HIGH PRESSURE CONNECTORS

SERIES



L), *[_[=|_|__*,

Precision modular connectors to suit your application

Since its creation in Switzerland in 1946 the LEMO Group has been recognized as a global leader of circular Push-Pull connectors and connector solutions. Today LEMO and its affiliated companies, REDEL and COELVER, are active in more than 80 countries with the help of over 40 subsidiaries and distributors.

Over 75000 connectors

The modular design of the LEMO range provides over 75000 connectors from miniature ø 3 mm to ø 50 mm, capable of handling cable diameters up to 30 mm and for up to 114 contacts. This vast portfolio enables you to select the ideal connector configuration to suit almost any specific requirement in most markets, including medical devices, test and measurement instruments, machinery, audio video broadcast, telecommunications and military.

LEMO's Push-Pull Self-Latching Connection System

This self-latching system is renowned worldwide for its easy and quick mating and unmating features. It provides absolute security against vibration, shock or pull on the cable, and facilitates operation in a very limited space.



UL Recognition 🔊

LEMO connectors are recognized by the Underwriters Laboratories (UL). The approval of the complete system (LEMO connector, cable and your equipment) will be easier because LEMO connectors are recognized.

CE marking $C \in$

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

RoHS

LEMO connector specifications conforms the requirements of the RoHS directive (2011/65/EU) of the European Parliament and the latest amendments. This directive specifies the restrictions of the use of hazardous substances in electrical and electronic equipment marketed in Europe.

Product safety notice & disclaimers

Please read and follow all instructions specified on the last page or on our <u>website</u> carefully and consult all relevent national and international safety regulations for your application. Improper handling, cable assembly, or wrong use of connectors can result in hazardous situations.

LEMO products and services are provided "as is." LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security.

In no event shall LEMO be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of LEMO's products.



03 Series

This series of connectors stems from the series 00 and has been specifically developed for applications where the connection must be guaranteed under very high pressure. The push-pull latching system has been replaced by a screw coupling system with watertightness maintained by compression of an O-ring in FPM (Viton[®]) according to the triangular shaped cavity principle. There are multiple application possibilities, from aerospace to the petroleum industry. After cable assembly, the rear part must be covered with an adhesive heatshrink boot in order to ensure watertightness on the cable side. 03 series connectors provide the following main features:

- coaxial 50 Ω type
- multipole with 2, 3, 4 or 6 contacts
- 360° screening for full EMC shielding
- rugged housing for extreme working conditions
 working pressure that can exceed 60 bars in mated conditions



Part Numbering System



FVG.03.302.CLAC27 = straight plug with key (G) and cable collet, 03 series, multipole type with 2 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, C type collet for 2.7 mm diameter cable.

PVG.03.302.CLLC27 = free socket with key (G) and cable collet, 03 series, multipole type with 2 contacts, outer shell in chrome-plated brass, PEEK insulator, female solder contacts, C type collet for 2.7 mm diameter cable.

HVG.03.302.CLLPV = fixed socket, nut fixing, with key (G), 03 series, multipole type with 2 contacts, outer shell in chrome-plated brass, PEEK insulator, female solder contacts, sealed with Araldite[®] epoxy resin.

Part Section Showing Internal Components (multipole)





Technical Characteristics Mechanical and Climatical

Characteristics Value Standard Endurance > 1000 cycles | IEC 60512-5 test 9a up to 95% at 60° C Humidity -20° C, +200° C Temperature range IEC 60512-6 test 11f Salt spray corrosion test 5) > 1000 h Protection index 2) > IP68 IEC 60529 Resistance to hydrostatic ~ 60 bars 1) IEC 60512-7 test 14d pressure 2) **Climatical category** 20/200/21 IEC 60068-1

Note:

¹⁾ in order to perform correctly and withstand the pressure, cable assembly shall be made according to instruction we recommand. See page 12. ²⁾ For mated plug and socket.

³⁾ after humidity test: 21 days at 95% RH according to IEC 60068-2.

