

HIGH SPEED MULTIPOLE CAT 6A CONNECTORS



Cat 6A connector

The high speed connectors complete the line of 2B series connector. These new contact

configuration can be used in the LEMO B, K, W or T series and are suitable for Category 6A.

Specifications:

- Transmission performance: meets Category 6A specification up to 500 MHz for 10 GigaBit Ethernet transmission according IEEE 802.3an & 2.5 Gigabit and 5 Gigabit Ethernet over Cat-5/Cat-6 twisted pair according to IEEE 802.3bz
- Push-Pull connector
- IP50 or IP68 solution
- For cable diameter from 3.2 to 9.9 mm
- Designed for AWG 22, AWG 24 and AWG 26* (* recommended cable length 60 m)

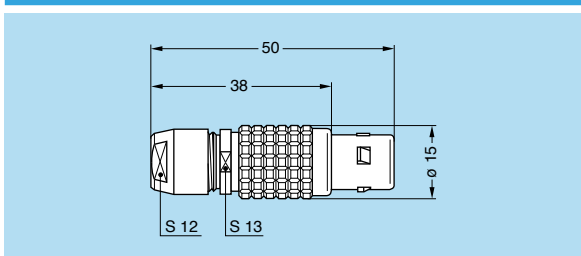
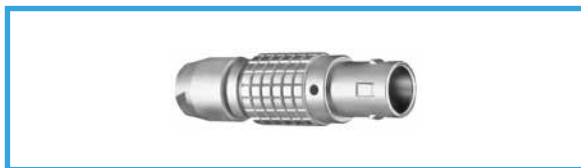
Applications:

- Industry, food processing, industrial automation
- Technical equipment in buildings
- Broadcast networks
- Data communication

These products are specifically designed to work in harsh environments of temperature extremes, humidity, and vibration

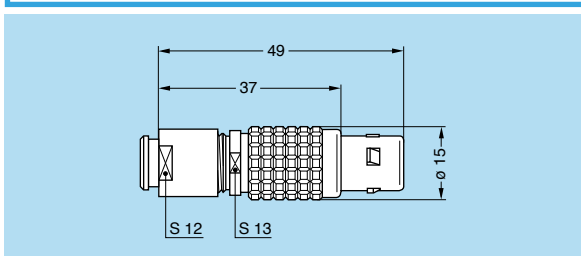
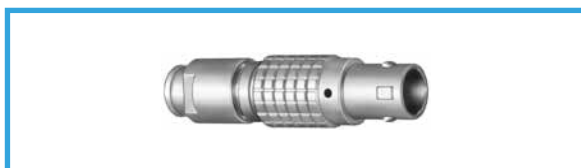


B series models



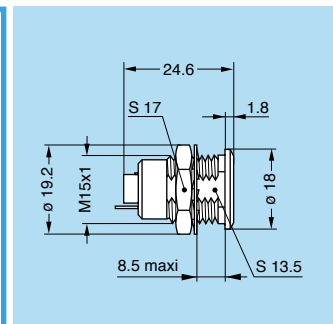
FGG.2B.514 Straight plug, key (G) or keys (A...F), cable collet

Part Number Example:
FGG.2B.514.CYCD62



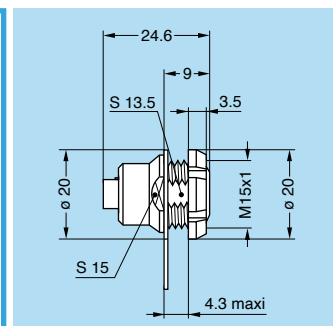
FGG.2B.514 Straight plug, key (G) or keys (A...F), cable collet and nut for fitting a bend relief

Part Number Example:
FGG.2B.514.CYCD62Z



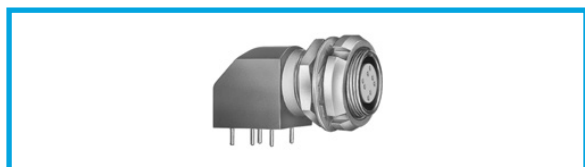
ENG.2B.514 Fixed socket with earthing tag, nut fixing, key (G) or keys (A...F)

