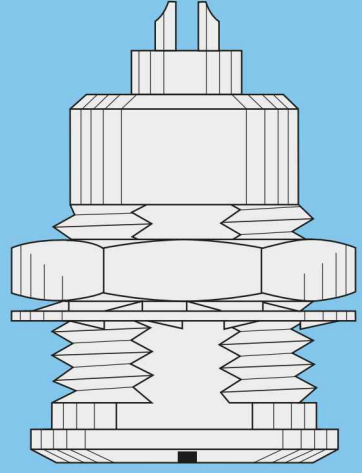


B SERIES

B Series

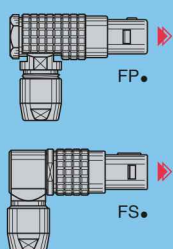
B series connectors provide the following main features:

- security of the Push-Pull self-latching system
- solder, crimp or print contacts (straight or elbow)
- multiple key options to avoid cross mating of similar connectors
- 360° screening for full EMC shielding.
- multipole types 2 to 64 contacts
- high packing density for space savings
- keying system («G» key standard) for connector alignment

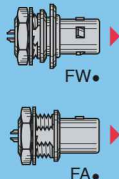
B series (standard models)

Standard models (page 13)

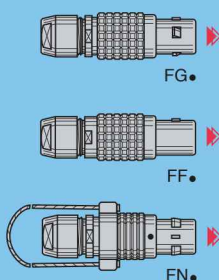
Elbow plugs



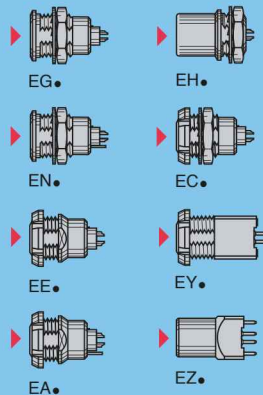
Fixed plugs



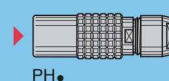
Straight plugs



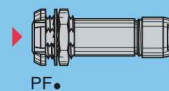
Sockets



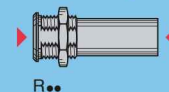
Free cable socket



Fixed cable socket

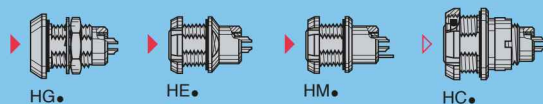


Fixed coupler

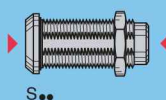


Watertight or vacuumtight models (page 22)

Sockets

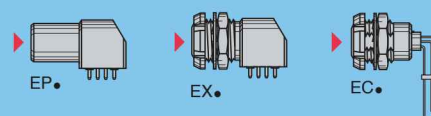


Fixed coupler



Elbow socket models (page 25)

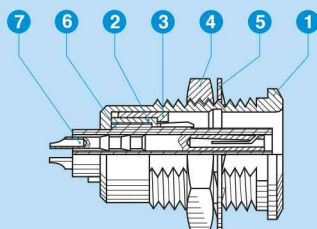
Elbow sockets



Part section showing internal components

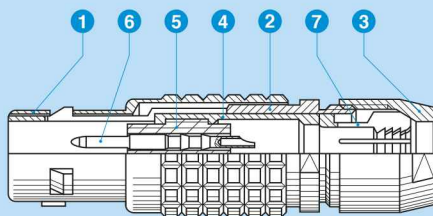
Fixed socket

- 1 outer shell
- 2 earthing crown
- 3 retaining ring
- 4 hexagonal nut
- 5 locking washer
- 6 insulator
- 7 female contact



Straight plug

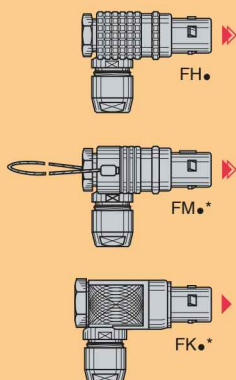
- 1 outer shell
- 2 latch sleeve
- 3 collet nut
- 4 split insert carrier
- 5 insulator
- 6 male contact
- 7 collet



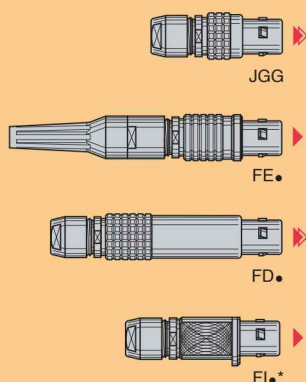
B series (special models)

Special models (page 28)

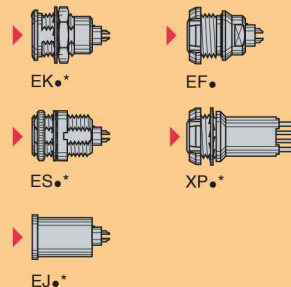
Elbow plugs



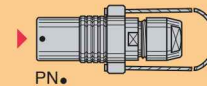
Straight plugs



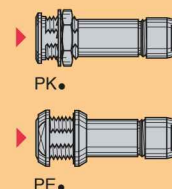
Sockets



Free cable socket

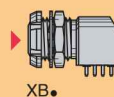


Fixed cable sockets



Elbow socket model (page 33)

Elbow socket

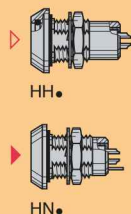


Watertight or vacuumtight models (page 31)

Fixed plug

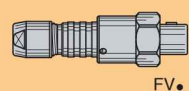


Sockets



Threaded-latching models (page 34)

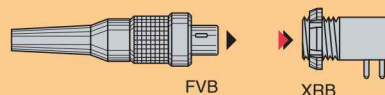
Straight plugs



Socket

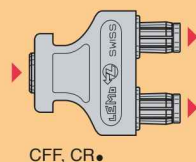


Elbow socket



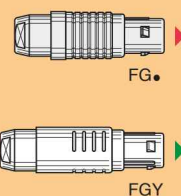
Bridge models (page 35)

Bridge plugs



Plastic housing models (page 36)

Straight plugs



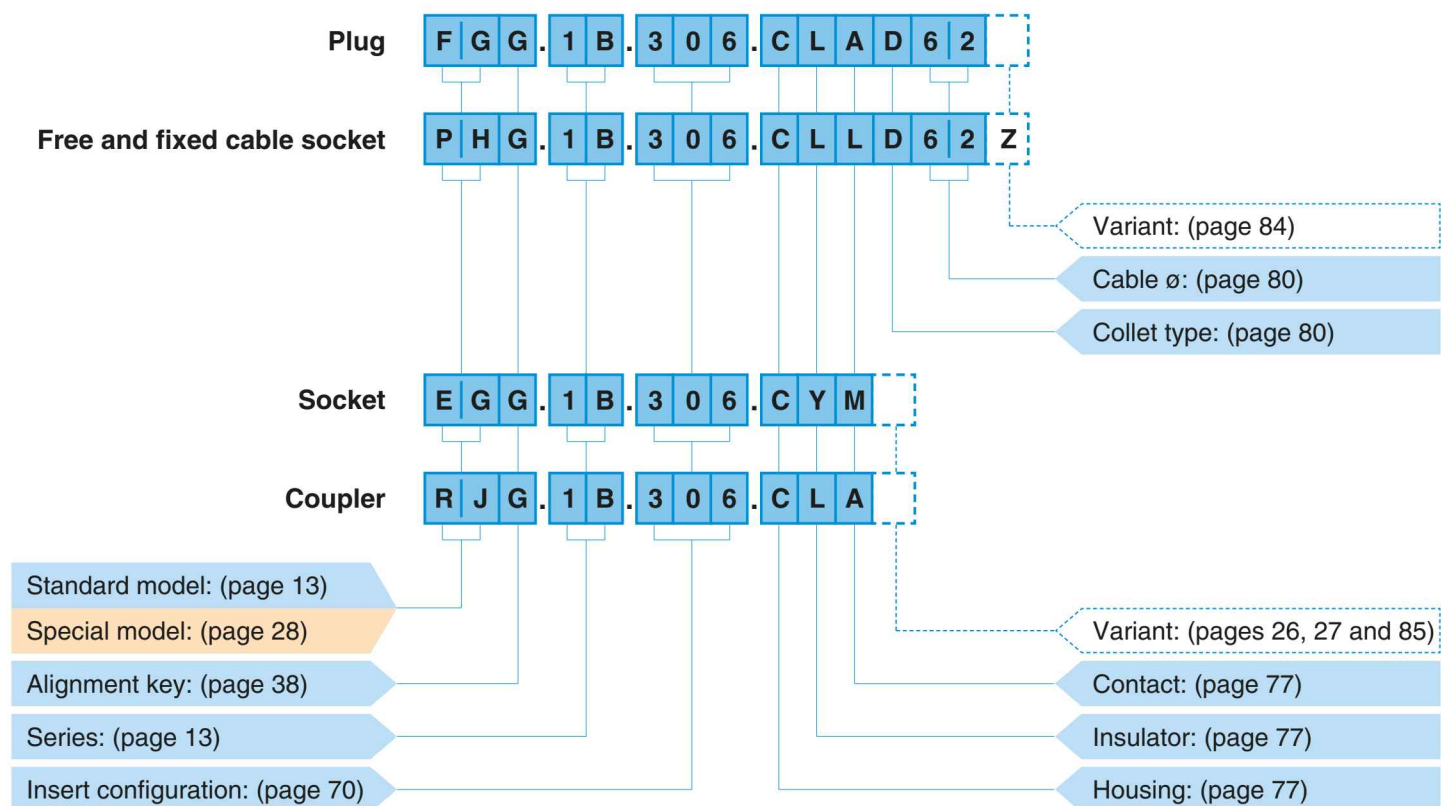
Sockets



Note: * Check product finder LEMO.COM for details.

Part numbering system

Standard models part numbering system

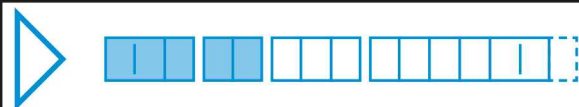


FGG.1B.306.CLAD62 = straight plug with key (G) and cable collet, 1B series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, D type collet for 6.0 mm diameter cable.

PHG.1B.306.CLLD62Z = free cable socket with key (G) and cable collet, 1B series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, female solder contacts, D type collet for 6.0 mm diameter cable and nut for fitting a bend relief.

EGG.1B.306.CYM = socket, nut fixing, with key (G), 1B series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK extended insulator, female crimp contacts.

RJG.1B.306.CLA = straight fixed coupler with keys (J) at the flange end and key (G) at the other end, 1B series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, male-female contacts.



Standard models

Technical characteristics

Mechanical and environmental

Characteristics	Value	Standard
Endurance ¹⁾	> 5000 cycles	IEC 60512-5 test 9a
Humidity	up to 95% at 60°C	
Temperature range ³⁾	- 55°C, + 250°C	
Resistance to vibrations	10-2000 Hz, 15g	IEC 60068-2-6 test Fc
Shock resistance	100 g, 6 ms	IEC 60068-2-27 test Ea
Salt spray corrosion test ²⁾	> 1000h	IEC 60068-2-11 test Ka
Protection index (mated)	IP50	IEC 60529
Climatical category	55/175/21	IEC 60068-1

Electrical

Characteristics		Value	Standard
Shielding efficiency	at 10 MHz	> 75 dB	IEC 60169-1-3 test 9a
	at 1 GHz	> 40 dB	IEC 60169-1-3 test 9a

Note:

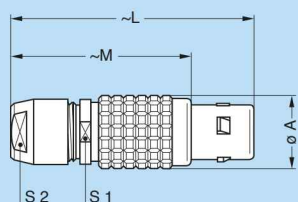
the various tests have been carried out with FGG and EGG connector pairs, with chrome-plated brass shell and PEEK insulator. Detailed electrical characteristics, as well as materials and treatment are presented in the chapter Technical characteristics on page 130.

¹⁾ see page 133, contact resistance after mating cycles. See page 131, mechanical endurance latching force.

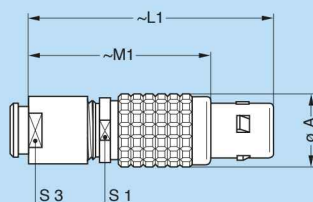
²⁾ for chrome plated product («C» material code).

³⁾ maximum temperature valid for short periods of use.

