

# REFERENCE GUIDE

## LEMO's PLUG IDENTIFICATION GUIDE FOR A GIVEN RECEPTACLE ●



**INTRODUCTION**

This guide is designed for individuals who have a LEMO receptacle, and wish to identify its part number to obtain additional connections, or to order a plug mate. It describes the basic steps in identifying the most common LEMO part numbers for a specific LEMO connector. For additional assistance, or with help on more complex models, please contact LEMO.

**A QUICK PATH**

If you know the part number for the receptacle mate, use the Part # Search feature on the LEMO web site, and select “Find Mate” on the Product Details page.

**STEPS**

**1. Identify your LEMO receptacle**

E G G . 1 B . 3 0 5 . C L L

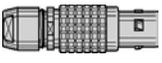
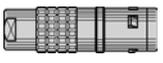
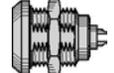
If you do not know the part number of your LEMO receptacle, consult quick reference guide: [Receptacle Identification Guide](#).

**2. Determine a mating plug**

F G G . 1 B . X X X . X X X X X X X

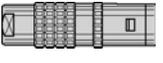
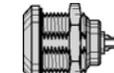
Model Size/Series

The mating models shown here are only the most common available. Additional options are shown in the [Interconnections](#) sections of LEMO catalogs and on [Connector Guide](#) page of the LEMO web site.

			
<b>FGG</b>	<b>EGG</b>	<b>FGG</b>	<b>EGG</b>
B-Series mate	B-Series	K-Series mate	K-Series

Examples

FGG.1B.XXX.XXXX	EGG.1B.XXX.XXX	FGG.2K.XXX.XXXX	EGG.2K.XXX.XXX
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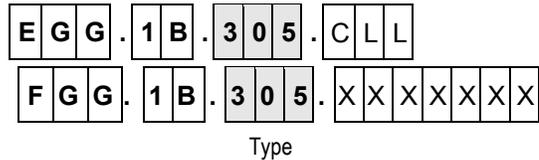
			
<b>FFA, FFP</b>	<b>ERA</b>	<b>FFA, FFP</b>	<b>ERA</b>
S-Series mate	S-Series	E-Series mate	E-Series

Examples

FFA.1S.XXX.XXXX	ERA.1S.XXX.XXX	FFA.2E.XXX.XXXX	ERA.2E.XXX.XXX
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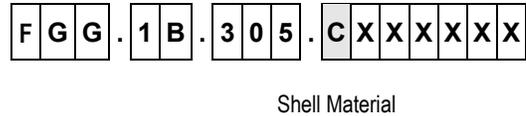
0

**3. Select the insert / contact type**



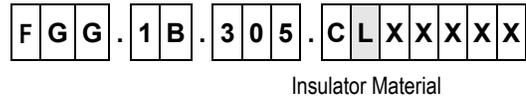
The series, size, and insert-type references for a receptacle always match the references for the mating plug. For example: receptacle EGG.1B.305.XXX mates with FGG.1B.305.XXXXXX. ('B' series, size 1, and 5 low voltages (the 3 = multipin) pins with a 'G' style keyway).

**4. Select the shell material**



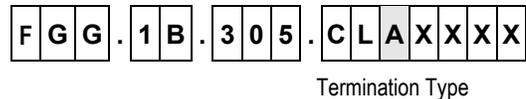
The most common shell material is brass with matte chrome plating and is indicated with the letter "C". Anodized aluminum alloy has an L designator and so on. There are many alternative choices available. Details and shell material codes can be found on the [Part Number Explanation](#) page of LEMO's web site, and catalogs.

**5. Select the insert material**



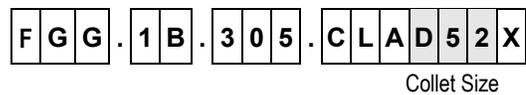
The most common insert material is 'PEEK' plastic, a pale beige in color, and is the letter 'L' (or sometimes Y). Coax inserts are most often Teflon, which is white, and indicated with the letter "T". Other insert materials are available and are indicated in a table in the catalogs. Contact LEMO if you are unable to determine the material.

**6. Select termination type**



If the contacts are terminated, inspect the connection from the wire to the contact pin. If the termination is solder, the termination is type "A". If the termination is a crimp connection, the designator is the letter "C". In a B-series connector, a female solder pin, type "L", or a crimp type "M" are possible, for reverse sex configurations (for example female contacts in a male plug). In the case of reverse sex connectors, the keyway designation must also be changed to a designator reserved for reverse sex connections, such as the 'J' keyway (see step 2 above, for the third position in the part number).

**7. Select collet size and type**



Measure the diameter of the cable to determine the collet size. On the [Part Number Explanation](#) page of LEMO's web site, and/or catalogs find the appropriate table for your size. Find the cable max and min dimension, which best describes your cable, and then look for the 'referenced type' of the collet best suited for your cable. If your connector is not terminated, measure the inside diameter of the collet to determine its size.

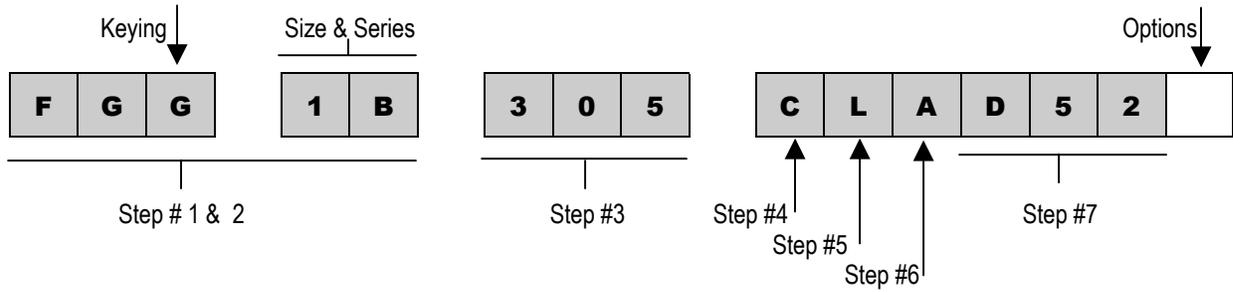
Example:

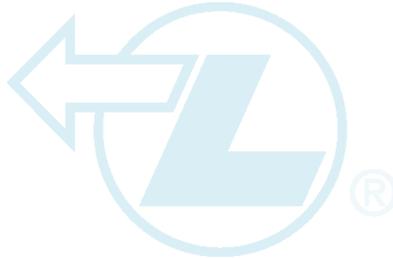
Reference		Collet $\phi$		Cable $\phi$		
Type	$\phi$	$\phi$ A	$\phi$ B	max.	min.	
<b>1B</b>	M	31	3.1	–	3.0	2.6
	D	42	4.2	–	4.0	3.1
	D	52	5.2	–	5.0	4.1
	D	62	6.2	–	6.0	5.1
	D	72	7.2	6.7	7.0	6.1
	D	76	7.6	6.7	7.5	7.1

### 8. Connector options

The last position is left for connector options available, such as a 'Z' strain relief for a plug, or an indicator for a color group.

### 9. Configure the part number for your LEMO mating plug





635 Park Court, Rohnert Park, CA 94928  
P.O. Box 2408, Rohnert Park, CA 94928-2408  
(800) 444-5366 • (707) 578-8811 • fax (707) 578-0869

[www.LemoUSA.com](http://www.LemoUSA.com) • email: [info@lemousa.com](mailto:info@lemousa.com)

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