Part Number Example:
ENG.2B.514.CYM



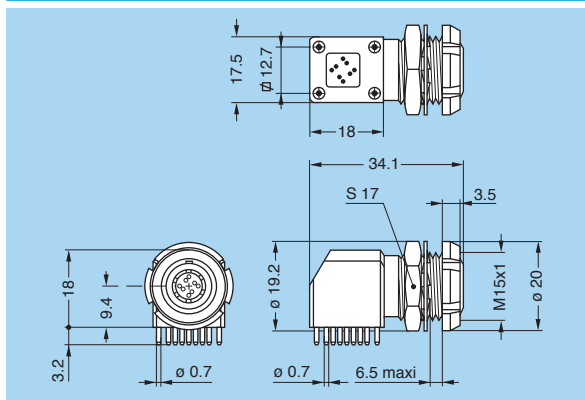
EEG.2B.514 Fixed socket, nut fixing, key (G) or keys (A...F) (back panel mounting)

Part Number Example:
EEG.2B.514.CYM

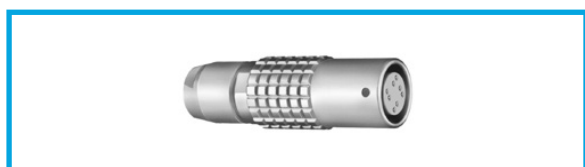


EXG.2B.514 Elbow (90°) socket for printed circuit with two nuts, key (G) or keys (A...F) (back panel mounting)

Part Number Example:
EXG.2B.514.HLN

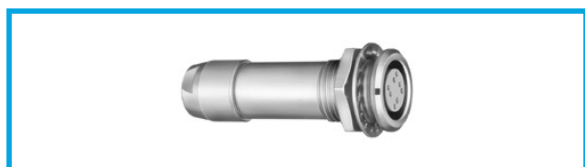
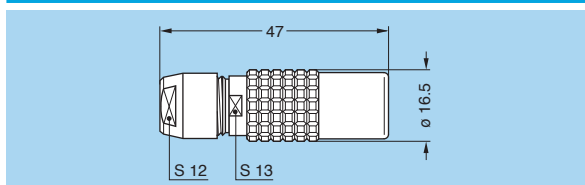


Note: the housing is made of PPS



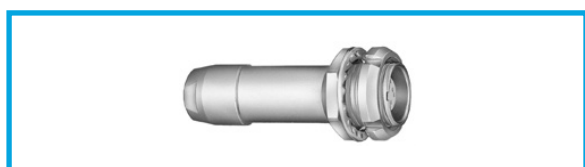
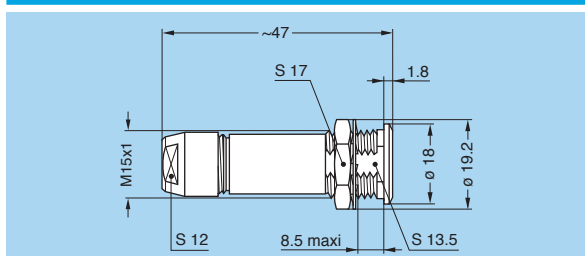
PHG.2B.514 Free socket, key (G) or keys (A...F), cable collet

Part Number Example:
PHG.2B.514.CYMD62



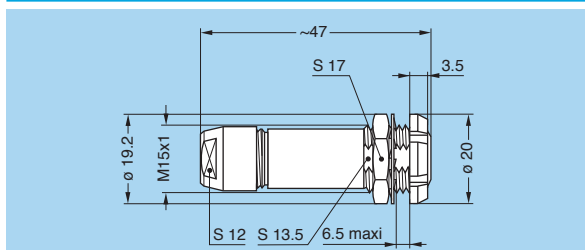
PKG.2B.514 Fixed socket, nut fixing, key (G) or keys (A...F), cable collet