FG● Straight plug, key (G or A to K), cable collet



Cable collet and nut for fitting a bend relief ²⁾



Reference		Dimensions (mm)							
Model	Series	A	L	L1	M	M1	S1	S2	S3
FG●	00 ¹⁾	6.4	28.5	28.7	20.5	20.7	5.5	5	6
FG●	0B	9.5	36.0	35.0	26.0	25.0	8.0	7	7
FG●	1B	12.0	43.0	42.0	32.0	31.0	10.0	9	9
FG●	XB	13.0	44.0	47.5	33.5	37.0	11.0	10	10
FG●	2B	15.0	50.0	49.0	38.0	37.0	13.0	12	12
FG●	3B	18.0	58.0	56.5	43.0	41.5	15.0	14	15
FG●	4B	25.0	75.0	71.0	57.0	53.0	21.0	20	20
FG●	5B	35.0	103.0	110.3	78.0	85.3	31.0	30	28

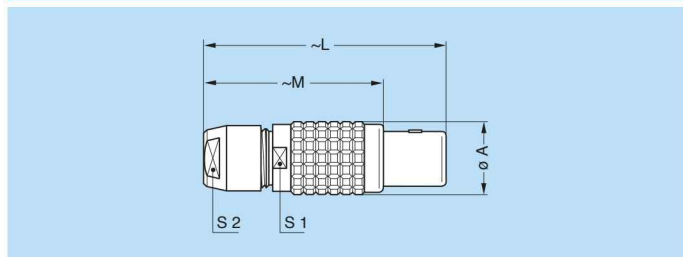
M1 Cable assembly (page 124)

Note: ¹⁾ the surface design of the 00 series is different.

● Standard ● Special

Note: ²⁾ to order, add a «Z» at the end of the reference. The bend relief must be ordered separately (see page 105).

FF● Straight plug, non-latching, key (G or A or J), cable collet

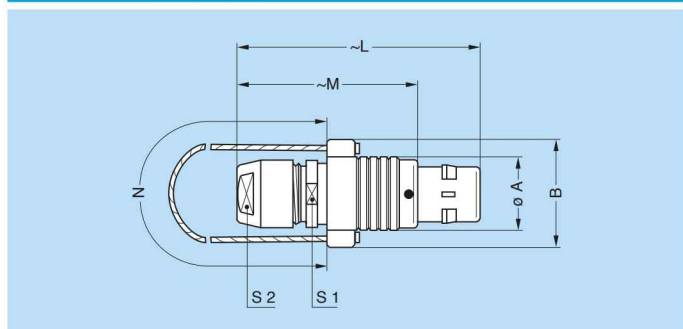


Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
FF●	0B	9.5	36	26	8	7
FF●	1B	12.0	43	32	10	9
FF●	2B	15.0	50	38	13	12
FF●	3B	18.0	58	43	15	14
FF●	4B	25.0	75	57	21	20

M1 Cable assembly (page 124)

● Standard ● Special

FN● Straight plug, key (G or A or J), cable collet and lanyard release



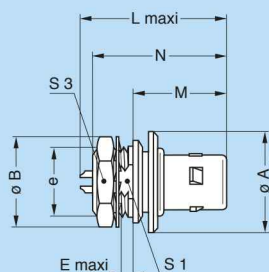
Reference		Dimensions (mm)						
Model	Series	A	B	L	M	N	S1	S2
FN●	0B	9.5	15.5	36.0	26.0	140	8	7
FN●	1B	12.0	18.0	43.0	32.0	140	10	9
FN●	2B	15.0	21.0	49.0	37.0	160	13	12
FN●	3B	18.0	25.0	58.0	43.0	190	15	14
FN●	4B	25.0	32.0	75.0	57.0	230	21	20
FN●	5B	35.0	42.0	103.0	78.0	300	31	30

M1 Cable assembly (page 124)

Note: cable material: stainless steel with Polyamide sheath.

● Standard ● Special

FW● Fixed plug, nut fixing, key (G or A to K)

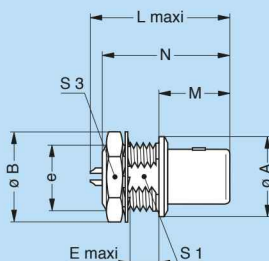


Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N ¹⁾	S1	S3
FW●	0B	14.0	12.4	M9x0.6	1.8	25.6	14.5	19.5	8.2	11
FW●	1B	18.0	15.8	M12x1.0	2.9	28.5	17.0	24.8	10.5	14
FW●	2B	19.5	19.2	M15x1.0	4.1	33.6	18.0	27.3	13.5	17
FW●	3B	25.0	25.0	M18x1.0	4.2	38.2	23.0	31.5	16.5	22

P5 Panel cut-out (page 117)

Note: ¹⁾ maximum length with crimp contacts

FA● Fixed plug, non-latching, nut fixing, key (G or A to K)



Reference		Dimensions (mm)								
Model	Series	A	B ¹⁾	e	E	L	M	N ²⁾	S1	S3
FA●	00	8	10.2	M7x0.5	2.9	18.1	9.0	15.0	6.3	9
FA●	0B	10	12.4	M9x0.6	4.2	20.8	11.5	18.9	8.2	11
FA●	1B	14	15.8	M12x1.0	5.4	25.2	12.5	21.6	10.5	14
FA●	2B	18	19.2	M15x1.0	6.0	28.7	13.8	23.9	13.5	17
FA●	3B	22	25.0	M18x1.0	5.8	32.1	17.0	30.2	16.5	22
FA●	4B	29	34.0	M25x1.0	6.8	37.1	20.5	34.7	23.5	30
FA●	5B	40	40.0	M35x1.0	6.8	47.1	28.0	42.8	33.5	—

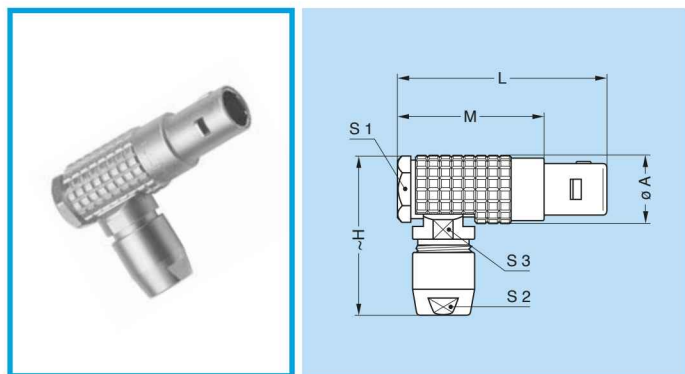
P1 Panel cut-out (page 117)

Note:

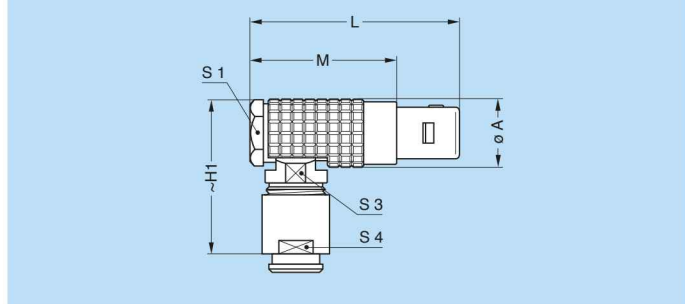
¹⁾ the 5B series is delivered without locking washer or tapered washer and with a round nut.
²⁾ maximum length with crimp contacts.

● Standard ● Special

FP● Elbow (90°) plug, key (G or A to K), cable collet



Cable collet and nut for fitting a bend relief ¹⁾

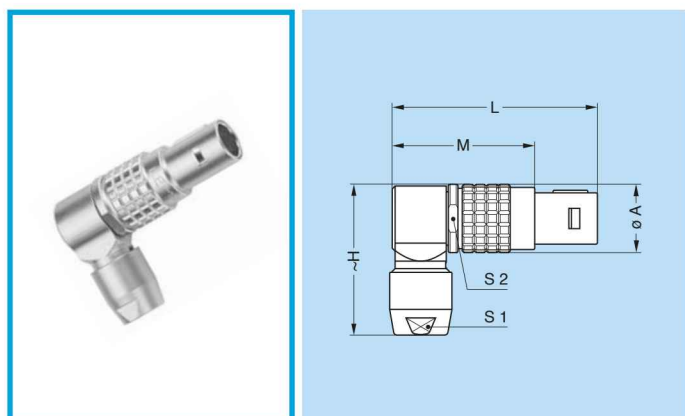


Reference		Dimensions (mm)								
Model	Series	A	H	H1	L	M	S1	S2	S3	S4
FP●	00	7.5	18	17.5	24.5	16.5	6.5	5	5.5	6
FP●	0B	9.5	23	22.0	30.0	20.0	8.0	7	8.0	7
FP●	1B	12.0	29	27.7	36.0	25.0	11.0	9	10.0	9
FP●	2B	15.0	35	34.0	41.5	29.5	13.5	12	13.0	12

M3 Cable assembly (page 124)

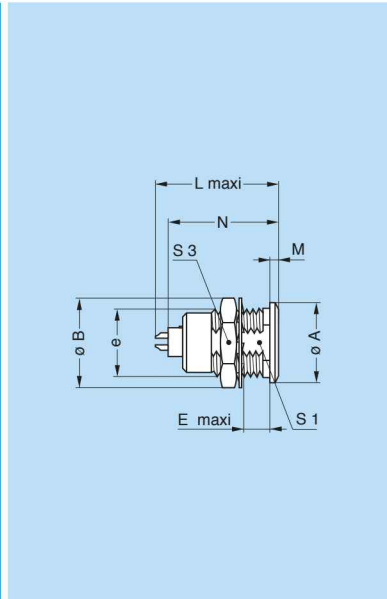
Note: ¹⁾ to order, add a «Z» at the end of the reference.
The bend relief must be ordered separately (see page 105).

FS● Anglissimo right angle plug, key (G or A to K), cable collet



Reference		Dimensions (mm)					
Model	Series	A	H	L	M	S1	S2
FS●	00	8.0	18.1	24.8	16.8	5	7
FS●	0B	10.0	22.4	30.3	20.3	7	9
FS●	1B	12.0	26.4	36.5	25.5	9	11
FS●	2B	16.5	34.5	44.0	32.0	12	15
FS●	3B	20.0	39.2	52.4	37.4	14	19

M5 Cable assembly (page 125)

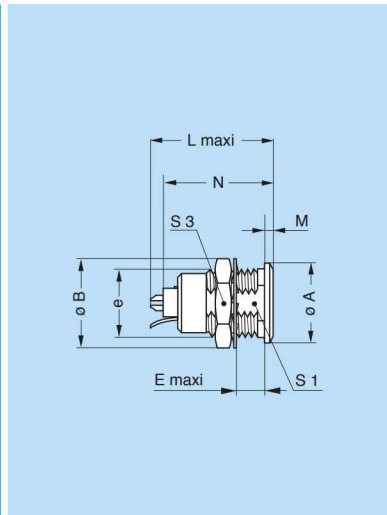
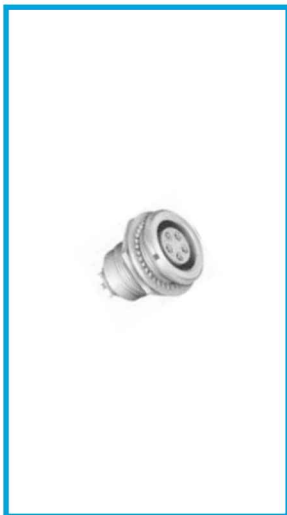
**EG● Socket, nut fixing, key (G or A to K)**

Reference		Dimensions (mm)								
Model	Series	A	B ¹⁾	e	E	L	M	N ²⁾	S1	S3
EG●	00	8	10.2	M7x0.5	6.0	15.5	1.0	13.7	6.3	9
EG●	0B	10	12.4	M9x0.6	7.0	20.7	1.2	19.1	8.2	11
EG●	1B	14	15.8	M12x1.0	7.5	23.0	1.5	21.1	10.5	14
EG●	XB	16	19.0	M14x1.0	7.0	23.5	1.5	20.0	12.5	17
EG●	2B	18	19.2	M15x1.0	8.5	26.7	1.8	24.6	13.5	17
EG●	3B	22	25.0	M18x1.0	11.5	30.7	2.0	28.1	16.5	22
EG●	4B	28	34.0	M25x1.0	12.0	35.7	2.5	34.1	23.5	30
EG●	5B	40	40.0	M35x1.0	11.0	43.5	3.0	39.6	33.5	—

P1 Panel cut-out (page 117)**Note:**

- ¹⁾ the 5B series is delivered with a tapered washer and a round nut.
²⁾ maximum length with crimp contacts.