FVG Straight plug, key (G) or key (B), cable collet



Models (multipole type)

Electrical

Characteristics		Value	Standard	Section
Insulation resistance (new)		> 10 ¹² Ω	IEC 60512-2	test 3a
Insulation resistance 3)		> 10 ¹⁰ Ω	IEC 60512-2	test 3a
Shell electrical continuity		5.0 mΩ	IEC 60512-2	test 2f
Shielding	at 10 MHz	> 100 dB	IEC 60169-1-3	
efficiency	at 1 GHz	> 80 dB	IEC 60169-1-3	
Contact resistance 4)	ø A = 0.5 mm	≤ 8.7 mΩ	IEC 60512-2	test 2a
	ø A = 0.7 mm	≤ 6.1 mΩ	IEC 60512-2	test 2a

Note:

⁴⁾ after 5000 mating cycles and the salt spray test according to IEC 60512-6 test 11 f.

⁵⁾ for chrome plated product («C» material code).

Part number	Cable ø (mm)	
Part number	min.	max.
FVG.03.30•.CLAC17	1.5	1.7
FVG.03.30•.CLAC20	1.8	2.0
FVG.03.30•.CLAC23	2.1	2.3
FVG.03.30.CLAC27	2.4	2.6
FVG.03.30e.CLAC31	2.7	3.0

Note: • = insert configuration (page 9)

FVG Straight plug, key (G) or key (B), cable collet and nut for fitting a bend relief



Part number	Cable ø (mm)	
Part number	min.	max.
FVG.03.30•.CLAC17Z	1.5	1.7
FVG.03.30•.CLAC20Z	1.8	2.0
FVG.03.30e.CLAC23Z	2.1	2.3
FVG.03.30•.CLAC27Z	2.4	2.6
FVG.03.30e.CLAC31Z	2.7	3.0

Note: \bullet = insert configuration (page 9). The bend relief must be ordered separately (page 10)

FVG Straight plug, key (G) or key (B) and oversize cable collet



Part number	Cable ø (mm)	
Part number	min.	max.
FVG.03.30.CLAK35	3.1	3.5
FVG.03.30.CLAK40	3.6	4.0
FVG.03.30.CLAK45	4.1	4.5
FVG.03.30.CLAK50	4.6	5.0

Note: \bullet = insert configuration (page 9) Correspond to K type of collet. Also available with nut for fitting a bend relief.

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FVG Straight plug, key (G) for cable crimping



Part number	Cable ø (mm) max.
FVG.03.30.CLAE44	4.3
FVG.03.30.CLAE52	5.1

Note: • = insert configuration (page 9)

PVG Free socket, key (G) and cable collet



	Cable ø (mm)	
Part number	min.	max.
PVG.03.30.CLLC17	1.5	1.7
PVG.03.30•.CLLC20	1.8	2.0
PVG.03.30•.CLLC23	2.1	2.3
PVG.03.30.CLLC27	2.4	2.6
PVG.03.30e.CLLC31	2.7	3.0

Note: • = insert configuration (page 9)

PVG Free socket, key (G), cable collet and nut for fitting a bend relief



Destauraher	Cable ø (mm)	
Part number	min.	max.
PVG.03.30•.CLLC17Z	1.5	1.7
PVG.03.30•.CLLC20Z	1.8	2.0
PVG.03.30•.CLLC23Z	2.1	2.3
PVG.03.30.CLLC27Z	2.4	2.6
PVG.03.30e.CLLC31Z	2.7	3.0

Note: • = insert configuration (page 9). The bend relief must be ordered separately (page 10)

PVG Free socket, key (G) and oversize cable collet



Part number	Cable ø (mm)	
Fait number	min.	max.
PVG.03.30e.CLLK35	3.1	3.5
PVG.03.30.CLLK40	3.6	4.0
PVG.03.30e.CLLK45	4.1	4.5
PVG.03.30.CLLK50	4.6	5.0

Note: \bullet = insert configuration (page 9) Correspond to K type of collet. Also available with nut for fitting a bend relief.