Part Number Example:
PKG.2B.514.CYMD62

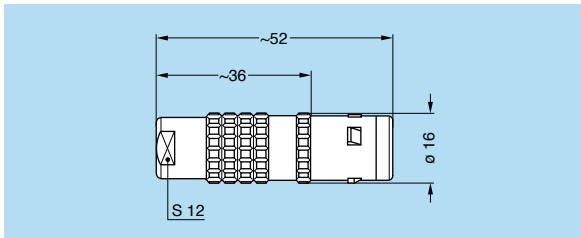
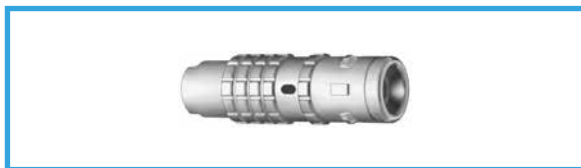


PFG.2B.514 Fixed socket, with two nuts, key (G) or keys (A...F), cable collet (back panel mounting)

Part Number Example:
PFG.2B.514.CYMD62

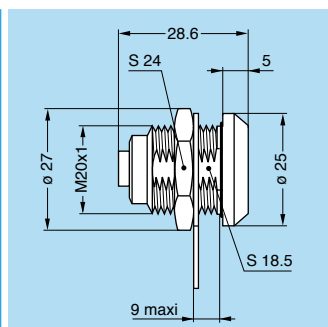


K series models



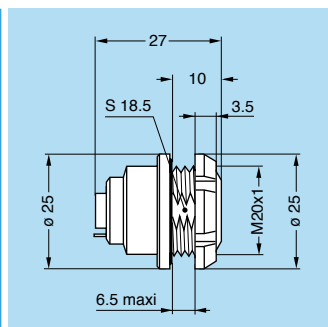
FGG.2K.514 Straight plug, key (G) or keys (A...F), cable collet

Part Number Example:
FGG.2K.514.CYCC65



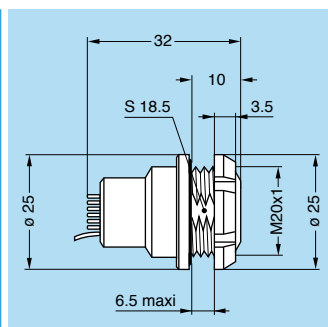
EGG.2K.514 Fixed socket, nut fixing, key (G) or keys (A...F)

Part Number Example:
EGG.2K.514.CYM



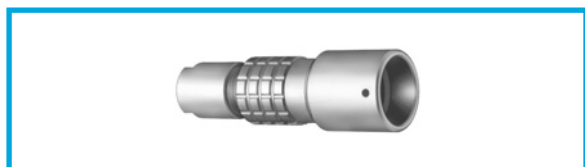
EAG.2K.514 Fixed socket, nut fixing, key (G) or keys (A...F) (back panel mounting)

Part Number Example:
EAG.2K.514.CYM



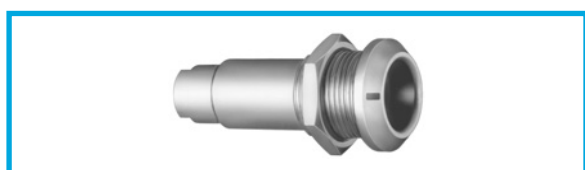
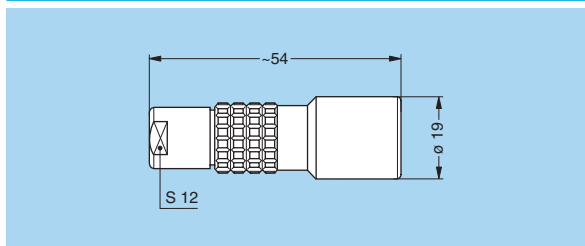
HMG.2K.514 Fixed socket with earthing tag, nut fixing, key (G) or keys (A...F), watertight or vacuumtight (back panel mounting)