● Standard ● Special

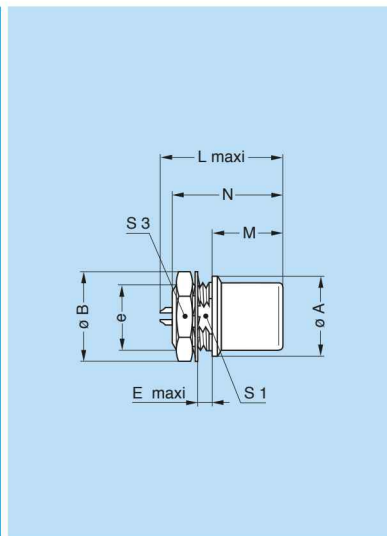
EN● Socket with earthing tag, nut fixing, key (G or A to K)

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N ¹⁾	S1	S3
EN●	00	8	10.2	M7x0.5	6.0	15.5	1.0	13.7	6.3	9
EN●	0B	10	12.4	M9x0.6	7.0	20.7	1.2	19.1	8.2	11
EN●	1B ²⁾	14	15.8	M12x1.0	7.5	23.0	1.5	21.1	10.5	14
EN●	2B	18	19.2	M15x1.0	8.5	26.7	1.8	24.6	13.5	17
EN●	3B	22	25.0	M18x1.0	11.5	30.7	2.0	28.1	16.5	22
EN●	4B	28	34.0	M25x1.0	12.0	35.7	2.5	34.1	23.5	30

P1 Panel cut-out (page 117)**Note:**

- ¹⁾ maximum length with crimp contacts.
²⁾ for the 1B series the earthing tag is on the same side of the key.

● Standard ● Special

EH● Socket, nut fixing, key (G or A to K), and protruding shell

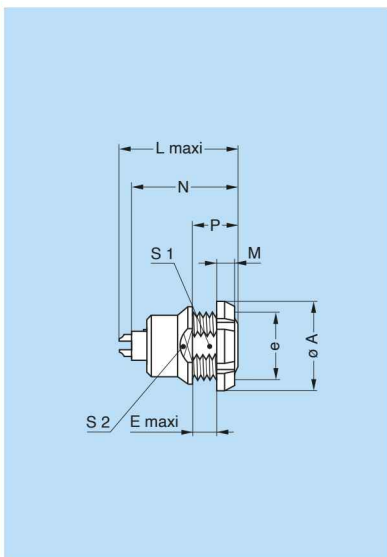
Reference		Dimensions (mm)								
Model	Series	A	B ¹⁾	e	E	L	M	N ²⁾	S1	S3
EH●	00	8	10.2	M7x0.5	2.0	15.5	8.5	13.7	6.3	9
EH●	0B	10	12.4	M9x0.6	2.0	19.5	12.5	19.1	8.2	11
EH●	1B	14	15.8	M12x1.0	4.0	21.7	12.0	21.1	10.5	14
EH●	2B	18	19.2	M15x1.0	5.1	22.7	12.5	24.6	13.5	17
EH●	3B	22	25.0	M18x1.0	7.1	30.7	13.5	30.3	16.5	22
EH●	5B	40	40.0	M35x1.0	2.5	43.5	28.0	38.5	33.5	—

P1 Panel cut-out (page 117)**Note:**

- ¹⁾ the 5B series is delivered without locking washer or tapered washer and with a round nut.
²⁾ maximum length with crimp contacts.

● Standard ● Special

EE● Socket, nut fixing, key (G or A to K) (back panel mounting)



Reference		Dimensions (mm)								
Model	Series	A ¹⁾	e	E	L	M	N ²⁾	P	S1	S2
EE●	00	10	M7x0.5	2.3	15.5	2.5	13.7	6.0	6.3	7.5
EE●	0B	12	M9x0.6	2.4	20.7	2.5	19.1	6.3	8.2	9.0
EE●	1B	16	M12x1.0	6.5	23.0	3.5	21.1	11.0	10.5	13.0
EE●	2B	20	M15x1.0	4.3	26.7	3.5	24.6	9.0	13.5	15.0
EE●	3B	24	M18x1.0	6.1	30.7	4.5	28.1	12.0	16.5	20.0
EE●	4B	30	M25x1.0	10.6	35.7	4.5	34.1	16.5	23.5	26.0
EE●	5B	41	M35x1.0	13.5	43.5	5.0	39.6	19.5	33.5	38.0

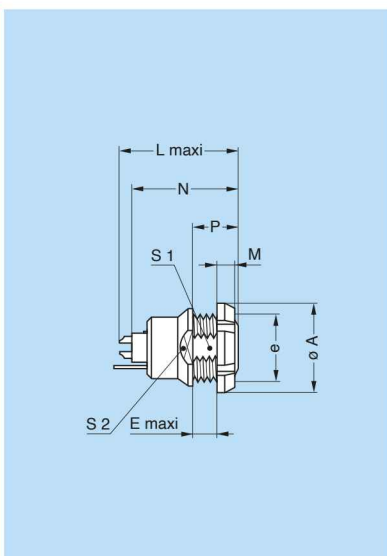
P1 Panel cut-out (page 117)

Note:

- ¹⁾ the 3B, 4B and 5B series are delivered with a conical nut.
²⁾ maximum length with crimp contacts.

● Standard ● Special

EA● Socket with earthing tag, nut fixing, key (G or A to K) (back panel mounting)



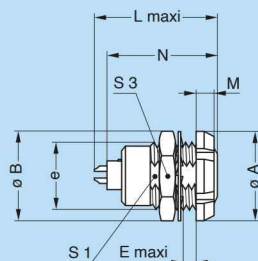
Reference		Dimensions (mm)								
Model	Series	A ¹⁾	e	E	L	M	N ²⁾	P	S1	S2
EA●	00	10	M7x0.5	2.3	15.5	2.5	13.7	6.0	6.3	7.5
EA●	0B	12	M9x0.6	2.4	20.7	2.5	19.1	6.3	8.2	9.0
EA●	1B	16	M12x1.0	6.5	23.0	3.5	21.1	11.0	10.5	13.0
EA●	2B	20	M15x1.0	4.3	26.7	3.5	24.6	9.0	13.5	15.0
EA●	3B	24	M18x1.0	6.1	30.7	4.5	28.1	12.0	16.5	20.0
EA●	4B	30	M25x1.0	10.6	35.7	4.5	34.1	16.5	23.5	26.0
EA●	5B	41	M35x1.0	13.5	43.5	5.0	39.6	19.5	33.5	38.0

P1 Panel cut-out (page 117)

Note:

- ¹⁾ the 3B, 4B and 5B series are delivered with a conical nut.
²⁾ maximum length with crimp contacts.

● Standard ● Special

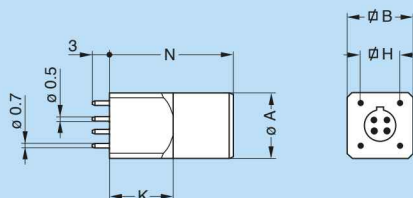
**EC● Socket with two nuts, key (G or A to K)**

Reference		Dimensions (mm)								
Model	Series	A ¹⁾	B	e	E	L	M	N ²⁾	S1	S3
EC●	00	10	10.2	M7x0.5	4.3	13.7	2.5	13.7	6.3	9
EC●	0B	12	12.4	M9x0.6	5.5	20.7	2.5	19.1	8.2	11
EC●	1B	16	15.8	M12x1.0	6.0	23.0	3.5	21.1	10.5	14
EC●	XB	18	19.0	M14x1.0	6.0	23.5	3.5	20.0	12.5	17
EC●	2B	20	19.2	M15x1.0	6.5	26.7	3.5	24.6	13.5	17
EC●	3B	24	25.0	M18x1.0	9.0	30.7	4.5	28.1	16.5	22
EC●	4B	30	34.0	M25x1.0	10.0	35.7	4.5	32.6	23.5	30
EC●	5B	41	40.0	M35x1.0	9.0	43.5	5.0	39.6	33.5	—

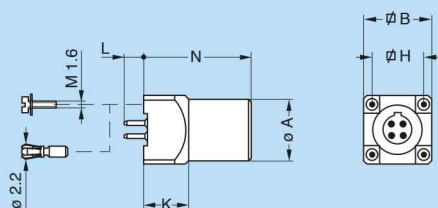
P1 Panel cut-out (page 117)**Note:**

- ¹⁾ the 3B, 4B series are delivered with a conical nut.
The 5B series is delivered with a round nut and a conical nut.
²⁾ maximum length with crimp contacts.

● Standard ● Special

EZ● Socket for printed circuit, key (G or A or B)

Reference		Dimensions (mm)				
Model	Series	A	B	H	K	N
EZ●	00	6.8	7	5.08	7	14

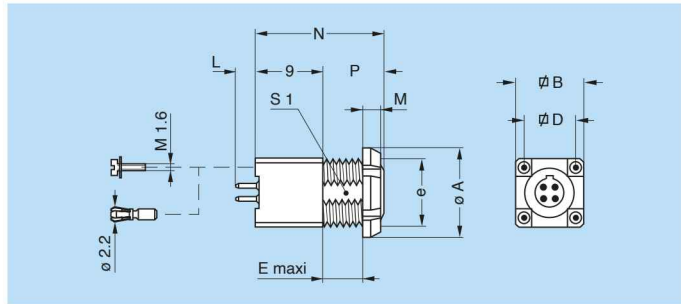
P7 + **P8** PCB drilling pattern (pages 119 and 120)**EZ● Socket for printed circuit, key (G or A to F)**

Reference		Dimensions (mm)				
Model	Series	A	B	H	K	N
EZ●	0B	9	10	7.62	8	15.0
EZ●	1B	11	12	7.62	8	19.0
EZ●	2B	14	15	10.16	9	22.5

P7 + **P8** PCB drilling pattern (pages 119 and 120)

Note: Length «L» depends on the number of contacts, see page 120.
Add letter «B» at the end of the reference to order with integrated harpoon pins (1.6 mm PCB thickness) (only for 0B and 1B series).

EY● Socket for printed circuit, nut fixing, key (G or A to F) (back panel mounting)



Reference		Dimensions (mm)								
Model	Series	A	B	D	e	E	M	N	P	S1
EY●	0B	12	10	7.62	M9x0.6	2.6	2.5	15.0	6.0	8.2
EY●	1B	14	12	7.62	M11x0.5	5.0	3.5	19.0	10.0	—
EY●	2B	20	15	10.16	M15x1.0	7.5	3.5	22.5	13.5	13.5

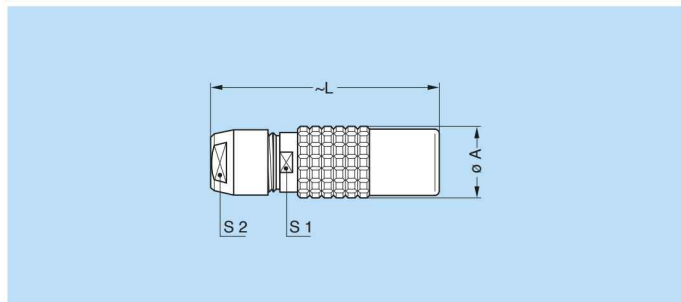
P1 Panel cut-out 0B and 2B series (page 117)

P6 Panel cut-out 1B series (page 117)

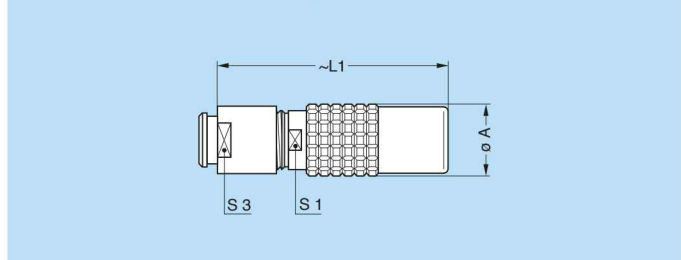
P7 + **P8** PCB drilling pattern (pages 119 and 120)

Note: Length «L» depends on the number of contacts, see page 120.
Add letter «B» at the end of the reference to order with integrated harpoon pins (1.6 mm PCB thickness) (only for 0B and 1B series).

PH● Free cable socket, key (G or A to K), cable collet



Cable collet and nut for fitting a bend relief ²⁾



Reference		Dimensions (mm)					
Model	Series	A	L	L1	S1	S2	S3
PH●	00 ¹⁾	6.8	26.0	34.0	5.5	5	6
PH●	0B	9.5	35.5	34.5	8.0	7	7
PH●	1B	12.5	40.5	39.5	10.0	9	9
PH●	XB	13.0	46.0	49.5	11.0	10	10
PH●	2B	16.5	47.0	46.0	13.0	12	12
PH●	3B	19.0	56.0	54.5	15.0	14	15
PH●	4B	26.0	73.0	69.0	21.0	20	20
PH●	5B	36.0	99.0	106.2	31.0	30	28

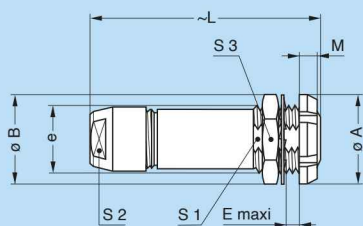
M1 Cable assembly (page 124)

Note: ¹⁾ the surface design of the 00 series is different.