Vacuumtight models (multipole type)

These sockets 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.

These models are identified by a letter «P» or «S» at the last but one character of the reference. The Stycast[®] sealant can be used over a larger temperature range than the Araldite[®] sealant. Vaccumtight models are identified by an additional letter «V» at the end of the part number (certificate on request). Epoxy

resin is used to seal these models.

Technical Characteristics

Mechanical and Climatical

Characteristics	Value	Standard
Endurance	> 1000 cycles	IEC 60512-5 test 9a
Humidity	up to 95% at 60° C	
Temperature range	-20° C, +100° C	
Salt spray corrosion test 3)	> 1000 h	IEC 60512-6 test 11f

Characteristics	Value	Standard
Climatical category	20/80/21	IEC 60068-1
Leakage rate (He) 1)	< 10 ⁻⁷ mbar.l.s ⁻¹	IEC 60512-7 test 14b
Max. operating pressure 2)	60 bars	IEC 60512-7 test 14d

Note:

¹⁾ only for vacuumtight models.
 ²⁾ this value corresponds to the maximum allowed pressure difference for the assembled socket.

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

Fixed socket, key (G) or key (B), round flange, nut fixing, vacuumtight HVG



HWG Fixed socket, key (G), hexagonal flange, nut fixing, vacuumtight



Fixed socket, key (G), hexagonal flange, nut fixing, no flats on fixing thread, vacuumtight HRG

	$\begin{array}{c} 22 \\ 5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$
--	---

Part number	Sealing resin
HRG.03.30.CLLPV	Araldite®
HRG.03.30.CLLSV	Stycast®

Panel cut-out (page 12)

Note: \bullet = insert configuration (page 9)

Fixed socket, key (G), nut fixing, long shell HTG





Panel cut-out (page 12)

Note: • = insert configuration (page 9)

Models (coaxial type)

Characteristics

Insulation resistance (new)

Insulation resistance 3)

Technical Characteristics

Mechanical and Climatical

Characteristics	Value	Standard	
Endurance	> 1000 cycles	IEC 60512-5 test 9a	
Humidity	up to 95% at 60° C		
Temperature range	-20° C, +200° C		
Salt spray corrosion test 5)	> 1000 h	IEC 60512-6 test 11f	
Protection index ²⁾	> IP68	IEC 60529	
Resistance to hydrostatic pressure ²⁾	~ 60 bars ¹⁾	IEC 60512-7 test 14d	
Climatical category	20/200/21	IEC 60068-1	

Note:
 ¹⁾ in order to perform correctly and withstand the pressure, cable assembly shall be made according to instruction we recommand. See page 12.
 ²⁾ for mated plug and socket.
 ³⁾ after humidity test: 21 days at 95% RH according to IEC 60068-2.

Straight plug, cable collet **FVN**



Part number	Cable group
FVN.03.250.CLAC27	4
FVN.03.250.CLAC31	3
	3

Cable assembly (page 12)

Straight plug, cable collet and nut for fitting a bend relief **FVN**



Part number	Cable group
FVN.03.250.CLAC27Z	4
FVN.03.250.CLAC31Z	3

Note: \bullet = insert configuration (page 9). The bend relief must be ordered separately (page 10)

Shell electrical continuity		5.0 mΩ	IEC 60512-2	test 2f
Shielding efficiency	at 10 MHz	> 100 dB	IEC 60169-1-3	
	at 1 GHz	> 80 dB	IEC 60169-1-3	
Contact	ø A = 0.5 mm	≤ 8.7 mΩ	IEC 60512-2	test 2a
resistance ⁴⁾	ø A = 0.7 mm	≤ 6.1 mΩ	IEC 60512-2	test 2a
Max. working frequency		500 MHz	For coaxial type	

Value

 $> 10^{12} \Omega$

 $> 10^{10} \Omega$

Standard

IEC 60512-2

IEC 60512-2

Section

test 3a

test 3a

Electrical

Note: ⁴⁾ after 5000 mating cycles and the salt spray test according to IEC 60512-6 test 11 f.

