD 9.2mm, Cable Mount	MC-PHG-2BC-319-KS92Z

Alignment key and Polarized Keys (MC-B series)

MC-B series connector model type are composed of five letters.

The last letter indicates the key position and the contact type (male or female).

Front view of receptacle



Code	Keys No.	Angles	Series			Code	Keys No.	Angles	Series		Contact Type		
			00	0B	1B				2B	3B	Plug	Receptacle	
G	1		0°	0°	0°	G	1		0°	0°	Male	Female	
A	2	α	30°	30°	30°	A	2	α	30°	30°	Male	Female	
B	2		60°	60°	60°	B	2		45°	45°	Male	Female	
C	2		-	90°	90°	C	2		60°	60°	Male	Female	
D	2	β	-	135°	135°	D	2	γ	95°	95°	Male	Female	
E	2		-	145°	145°	E	2		β	120°	120°	Male	Female
F	2		-	155°	155°	F	2			145°	145°	Male	Female
J	2	γ	45°	45°	45°	J	2	α	37.5°	37.5°	Female	Male	
K	2		-	70°	70°	K	2		52.5°	52.5°	Female	Male	
L	2		-	80°	80°	L	2		γ	70°	70°	Female	Male
M	2	δ	-	110°	-	M	2	δ	-	-	Female	Male	

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