● Standard ● Special

Note: ²⁾ to order, add a «Z» at the end of the reference.
The bend relief must be ordered separately (see page 105).

PF● Fixed cable socket, with two nuts, key (G or A to K), cable collet (back panel mounting)



Reference		Dimensions (mm)								
Model	Series	A ¹⁾	B	e	E	L	M	S1	S2	S3
PF●	00	10	10.2	M7x0.5	5.3	26.0	2.5	6.3	5	9
PF●	0B	12	12.4	M9x0.6	5.0	35.5	2.5	8.2	7	11
PF●	1B	16	15.8	M12x1.0	5.0	40.5	3.5	10.5	9	14
PF●	2B	20	19.2	M15x1.0	6.5	47.0	3.5	13.5	12	17
PF●	3B	24	25.0	M18x1.0	9.0	56.0	4.5	16.5	14	22
PF●	4B	30	34.0	M25x1.0	11.0	73.0	4.5	23.5	20	30
PF●	5B	41	40.0	M35x1.0	10.0	99.0	5.0	33.5	30	—

P1 Panel cut-out (page 117)

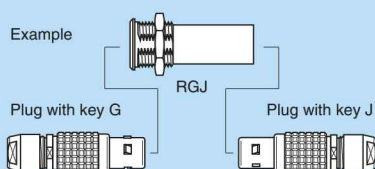
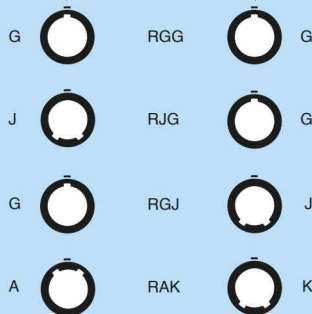
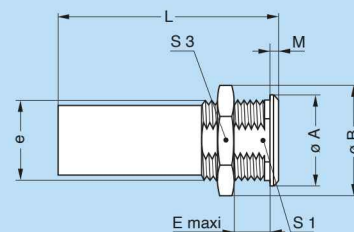
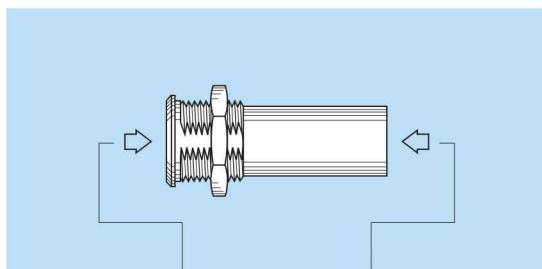
M1 Cable assembly (page 124)

Note:

¹⁾ the 3B, 4B series are delivered with a conical nut.
The 5B series is delivered with a round nut and a conical nut.

● Standard ● Special

R●● Fixed coupler, nut fixing, key (G or A or J) at the flange end and key (J or K) at the other end



Alignment key see page 38.

Reference		Contacts	Dimensions (mm)							
Model	Series	Type	A	B	e	E	L	M	S1	S3
RGG ¹⁾	0B	female – female	12	13.8	M10x0.75	8.0	34	2.0	9.0	12
RGG ²⁾	0B	female – female	12	13.8	M10x0.75	8.0	43	2.0	9.0	12
RJG	0B	male – female	12	13.8	M10x0.75	8.0	34	2.0	9.0	12
RGJ	0B	female – male	12	13.8	M10x0.75	8.0	34	2.0	9.0	12
RAK	0B	female – male	12	13.8	M10x0.75	8.0	34	2.0	9.0	12
RGG ³⁾	1B	female – female	16	19.2	M14x1.00	8.5	47	2.5	12.5	17
RJG	1B	male – female	16	19.2	M14x1.00	8.5	39	2.5	12.5	17
RGJ	1B	female – male	16	19.2	M14x1.00	8.5	39	2.5	12.5	17
RJG	2B	male – female	20	21.5	M16x1.00	12.0	44	4.0	15.0	19
RGJ	2B	female – male	20	21.5	M16x1.00	12.0	44	4.0	15.0	19
RGJ	3B	female – male	25	27.0	M20x1.00	32.0	53	4.0	18.5	24
RGJ	4B	female – male	34	34.0	M25x1.00	50.0	65	4.0	23.5	30

P4 Panel cut-out (page 117)

Note: for this fixed coupler, the first contact type mentioned is always the one at the flange end.
On request, these couplers can be produced in other series, with other keys.

¹⁾ only available with two contacts.

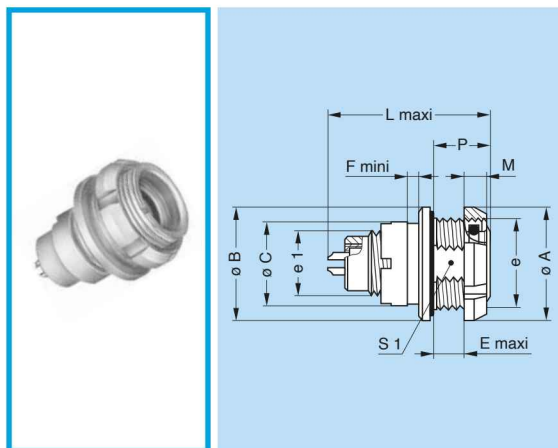
²⁾ RGG.0B only available from 3 till 5 contacts.

³⁾ RGG.1B only available till 7 contacts.

● Standard ● Special



HC● Socket, nut fixing, key (G or A to K), watertight or vacuumtight (watertight when mated)
(back panel mounting)

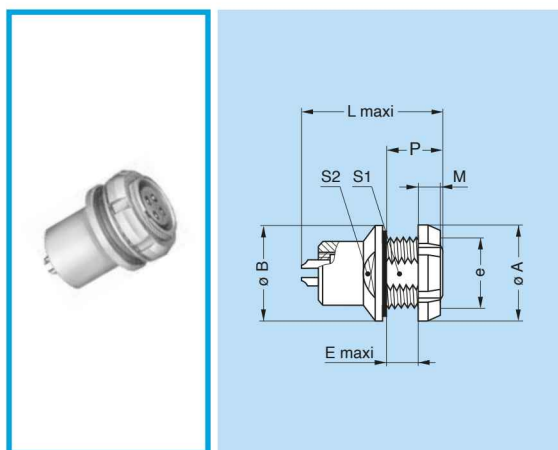


Reference		Dimensions (mm)										
Model	Series	A	B	C	e	e1	E	F	L	M	P	S1
HC●	0B	18	18	12.0	M14x1.0	M9x0.6	3.9	1.0	24.5	3.5	7.5	12.5
HC●	1B	20	20	14.5	M16x1.0	M12x1.0	6.2	2.0	30.3	3.5	10.0	14.5
HC●	2B	24	24	17.5	M19x1.0	M14x1.0	6.7	2.0	35.6	3.5	11.3	17.0

P3 Panel cut-out (page 117)

Note: this model ensures watertightness (IP66) in the mating area when mated with FGG or similar plug.

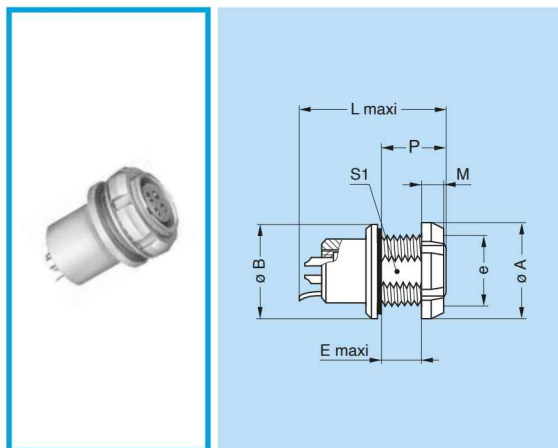
HE● Socket, nut fixing, key (G or A to K), watertight or vacuumtight (back panel mounting)



Reference		Dimensions (mm)									
Model	Series	A	B	e	E	L	M	P	S1	S2	
HE●	00	10	11	M7x0.5	2.5	18.2	2.5	6.0	6.3	–	
HE●	0B	12	13	M9x0.6	5.5	21.5	2.5	9.0	8.2	–	
HE●	1B	16	18	M12x1.0	6.5	26.6	3.5	11.0	10.5	–	
HE●	2B	20	20	M15x1.0	5.0	31.6	3.5	9.6	13.5	15	

P5 Panel cut-out (page 117)

HM● Socket with earthing tag, nut fixing, key (G or A to K), watertight or vacuumtight
(back panel mounting)



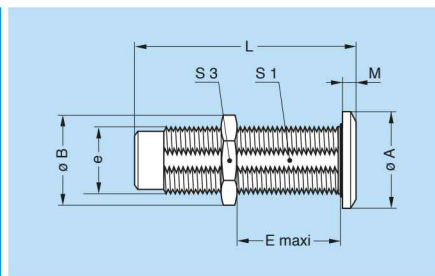
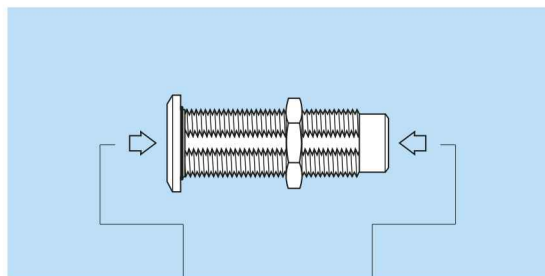
Reference		Dimensions (mm)								
Model	Series	A ¹⁾	B	e	E	L	M	P	S1	
HM●	00	10	11	M7x0.5	2.5	18.0	2.5	6.0	6.3	
HM●	0B	12	13	M9x0.6	5.5	21.5	2.5	9.0	8.2	
HM●	1B	16	18	M12x1.0	5.5	26.6	3.5	11.0	10.5	
HM●	2B ²⁾	20	20	M15x1.0	5.5	31.6	3.5	9.6	13.5	
HM●	3B	24	25	M18x1.0	7.5	36.1	4.5	14.0	16.5	

P5 Panel cut-out (page 117)

Note:

- ¹⁾ the 3B series is delivered with a conical nut.
²⁾ the surface design of the 2B series is different.

S●● Fixed coupler, nut fixing, key (G or A, J or K) at the flange end and key (G or A, J or K) at the other end, watertight or vacuumtight



G

SGJ

J

J

SJG

G

K

SKA

A

A

SAK

K

Example

Plug with key G SGJ Plug with key J

Alignment key see page 38.

Reference		Contacts Type	Dimensions (mm)							
Model	Series		A	B ¹⁾	e	E	L	M	S1	S3
SGJ	0B	female – male	14	13.8	M10x0.75	17	34	2.0	9.0	12
SJG	0B	male – female	14	13.8	M10x0.75	17	34	2.0	9.0	12
SGJ	1B	female – male	17	15.8	M12x1.00	28	39	2.5	10.5	14
SJG	1B	male – female	17	15.8	M12x1.00	28	39	2.5	10.5	14
SGJ	2B	female – male	20	21.5	M16x1.00	25	44	4.0	15.0	19
SJG	2B	male – female	20	21.5	M16x1.00	25	44	4.0	15.0	19
SGJ	3B	female – male	25	27.0	M20x1.00	30	53	4.0	18.5	24
SJG	3B	male – female	25	27.0	M20x1.00	30	53	4.0	18.5	24
SAK	3B	female – male	25	27.0	M20x1.00	30	53	4.0	18.5	24
SAK	4B	female – male	34	34.0	M25x1.00	50	65	4.0	23.5	30
SGJ	4B	female – male	34	34.0	M25x1.00	50	65	4.0	23.5	30
SJG	4B	male – female	34	34.0	M25x1.00	50	65	4.0	23.5	30
SGJ	5B	female – male	45	40.0	M35x1.00	58	80	5.0	33.5	–
SJG	5B	male – female	45	40.0	M35x1.00	58	80	5.0	33.5	–
SKA	5B	male – female	45	40.0	M35x1.00	58	80	5.0	33.5	–
SAK	5B	female – male	45	40.0	M35x1.00	58	80	5.0	33.5	–

P4 Panel cut-out (page 117)

P5 Panel cut-out 1B series (page 117)

Note: ¹⁾ the 5B series is delivered with a round nut.