⁵⁾ for chrome plated product («C» material code).







Straight plug for cable crimping FVS



Part number	Cable group
FVS.03.250.CLAE24	1
FVS.03.250.CLCE24	1
FVS.03.250.CLCE31	3-4

FVR Straight plug with brazing ferrule



Part number	Cable ø (mm)
Fait number	max.
FVR.03.250.SLAV16B	1.55
FVR.03.250.SLAV20B	1.95

Cable assembly (page 12)

Note: The shell of the connector is in stainless steel AISI 316L.

PVN Free socket and cable collet



Part number	Cable group	
PVN.03.250.CLLC27	4	
PVN.03.250.CLLC31	3	

Cable assembly (page 12)

Note: Also available with nut for fitting a bend relief (page 10).





These sockets 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.

These models are identified by a letter «P» or «S» at the last but one character of the reference. The Stycast[®] sealant can be used over a larger temperature range than the Araldite[®] sealant. All these models are available in a watertight or vacuumtight version. Vaccumtight models are identified by an additional

letter «V» at the end of the part number (certificate on request). Epoxy resin is used to seal these models.

Technical Characteristics

Mechanical and Climatical

Characteristics	Value	Standard	
Endurance	> 1000 cycles IEC 60512-5 test 9a		
Humidity	up to 95% at 60° C		
Temperature range	-20° C, +100° C		
Salt spray corrosion test 3)	> 1000 h	IEC 60512-6 test 11f	

Characteristics	Value	Standard
Climatical category	20/80/21	IEC 60068-1
Leakage rate (He) 1)	< 10 ⁻⁷ mbar.l.s ⁻¹	IEC 60512-7 test 14b
Max. operating pressure ²⁾	60 bars	IEC 60512-7 test 14d

Note:

¹⁾ only for vacuumtight models.
 ²⁾ this value corresponds to the maximum allowed pressure difference

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

Fixed socket, hexagonal flange, nut fixing, vacuumtight HVR



Part number	Sealing resin
HVR.03.250.CLLPV	Araldite®
HVR.03.250.CLLSV	Stycast®

Panel cut-out (page 12)

HVP Fixed socket, round flange, nut fixing, vacuumtight



Part number	Sealing resin		
HVP.03.250.CLLPV	Araldite®		
HVP.03.250.CLLSV	Stycast®		
Panel cut-out (page 12)			

HVL Free socket, for device overmolding







HVW Free socket, for device overmolding, large shell



Alignment Key

Alignment Key and Polarized Keying System for Multipole Types

03 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	An Nb of keys		Nb of	Angles	Series	Conta	ct type
			Ang	03	Plug	Socket	
	G	1		0°	male	female	
•	В	2	α	60°	male	female	



Insert configuration

Coaxial, multipole

	Lie Solder contacts	Female solder contacts	Reference	Series	Contact ø (mm)	Cable group	AWG max.	Impedance (Ω)	Test voltage (kV rms) ¹⁾ Contact-contact	Test voltage (kV rms) ¹⁾ Contact-shell	Rated current (A) ¹⁾
1	Coaxial	\bigcirc	250	03	0.7	1-3-4	-	50	2.1	2.10	4.0
2	Multipole	8	302	03	0.5	-	30	_	1.0	0.95	5.0
3	Multipole		303	03	0.5	-	30	_	0.8	0.95	3.0
4	Multipole		304	03	0.5	-	30	_	0.8	0.95	2.0
6	Multipole		306	03	0.35	-	30	_	0.7	0.95	1.7

Note: ¹⁾ Test voltage measured according to IEC 60512-2 test 4a standard.