Part Number Example:
HMG.2K.514.CLNPV



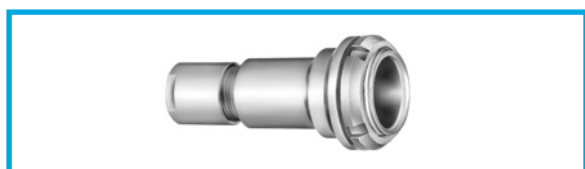
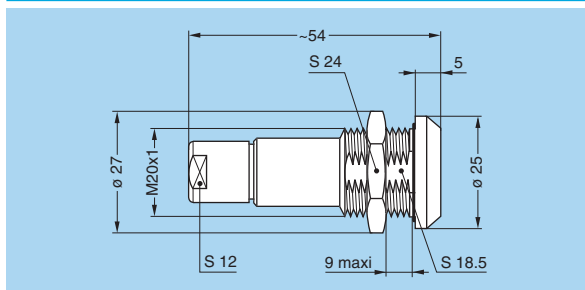
PHG.2K.514 Free socket, key (G) or keys (A...F), cable collet

Part Number Example:
PHG.2K.514.CYMC65



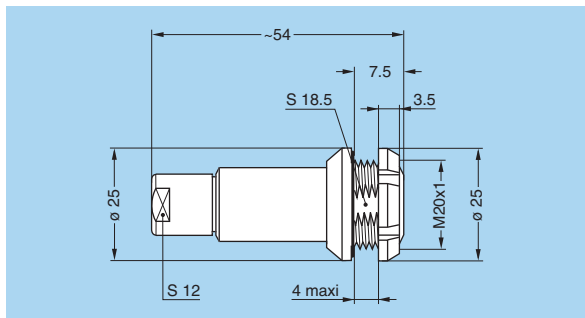
PKG.2K.514 Fixed socket, nut fixing, key (G) or keys (A...F), cable collet

Part Number Example:
PKG.2K.514.CYMC65

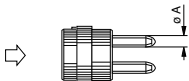
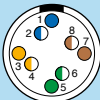


PEG.2K.514 Fixed socket, nut fixing, key (G) or keys (A...F), cable collet (back panel mounting)

Part Number Example:
PEG.2K.514.CYMC65



Insert configuration and electrical characteristics

Male crimp contacts		Female crimp contacts		Reference	Number of contacts	ø A (mm)	Crimp	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Rated current (A)
Type	Code	Type	Code							
				514	8	0.7	•	1.6	1.5	5
										

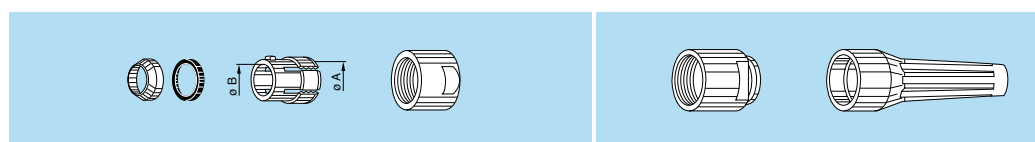
Note: CAT 6A insulators can be built into the 2B, 2K (IP68) and 2T (IP68) series.

D type collets for 2B series



Reference		Collet ø		Cable ø		Nut for fitting a bend relief	Bend relief
Type	Code	ø A	ø B	max.	min.		
D	42	4.2	–	4.2	> 3.2	FFM.2B.130.LC	GMA.2B.040.DG
D	52	5.2	–	5.2	> 4.2		GMA.2B.045.DG
D	62	6.2	–	6.2	> 5.2		GMA.2B.050.DG
D	72	7.2	–	7.2	> 6.2		GMA.2B.060.DG
D	82	8.2	–	8.2	> 7.2		GMA.2B.070.DG
D	92	9.2	8.6	9.2	> 8.2		GMA.2B.080.DG
D	99	9.9	8.6	9.9	> 9.2	1)	–