Note: for this fixed coupler, the first contact type mentioned is always the one at the flange end. On request these couplers can be produced in other series, with other keys.

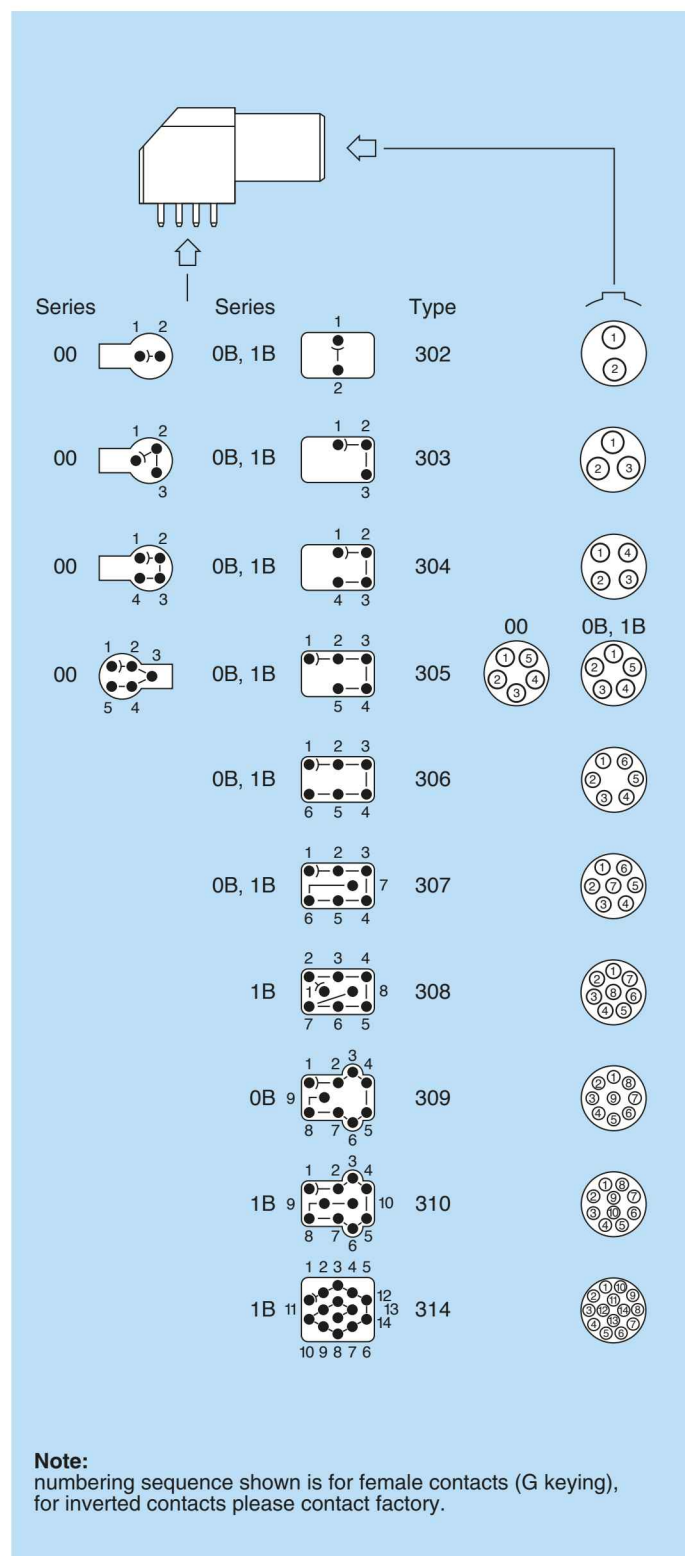
● Standard ● Special



Elbow socket models

Technical characteristics

Types



Materials and treatment

Component	Material	Surface Treat. (µm)		
		Cu	Ni	Au
Housing	PPS	–		
	Brass	0.5	3	–
Metallic parts	Brass	0.5	3	–
Earthing crown	Bronze	0.5	3	–
Insulator	PEEK	–		
Female contact	Bronze	0.5	3	1.5

Note:

The surface treatment standards are as follows:
– Nickel: SAE AMS QQ N 290. – Gold: ISO 27874

Electrical

Model	Series	Types	Test voltage (kV DC) ¹⁾ Contact-contact	Test voltage (kV DC) ¹⁾ Contact-shell	Rated current (A) ¹⁾
EP•XB•	00	302-303-304-305	1.40	1.40	2.0
EP•EX•	0B	302	2.03	1.68	4.5
EP•EX•	0B	303	2.38	2.24	4.5
EP•EX•	0B	304	1.82	1.54	4.5
EP•EX•	0B	305	1.75	1.68	4.5
EP•EX•	0B	306	1.75	1.68	2.5
EP•EX•	0B	307	1.40	1.40	2.0
EP•EX•	0B	309	0.84	0.70	1.5
EP•EX•	1B	302	2.38	2.03	4.5
EP•EX•	1B	303	2.24	2.59	4.5
EP•EX•	1B	304	2.38	2.52	4.5
EP•EX•	1B	305	1.82	2.17	4.5
EP•EX•	1B	306	1.89	2.03	4.5
EP•EX•	1B	307	2.03	2.03	2.0
EP•EX•	1B	308	1.82	1.82	2.0
EP•EX•	1B	310	1.40	1.40	1.5
EP•	1B	314	1.40	1.82	1.0

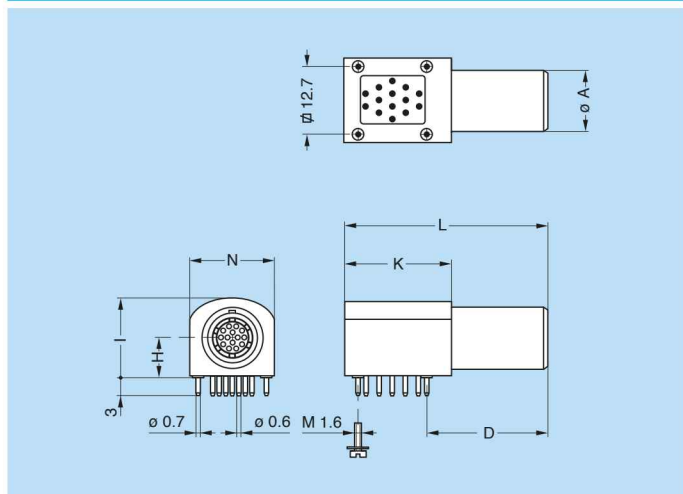
Note:

¹⁾ see calculation method, caution and suggested standard on page 134.

P10 PCB drilling pattern (page 122)

P11 PCB drilling pattern (page 122 and 123)

EP● Elbow (90°) socket for printed circuit, key (G or A to F) (solder or screw fixing)

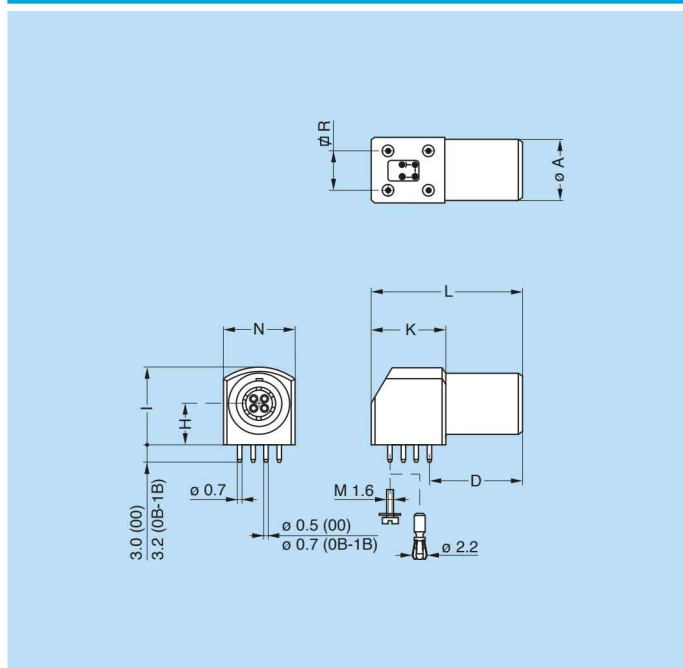


Part number	Dimensions (mm)						
	A	D	H	I	K	L	N
EP●.1B.314.NLN	11	21	7.7	14.3	19	36	15.4

P12 PCB drilling pattern (page 123)

Note: to replace the 4 ground pins by 4 screws (M1.6) add a «S» to the end of the part number. (e.g.: EPG.1B.314.NLNS)

EP● Elbow (90°) socket for printed circuit, key (G or A to F) (solder, screw or harpoon fixing)



Part number	Dimensions (mm)							
	A	D	H	I	K	L	N	R
EP●.00.302.HLN	6.8	11.5	3.5	7.0	8.7	19	7.1	5.08
EP●.00.303.HLN								
EP●.00.304.HLN								
EP●.00.305.HLN								
EP●.0B.302.HLN	9.0	14.6	6.7	12.6	13.3	25	11.7	7.62
EP●.0B.303.HLN								
EP●.0B.304.HLN								
EP●.0B.305.HLN								
EP●.0B.306.HLN	11.0	16.6	7.5	14.0	13.3	27	12.6	7.62
EP●.0B.307.HLN								
EP●.0B.309.HLN								
EP●.1B.302.HLN								
EP●.1B.303.HLN								
EP●.1B.304.HLN								
EP●.1B.305.HLN								
EP●.1B.306.HLN								
EP●.1B.307.HLN								
EP●.1B.308.HLN								
EP●.1B.310.HLN								

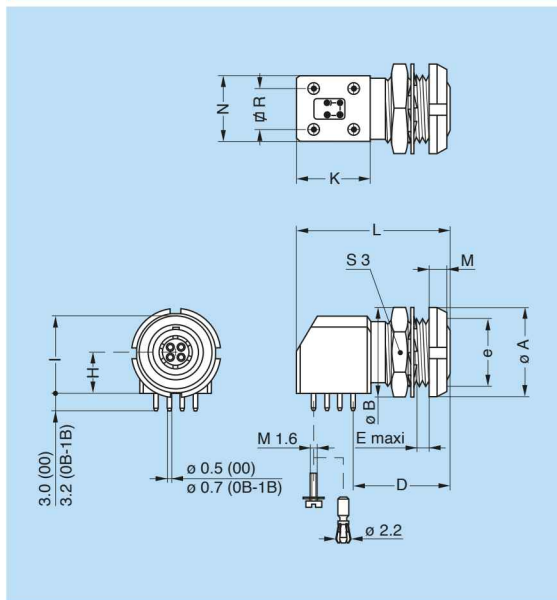
Note: In the 0B and 1B series, it is possible to replace the 4 ground pins by 4 screws (M1.6) add a «S» to the end of the part number. (e.g.: EPG.0B.307.HLNS).

A second alternative is to add a «B» at the end of the part number (EPG.0B.307.HLNB), the connector is delivered with integrated harpoon pins for rapidly assembly (1.6 mm PCB thickness).

P10 PCB drilling pattern 00 series (page 122)

P11 PCB drilling pattern 0B, 1B series (page 122 and 123)

EX● Elbow (90°) socket for printed circuit with two nuts, key (G or A to F) (solder, screw or harpoon fixing) (back panel mounting)

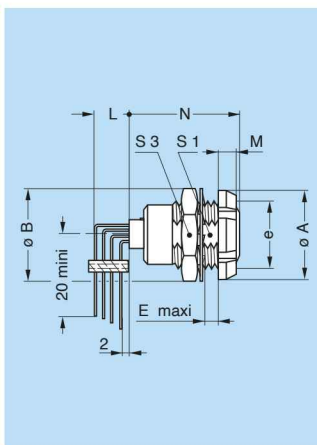


Note: In the 0B and 1B series, it is possible to replace the 4 ground pins by 4 screws (M1.6) add a «S» to the end of the part number. (e.g.: EXG.0B.307.HLNS). A second alternative is to add a «B» at the end of the part number (EXG.0B.307.HLNB), the connector is delivered with integrated harpoon pins for rapidly assembly (1.6 mm PCB thickness).