Bend relief for models with collet (need to be ordered)

	N N N	Dimensio	ons (mm)				
Collet type	Need to be ordered separately	Cable ø					
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	coparatory	min.	max.				
	GMA.00.012.DG	1.1	1.4				
	GMA.00.018.DG	1.8	2.1				
С	GMB.00.025.DG	2.5	2.8				
C	GMB.00.028.DG	2.8	3.1				
	GMD.00.025.DG	2.5	2.8				
	GMD.00.028.DG	2.8	3.1				

Note: The «GMD» are thin bend reliefs (for very flexible cables). The last letter «G» of the part number indicates the grey colour of the bend relief.

Accessories

For accessories and tooling, please contact us.

Collet	Need to be ordered	Dimensions (mm) Cable ø		
type	separately			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		min.	max.	
	GMA.0B.030.DG	3.0	3.4	
к	GMA.0B.035.DG	3.5	3.9	
ĸ	GMA.0B.040.DG	4.0	4.4	
	GMA.0B.045.DG	4.5	5.2	

Tooling

DCG Spanner for hexagonal nut



Part number	Part number of the nut					
DCG.91.149.0TN	GEA.00.240.LN					
Material: Blackened steel						

DCP Flat spanners for collet nut



DPE Crimping tool with die (coaxial connectors)



DPN Dies



Port number							
	Part number	L	М	N	S1		
	DCP.99.045.TC	70	2	10.5	4.5		
	DCP.99.050.TC	78	2	12.6	5.0		
	DCP.99.055.TC	78	2	12.6	5.5		
	DCP.99.060.TC	78	2	12.6	6.0		

Dimensions

Material: Chrome-plated steel

Part number

Part number	Cable group		
DPE.99.123.1K	1		
DPE.99.123.8K	2-3-4		

	Cable group	Die dimension					
Part number		Fc	or conta	For shield			
		Α	В	L	А	В	
DPN.99.123.1K	1	1.29	0.91	2.0	3.10	2.70	
DPN.99.123.8K	2-3-4	1.29	0.91	2.0	3.80	3.30	

Dies material: Blackened steel



Panel cut-outs

Panel Cut-outs



Cable assembly

Assembly instructions

In order to ensure the sealing of plugs and sockets on the cable side, it is imperatively necessary to complete their assembly by realizing it with an adapted technique.

We recommend the fitting of an heatshrink boot with inner melting coating of type ATUM (manufactured by the RAYCHEM company) or similar.

This heatshrink boot is not provided with the connector. Please consult us.

Cable stripping lengths



Note: the tolerances on these dimensions are: L: ± 0.5 mm; S: ± 0.5 mm; T: ± 0.2 mm. ¹⁾ for FVG model with cable crimping.

Recommended coaxial cables

Recommended cables for coaxial types

Cable		Standard		Reference	lmp. (Ω)	
group	MIL-C-17	IEC 96-2	CCTU 10-01A	Relerence		
3	RG.174 A/U	50.2.1	KX 3A	CCX.50.RG1.74AU27N	50 . 0.0	
3	RG.174 A/U	50.2.1	KX 38	CCX.50.RG1.74U25N	50 ± 2 Ω	
1	RG.178 B/U	50.1.1	KX 21A	CCX.50.RG1.78BU18M	50 ± 2 Ω	
4	RG.188 A/U	50.2.3		CCX.50.RG1.88AU24B	50 ± 2 Ω	
1	RG.196 A/U	50.1.2		CCX.50.RG1.96AU20B	50 ± 2 Ω	
4	RG.316 /U	50.2.2	KX 22A	CCX.50.RG3.16BU26M	50 ± 2 Ω	

Product safety notice

PLEASE READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY AND CONSULT ALL RELEVENT 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 catalog however these may be influenced by PC board design and / or wiring harnesses. The test voltage indicated in the catalog 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 $\mathbf{C}\mathbf{\epsilon}$

CE marking **C** means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives.

CE marking CE 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://www.lemo.com/quality/LEMO-Prop-65-compliance-declaration.pdf.

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