C type collets for 2K series

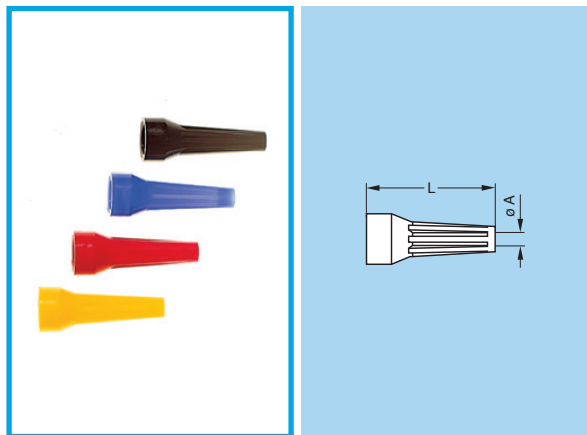


Reference		Collet ø		Cable ø		Nut for fitting a bend relief	Bend relief
Type	Code	ø A	ø B	max.	min.		
C	40	4.2	–	4.0	3.6	1)	–
C	45	5.2	–	4.5	4.1	FFM.2E.130.LC	GMA.2B.040.DG
C	50	5.2	–	5.0	4.6		GMA.2B.045.DG
C	55	6.2	–	5.5	5.1		GMA.2B.050.DG
C	60	6.2	–	6.0	5.6		–
C	65	7.2	–	6.5	6.1		GMA.2B.060.DG
C	70	7.2	–	7.0	6.6		–
C	75	8.2	8.2	7.5	7.1		GMA.2B.070.DG
C	80	8.2	8.2	8.0	7.6		GMA.2B.080.DG
C	85	9.2	8.6	8.5	8.1		GMA.2B.080.DG

Note: all dimensions are in millimetres.

1) these collets cannot be used for connector models with nut for fitting a bend relief.

Accessories



Note:
Material: Polyurethane elastomer
Temperature range in dry atmosphere: -40°C +80°C

GMA Bend relief for FGG and PHG models with nut for fitting a bend relief

Part Number	Dimensions (mm)			
	Bend relief		Cable ø	
	A	L	max.	min.
GMA.2B.040.DG	4.0	36	4.5	4.0
GMA.2B.045.DG	4.5	36	5.0	4.5
GMA.2B.050.DG	5.0	36	5.5	5.0
GMA.2B.060.DG	6.0	36	6.5	6.0
GMA.2B.070.DG	7.0	36	7.7	7.0
GMA.2B.080.DG	7.8	36	8.8	7.8

Ref.	Colour
A	blue
B	white
G	grey

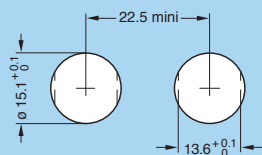
Ref.	Colour
J	yellow
M	brown
N	black

Ref.	Colour
R	red
S	orange
V	green

Note: The last letter «G» of the part number indicates the colour grey of the bend relief. For others colour, refer to the above table and replace letter «G» by the letter of the colour required.