Part number	Dimensions (mm)												
	A	B	D	e	E	H	I	K	L	M	N	R	S3
EX●.0B.302.HLN	12	12.4	14.6	M9x0.6	4.5	6.7	12.6	13.3	25	2.5	11.7	7.62	11
EX●.0B.303.HLN													
EX●.0B.304.HLN													
EX●.0B.305.HLN													
EX●.0B.306.HLN													
EX●.0B.307.HLN													
EX●.0B.309.HLN													
EX●.1B.302.HLN	14	15.0	16.6	M11x0.5	4.5	7.5	14.0	13.3	27	3.5	12.6	7.62	13
EX●.1B.303.HLN													
EX●.1B.304.HLN													
EX●.1B.305.HLN													
EX●.1B.306.HLN													
EX●.1B.307.HLN													
EX●.1B.308.HLN													
EX●.1B.310.HLN													

- P2 Panel cut-out 0B series (page 117)
- P6 Panel cut-out 1B series (page 117)
- P11 PCB drilling pattern 0B, 1B series (page 122 and 123)

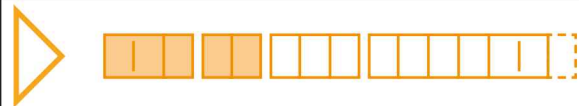
EC● Elbow socket for printed circuit with two nuts, key (G or A to F) with elbow (90°) contact (back panel mounting)



Reference		Dimensions (mm)							
Model	Series	A ¹⁾	B	e	E	M	N _{max}	S1	S3
EC●	0B	12	12.4	M9x0.6	5.5	2.5	18.3	8.2	11
EC●	1B	16	15.8	M12x1.0	6.0	3.5	20.3	10.5	14
EC●	2B	20	19.2	M15x1.0	6.5	3.5	24.3	13.5	17
EC●	3B	24	25.0	M18x1.0	9.0	4.5	27.8	16.5	22

- P1 Panel cut-out (page 117)
- P9 PCB drilling pattern (page 121)

Note: ¹⁾ the 3B series is delivered with a conical nut.



Special models

Technical characteristics

Mechanical and environmental

Characteristics	Value	Standard
Endurance ¹⁾	> 5000 cycles ²⁾	IEC 60512-5 test 9a
Humidity	up to 95% at 60°C	
Temperature range ⁴⁾	- 55°C, + 250°C	
Resistance to vibrations	10-2000 Hz, 15g	IEC 60068-2-6 test Fc
Shock resistance	100 g, 6 ms	IEC 60068-2-27 test Ea
Salt spray corrosion test ³⁾	> 1000h	IEC 60068-2-11 test Ka
Protection index (mated)	IP50	IEC 60529
Climatical category	55/175/21	IEC 60068-1

Electrical

Characteristics		Value	Standard
Shielding efficiency	at 10 MHz	> 75 dB	IEC 60169-1-3 test 9a
	at 1 GHz	> 40 dB	IEC 60169-1-3 test 9a

Note:

the various tests have been carried out with FGG and EGG connector pairs, with chrome-plated brass shell and PEEK insulator.

Detailed electrical characteristics, as well as materials and treatment are presented in the chapter Technical characteristics on page 130.

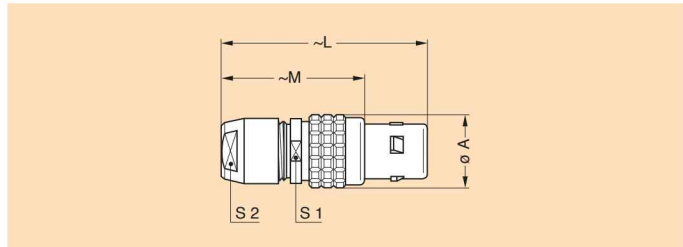
¹⁾ see page 133, contact resistance after mating cycles. See page 131, mechanical endurance latching force.

²⁾ 1000 cycles for FEG models.

³⁾ for chrome plated product (« C » material code).

⁴⁾ maximum temperature valid for short periods of use.

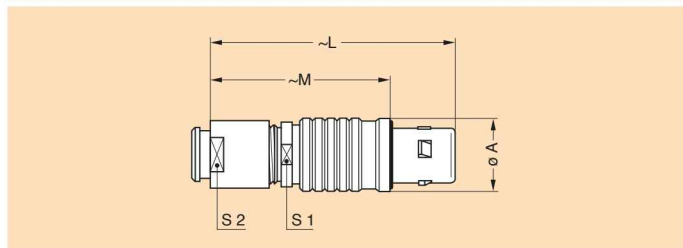
JGG Straight plug, short version, key (G), cable collet



Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
JGG	0B	9.5	32	22	8	7

M4 Cable assembly (page 126)

FE● Straight plug, key (G or A to K), cable collet, front seal and nut for fitting a bend relief ¹⁾ (IP 54 protection index when mated)

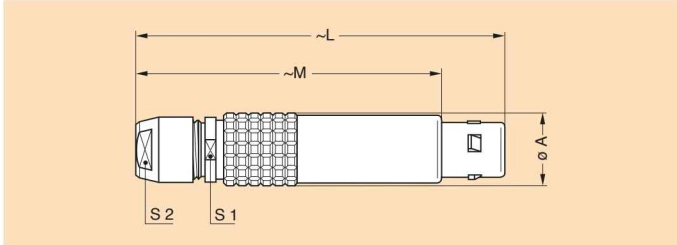


Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
FE●	0B	11.0	35.0	25.0	8	7
FE●	1B	13.5	42.0	33.0	10	9
FE●	2B	16.5	48.0	36.0	13	12
FE●	3B	19.4	56.5	41.5	15	15

M1 Cable assembly (page 124)

Note: ¹⁾ to order, add a «Z» at the end of the reference. The bend relief must be ordered separately (see page 105).

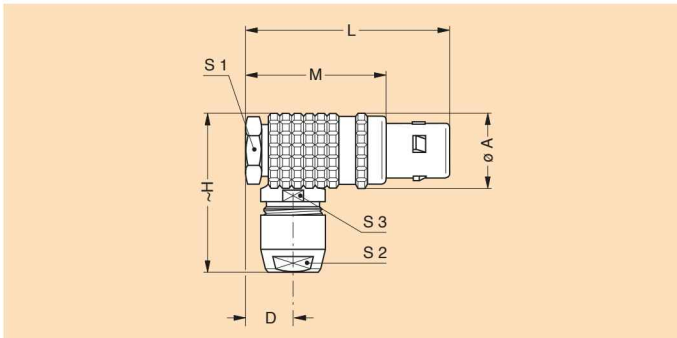
FD● Straight plug, long version, key (G or A to K), cable collet



Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
FD●	1B	12	68	57	10	9
FD●	2B	15	79	67	13	12

M2 Cable assembly (page 126)

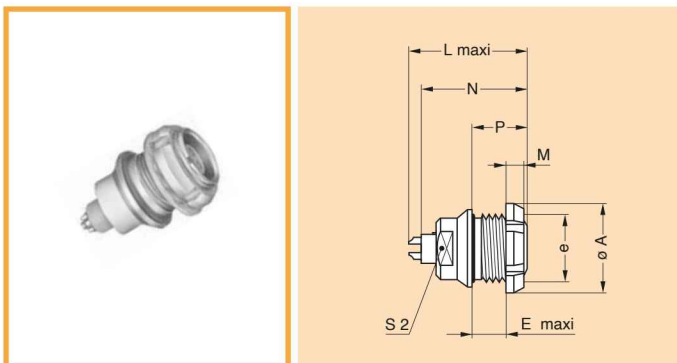
FH● Elbow (90°) plug, key (G or A to K), cable collet



Reference		Dimensions (mm)							
Model	Series	A	D	H	L	M	S1	S2	S3
FH●	4B	26	15	52	67	49	22	20	21
FH●	5B	36	21	74	90	65	32	30	31

M3 Cable assembly (page 124)

EF● Socket, nut fixing, key (G or A to K), with two flats on the shell and O-ring (back panel mounting)

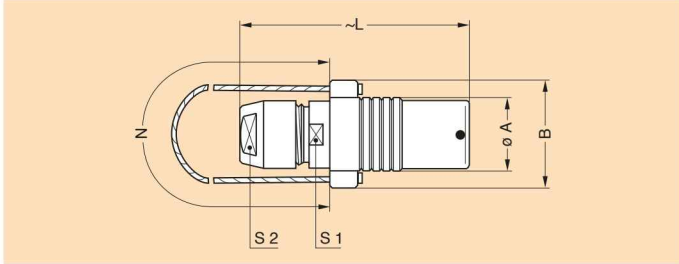


Reference		Dimensions (mm)							
Model	Series	A	e	E	L	M	N ¹⁾	P	S2
EF●	0B	12	M9x0.6	5.5	20.7	2.5	19.1	9	8

P2 Panel cut-out (page 117)

Note: ¹⁾ maximum length with crimp contacts.

PN● Free cable socket, nut fixing, key (G or A to K), cable collet with lanyard release

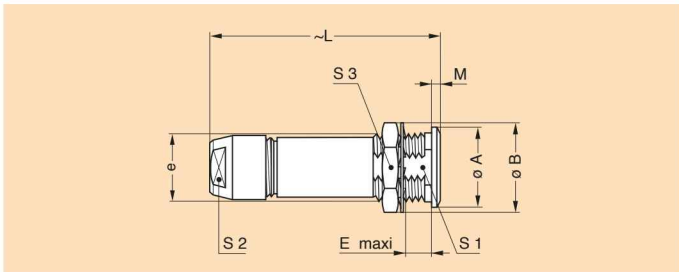


Reference		Dimensions (mm)					
Model	Series	A	B	L	N	S1	S2
PN●	1B	12.4	18.4	40.5	140	10	9
PN●	2B	16.5	22.5	47.0	160	13	12
PN●	3B	19.0	26.0	56.0	190	15	14
PN●	4B	26.0	33.0	73.0	230	21	20
PN●	5B	36.0	43.0	99.0	300	31	30

M1 Cable assembly (page 124)

Note: cable material: stainless steel with Polyamide sheath.

PK● Fixed cable socket, nut fixing, key (G or A to K), cable collet



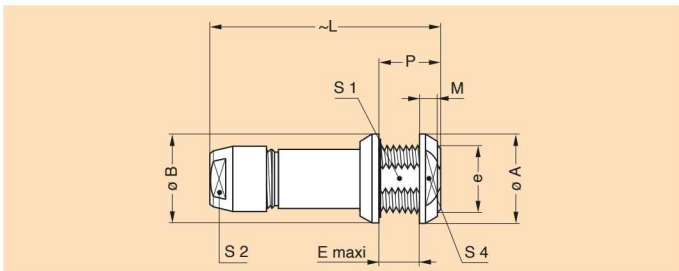
Reference		Dimensions (mm)								
Model	Series	A ¹⁾	B	e	E	L	M	S1	S2	S3
PK●	00	8	10.2	M7x0.5	6.5	26.0	1.0	6.3	5	9
PK●	0B	10	12.4	M9x0.6	7.0	35.5	1.2	8.2	7	11
PK●	1B	14	15.8	M12x1.0	7.5	40.5	1.5	10.5	9	14
PK●	2B	18	19.2	M15x1.0	8.5	47.0	1.8	13.5	12	17
PK●	3B	22	25.0	M18x1.0	11.5	56.0	2.0	16.5	14	22
PK●	4B	28	34.0	M25x1.0	12.0	73.0	2.5	23.5	20	30
PK●	5B	40	40.0	M35x1.0	11.0	99.0	3.0	33.5	30	—

P1 Panel cut-out (page 117)

M1 Cable assembly (page 124)

Note: ¹⁾ the 5B series is delivered with a tapered washer and a round nut.

PE● Fixed cable socket, nut fixing, key (G or A to K), cable collet (back panel mounting)



Reference		Dimensions (mm)									
Model	Series	A	B	e	E	L	M	P	S1	S2	S4
PE●	3B	24	25	M18x1.0	5.0	56	4.5	12	16.5	14	20
PE●	4B	32	34	M25x1.0	12.5	73	5.0	20	23.5	20	27

P1 Panel cut-out (page 117)

M1 Cable assembly (page 124)

Note: this model has an o-ring on the flange.



Watertight or vacuumtight models

These plug, socket and coupler models allow the device on which they are fitted to reach a protection index of IP68 as per IEC 60529. They are fully compatible with plugs of the same series and are widely used for portable radios, military, laboratory equipment, aviation, etc.

Watertight models are identified by a letter «P» at the end of the reference.

Most of these models are also available in a vacuumtight version. Such models are identified by the letters «PV» at the end of the part number (certificate on request).

Technical characteristics

Mechanical and environmental

Characteristics	Value	Standard
Endurance ¹⁾	> 5000 cycles	IEC 60512-5 test 9a
Humidity	up to 95% at 60°C	
Temperature range	0B to 1B	- 20°C, + 100°C
	2B to 3B	- 20°C, + 80°C
Salt spray corrosion test ⁴⁾	> 1000h	IEC 60068-2-11 test Ka
Climatical category	20/80/21	IEC 60068-1
Leakage rate (He) ²⁾	< 10 ⁻⁷ mbar.l.s ⁻¹	IEC 60512-2-17 test Qk

Characteristics	Value	Standard
Maximum operating pressure ³⁾	0B	60 bar
	1B	60 bar
	2B	40 bar
	3B	30 bar

Note:

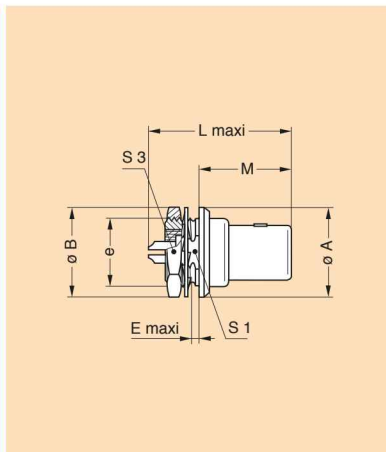
¹⁾ see page 133, contact resistance after mating cycles. See page 131, mechanical endurance latching force.

²⁾ only for vacuumtight models. Residual traces of grease used during (He) leak testing are on the o-ring. Please contact us for further details.

³⁾ this value corresponds to the maximum allowed pressure difference for the assembled socket.

⁴⁾ for chrome plated product («C» material code).

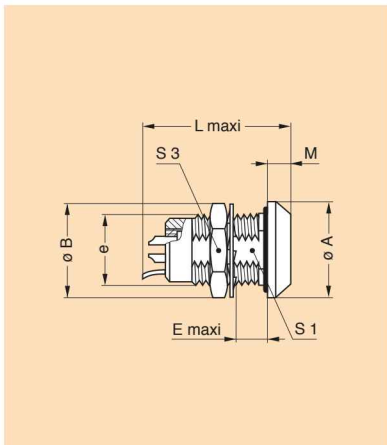
YH● Fixed plug, nut fixing, non-latching, key (G or A to K)



Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
YH●	0B	13	12.4	M9x0.6	2.4	24.1	14.2	8.2	11
YH●	1B	16	15.8	M12x1.0	3.9	28.0	16.2	10.5	14
YH●	2B	19	19.2	M15x1.0	5.5	33.1	17.8	13.5	17
YH●	3B	22	25.0	M18x1.0	5.1	38.2	22.2	16.5	22

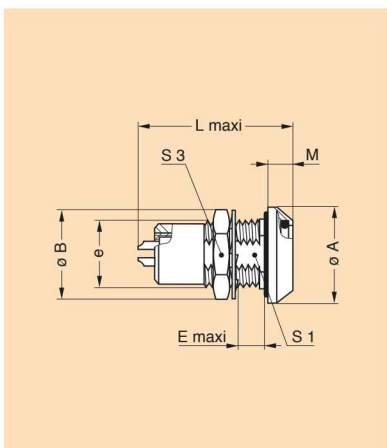
P5 Panel cut-out (page 117)

Note: this model does not include an O-ring behind the flange, it ensures only IP61 protection index. Consequently, it is not vacuumtight. Watertightness (when mated) is only ensured with HHG and HCG sockets.

HN● Socket, nut fixing, with earthing tag, key (G or A to K), watertight or vacuumtight


Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
HN●	0B	13	12.4	M9x0.6	7	21.5	3	8.2	11

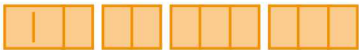
P5 Panel cut-out (page 117)

HH● Socket, nut fixing, key (G or A to K), watertight or vacuumtight (watertight when mated)


Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
HH●	0B	13	12.4	M9x0.6	7.0	24.5	4.8	8.2	11
HH●	1B	18	15.8	M12x1.0	7.0	30.3	5.2	10.5	14
HH●	2B	22	19.2	M15x1.0	8.0	35.6	6.0	13.5	17
HH●	3B	25	25.0	M18x1.0	11.5	41.3	7.2	16.5	22

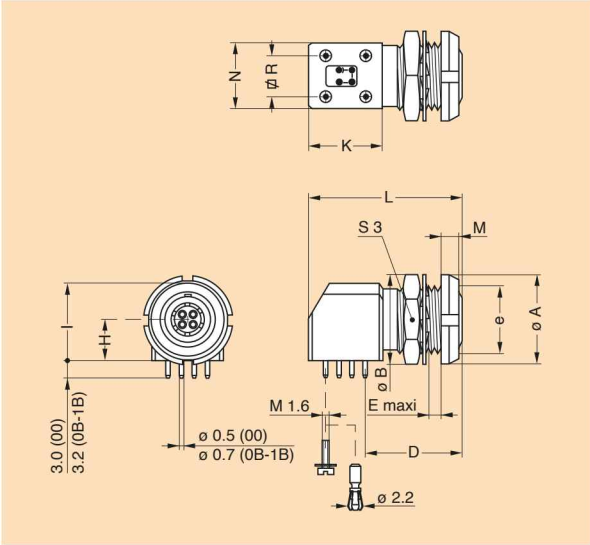
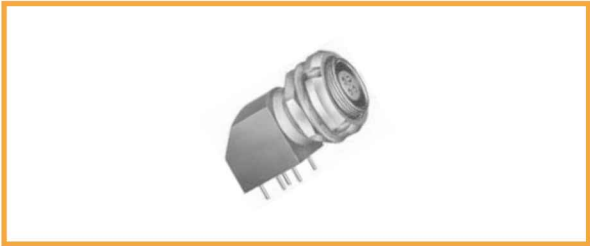
P5 Panel cut-out (page 117)

Note: this model ensures watertightness (IP66) in the mating area when mated with FGG or similar plug.



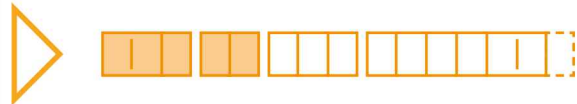
Elbow socket models

XB● Elbow (90°) socket for printed circuit with two nuts, key (G or A or B) (solder, screw or harpoon fixing)



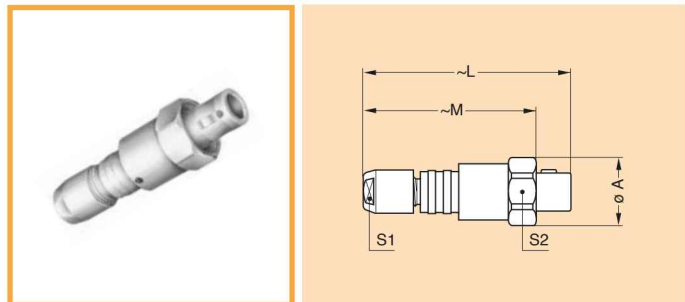
Part number	Dimensions (mm)												
	A	B	D	e	E	H	I	K	L	M	N	R	S3
XB●.00.302.HLN													
XB●.00.303.HLN	10	10.2	11.5	M7x0.5	2.1	3.5	7.0	8.7	19	2.5	7.1	5.08	9
XB●.00.304.HLN													

- P2** Panel cut-out (page 117)
- P10** PCB drilling pattern 00 series (page 122)



Threaded-latching models

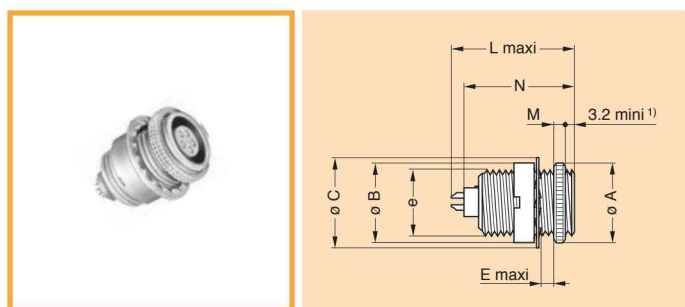
FV● Straight plug, key (G or B), cable collet



Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
FV●	00	9	28.5	24	5	8

Note: to be ordered with nut for fitting a bend relief to obtain the rating IP 64.

ES● Socket with two round nuts, key (G or B), long threaded shell (back panel mounting)

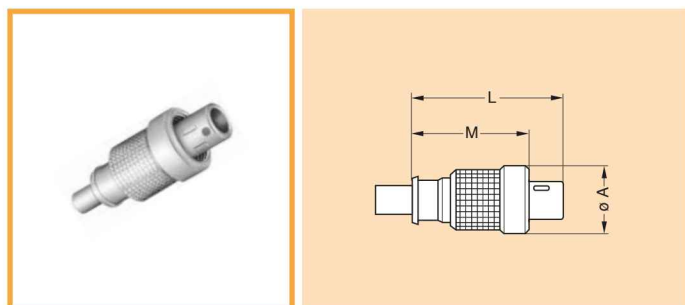


Reference		Dimensions (mm)						
Model	Series	A	B	C	e	E	L	M
ES●	00	9	9	9.5	M7x0.5	3.2	15.5	2

P2 Panel cut-out (page 117)

Note: ¹⁾ minimum length of free thread to ensure mating.

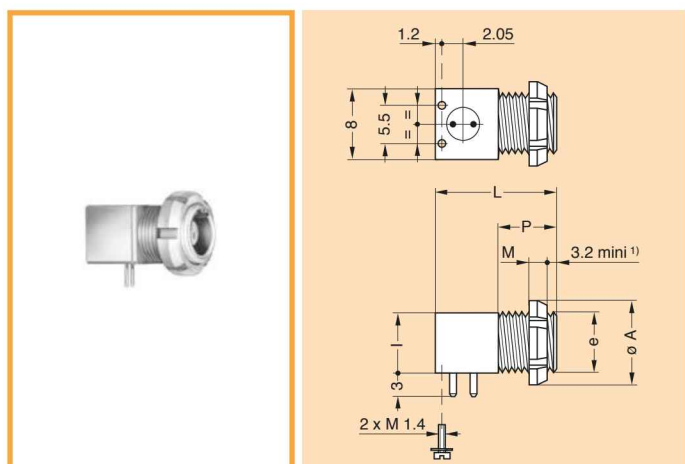
FVB Straight plug, keys (B), short shell for special cable crimping and for fitting a bend relief



Reference		Dimensions (mm)		
Model	Series	A	L	M
FVB	00	9	20	15.4

Note: part number for microphone applications: FVB.00.303.NLAE24. After assembly the special bend relief GMF.00.018.D● (to be ordered separately) is to be fitted.

XRБ Elbow (90°) socket for printed circuit, keys (B), short shell with one nut, screw fixing (back panel mounting)



Reference		Dimensions (mm)					
Model	Series	A	e	I	L	M	P
XRБ	00	10	M7x0.5	7	14	2.5	7

P2 Panel cut-out (page 117)

P10 PCB drilling pattern for contact only (page 122)

Note: ¹⁾ minimum length of free thread to ensure mating.



Bridge models

Technical characteristics

Mechanical and climatical

Characteristics	Value	Standard
Endurance ¹⁾	> 5000 cycles	IEC 60512-5 test 9a
Working temperature	maximum 90°C	

Note: ¹⁾ see page 133, contact resistance after mating cycles. See page 131, mechanical endurance latching force.

Materials and treatment

Component	Material	Surface treat. (µm)			
		Cu	Ni	Cr	Au
Plastic housing	Polyamide	–			
Metallic parts	Brass	0.5	3	–	–
	Brass	0.5	3	0.3	–
Insulator	PEEK	–			
Male contact	Brass	0.5	3	–	1.0
Female contact	Bronze	0.5	3	–	1.5

Note: the surface treatment standards are as follows:
– Nickel: SAE AMS QQ N 290, chrome: SAE AMS 2460, gold: ISO 27874

Note:
the last letter of the part number indicates the colour of the housing.
Ex. G (standard) is grey. To obtain another colour, replace this letter by the letter corresponding to the selected colour (see table on page 85).