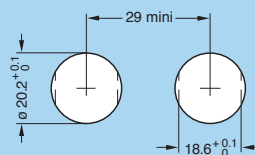
Panel cut-out B series

ENG-EEG-PKG-PFG



Panel cut-out K series

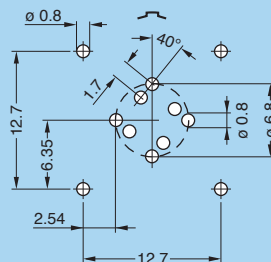
EGG-EAG-PKG-PEG



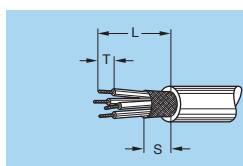
PCB drilling pattern

Fixed socket with straight print contact

EXG.2B



Cable stripping lengths

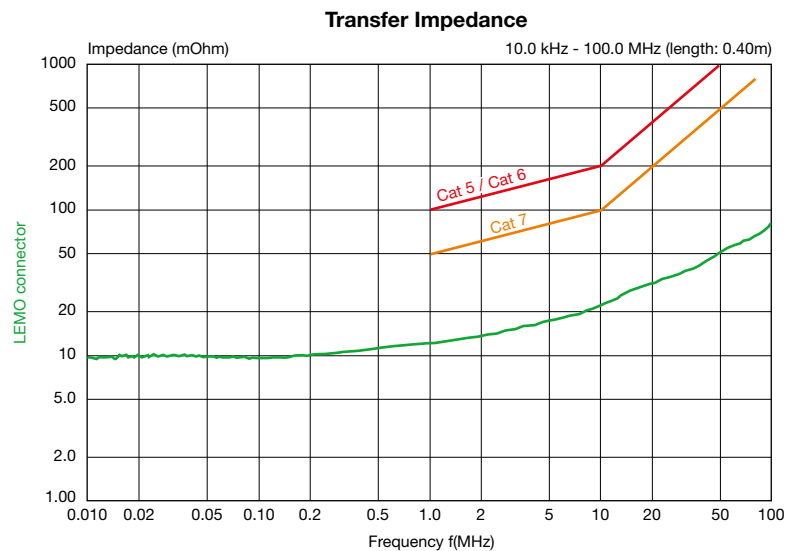
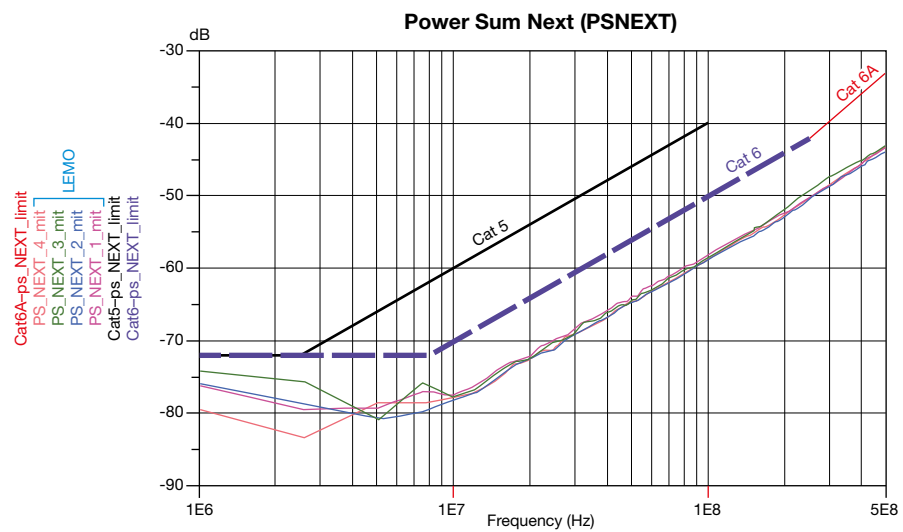
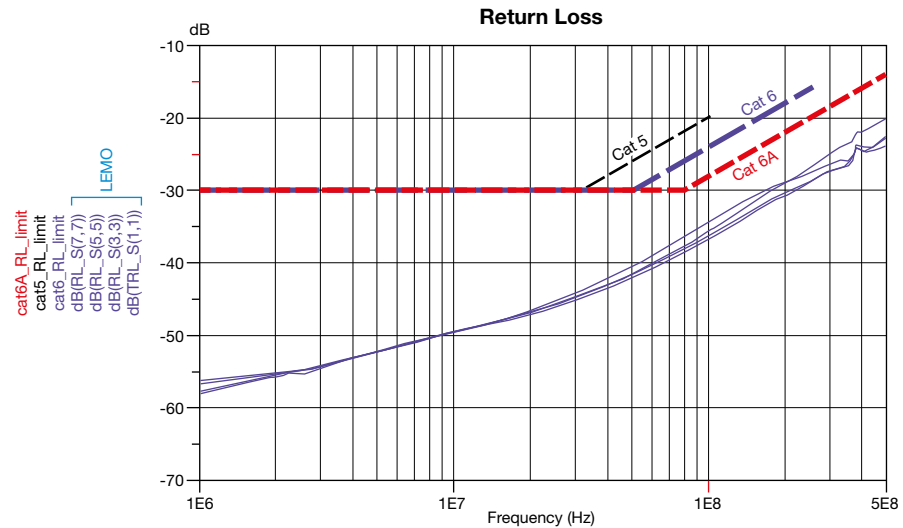


Connector	Type	ø contact (mm)	Cable stripping lengths (mm)		
			Crimp		
			L	S	T
514		0.7	14	7	4

Note: all dimensions are in millimetres. Mounting nut torque: 6.0 Nm.

Refer to B and K series catalog for general characteristics.
Also possible for deep sea connectors in the 2W series.





LEMO HEADQUARTERS

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[EGG.2K.514.CYM](#)