Electrical

Characteristics	Value	Standard
Contact resistance	< 6 mΩ	IEC 60512-2-1 test 2a

Part number	Series	Audio-Mono	Audio-Stereo	Test voltage (kV DC) ¹⁾²⁾	Rated current (A)
CFF.0B.302.PLCG	0B	●	–	1.47	4
CRG.0B.302.PLEG	0B	●	–	1.47	4
CFF.0B.303.PLCG	0B	●	–	1.12	4
CRG.0B.303.PLEG	0B	●	–	1.12	4
CRG.0B.306.PLEG	0B	–	●	0.56	2
CFF.1B.303.PLCG	1B	●	–	1.75	5
CRG.1B.303.PLEG	1B	●	–	1.75	5
CFF.1B.306.PLCG	1B	–	●	1.12	3
CRG.1B.306.PLEG	1B	–	●	1.12	3

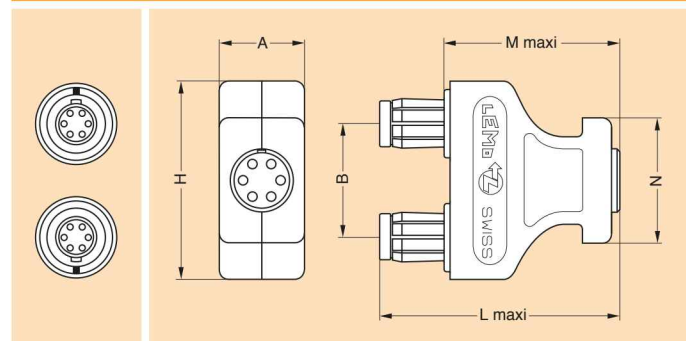
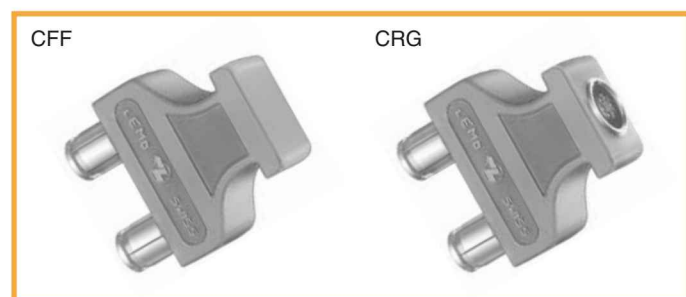
Note:

¹⁾ see calculation method, caution and suggested standard on page 134.
²⁾ lowest measured value; contact to contact or contact to shell.

● Special

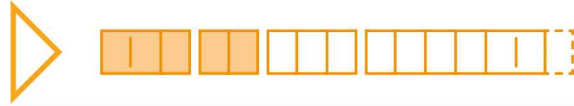
CFF Bridge plug with two non-latching plugs

CR● Bridge plug with two non-latching plugs, and monitoring socket, key (G or A to K)



Model	Series	Dimensions (mm)					
		A	B	H	L	M	N
CFF-CR●	0B	13.5	14	27.5	37.2	27.2	22.5
CFF-CR●	1B	15.0	20	35.0	42.0	31.0	22.0

Note: in order to provide the user with a coding system, the bridge plug housing, the double panel washers and the bend reliefs are available in nine colours.



Plastic housing models

These connectors are particularly recommended for all applications requiring maximum electrical insulation when mated. The design, including a latch sleeve and a metal earthing crown, guarantees EMC screening efficiency to meet most requirements.

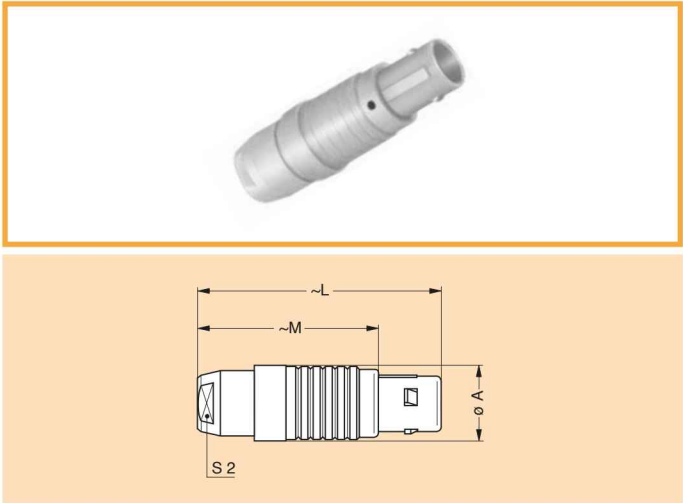
Technical characteristics

Mechanical and environmental

Characteristics	Value			Standard
	PEEK	PSU	PPSU	
Colour	natural (beige)	white or grey	cream	–
Endurance ¹⁾	> 5000 cycles	> 5000 cycles	> 5000 cycles	IEC 60512-5 test 9a
Humidity	up to 95% at 60°C			–
Temperature range	- 50°C, + 250°C ³⁾	- 50°C, + 150°C	- 50°C, + 180°C	–
Sterilization resistance ²⁾	> 200 cycles	~20 cycles	> 100 cycles	IEC 60601-1 § 44.7
Resistance to solvents	very good	limited	good	–

Note: ¹⁾ see page 133, contact resistance after mating cycles. See page 131, mechanical endurance latching force. ²⁾ Steam sterilization. ³⁾ maximum temperature valid for short periods of use.

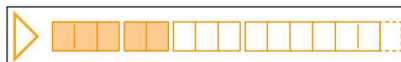
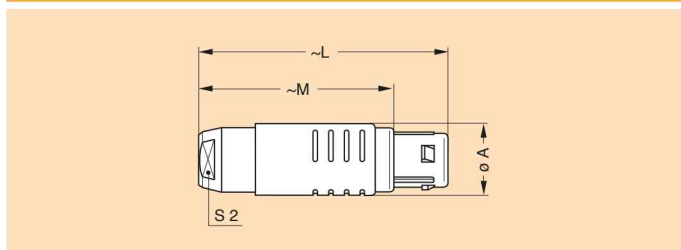
FG● Straight plug, key (G or J), cable collet, PEEK outer shell



Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FG●	0B	11.0	37.4	27.4	8
FG●	1B	13.5	43.0	32.0	10
FG●	3B	19.0	62.0	47.0	15
FG●	4B	26.0	78.5	60.5	20

M1 Cable assembly (page 124)

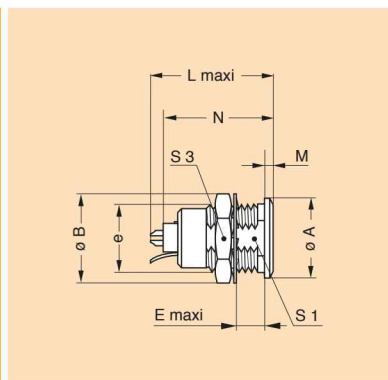
Note: this model is also available with nut for fitting a bend relief in 1B series (for all collet type) and in 4B series (only from collet M82 and up). To order, add a «Z» at the end of the reference. The bend relief must be ordered separately (see page 105).

**FGY** Straight plug, keys (Y), cable collet and PSU or PPSU outer shell

Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FGY	2B	16.5	50.5	39.5	13
FGY	3B	19.0	58.0	43.0	15
FGY	4B	26.0	76.2	58.2	20

M1 Cable assembly (page 124)

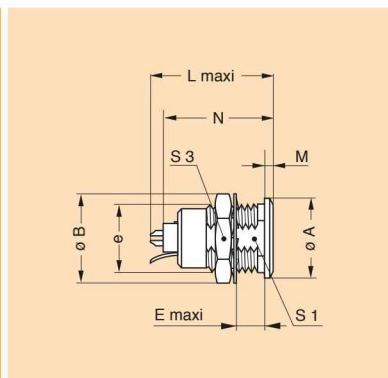
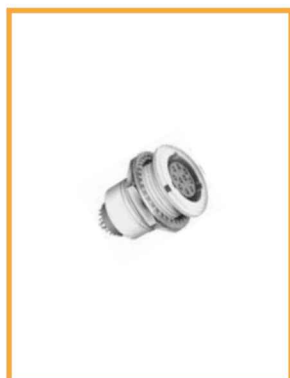
Note: this model is also available with nut for fitting a bend relief in 2B series (only for collet M42 and up), in 3B series (only for collet D62 and up) and in 4B series (only for collet D82 and up). To order, add a «Z» at the end of the reference.
The bend relief must be ordered separately (see page 105).

EN● Socket with earthing tag, nut fixing, key (G or J), PEEK outer shell

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N ¹⁾	S1	S3
EN●	0B	11	12.5	M9x0.6	6.4	20.7	1.8	16.5	8.2	11
EN●	1B	14	15.8	M12x1.0	7.5	23.0	1.5	21.1	10.5	14
EN●	3B	22	25.0	M18x1.0	11.5	30.7	2.0	28.1	16.5	22
EN●	4B	28	34.0	M25x1.0	12.0	35.7	2.5	32.6	23.5	30

P1 Panel cut-out (page 117)

Note: ¹⁾ maximum length with crimp contacts.

ENY Socket with earthing tag, nut fixing, keys (Y), PSU or PPSU outer shell

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N ¹⁾	S1	S3
ENY	2B	18	19.2	M15x1.0	8.5	26.7	1.8	24.6	13.5	17
ENY	3B	22	25.0	M18x1.0	11.5	30.7	2.0	28.1	16.5	22
ENY	4B	28	34.0	M25x1.0	12.0	35.7	2.5	32.6	23.5	30

P1 Panel cut-out (page 117)

Note: ¹⁾ maximum length with crimp contacts.

Other models with plastic outer shell are available on request.



Alignment key

Alignment key and polarized keying system

B series connector model part numbers are composed of three letters. The LAST LETTER indicates the key position and the contact type (male or female).

Front view of a socket				Ref.	Nb of spurs	Series								Contact type	
G	A	B	C			00	0B	1B	XB	2B	3B	4B	5B	Plug	Socket
				G	1	●	●	●	●	●	●	●	●	male	female
				A	2	●	●	●	●	●	●	●	●	male	female
				B	2	●	●	●	—	●	●	●	●	male	female
				C	2	—	●	●	—	●	●	●	●	male	female
				F	2	—	●	●	—	●	●	●	●	male	female
				J	2	●	●	●	—	●	●	●	●	female	male
				K	2	—	●	●	—	●	●	●	●	female	male
				Y	3	—	—	—	—	●	●	●	—	male	female
					3	—	—	—	—	●	●	●	—	male	female

● Standard
● Special

Note: FGY and ENY models are not available with all the keys. Please consult pages corresponding to these models.
For R●● models see explanation on page 21 and for S●● models see explanation on page 24.

Note:
1) for 5B series.
2) for 2B, 3B, 4B and 5B series.
3) only FGY and ENY models are available (plastic).

Product safety notice & Disclaimers

PLEASE READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY AND CONSULT ALL RELEVANT NATIONAL AND INTERNATIONAL SAFETY REGULATIONS FOR YOUR APPLICATION.
IMPROPER HANDLING, CABLE ASSEMBLY, OR WRONG USE OF CONNECTORS CAN RESULT IN HAZARDOUS SITUATIONS.

1. SHOCK AND FIRE HAZARD

Incorrect wiring, the use of damaged components, presence of foreign objects (such as metal debris), and / or residue (such as cleaning fluids), can result in short circuits, overheating, and / or risk of electric shock.

Mated components should never be disconnected while live as this may result in an exposed electric arc and local overheating, resulting in possible damage to components.

2. HANDLING

Connectors and their components should be visually inspected for damage prior to installation and assembly. Suspect components should be rejected or returned to the factory for verification.

Connector assembly and installation should only be carried out by properly trained personnel. Proper tools must be used during installation and / or assembly in order to obtain safe and reliable performance.

3. USE

Connectors with exposed contacts should never be live (or on the current supply side of a circuit). Under general conditions voltages above 30 VAC and 42 VDC are considered hazardous and proper measures should be taken to eliminate all risk of transmission of such voltages to any exposed metal part of the connector.

4. TEST AND OPERATING VOLTAGES

The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage; reference values are indicated in the catalogue however these may be influenced by PC board design and / or wiring harnesses.

The test voltage indicated in the catalogue is 75% of the mean breakdown voltage; the test is applied at 500 V/s and the test duration is 1 minute.

5. CE MARKING

CE marking  means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives. CE marking  applies to complete products or equipment, **but not to electromechanical components, such as connectors.**

6. PRODUCT IMPROVEMENTS

The LEMO Group reserves the right to modify and improve to our products or specifications without providing prior notification.

7. WARNING (Prop 65 State of California)

Proposition 65 requires businesses to provide warnings to Californians about significant exposures to chemicals that cause cancer, birth defects or other reproductive harm. LEMO products are exempt from proposition 65 warnings because they are manufactured, marketed, and sold solely for commercial and industrial use.

For further information, please visit: <https://web.lemo.com/img/resources/quality/LEMO-Prop-65-compliance-declaration.pdf>

8. UL RECOGNITION

LEMO connectors are components recognized by the Underwriters Laboratories (UL), facilitating the UL approval of the complete system (including LEMO connector, cable and your equipment).

9. REACH AND ROHS

LEMO connector specifications comply with the requirements of the RoHS directive (2011/65/EU) and REACH regulation (1907/2006/EU) of the European Parliament and latest amendments. These REACH and ROHS regulations specify the restrictions of the use of hazardous substances in LEMO products marketed in Europe.

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