







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.

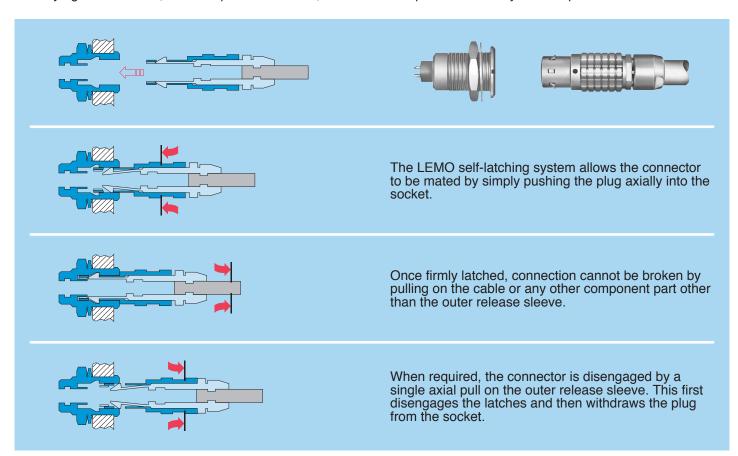
Over 75000 connectors

The modular design of the LEMO range provides over 75000 connectors from miniature \emptyset 3 mm to \emptyset 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 (not shown in this catalogue)

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€

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.

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.

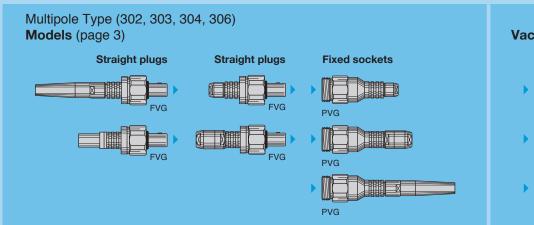


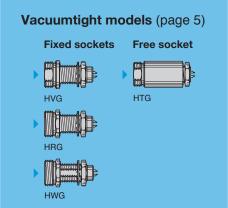
03 Series

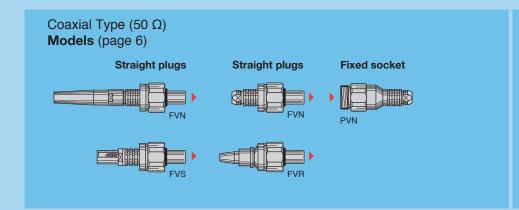
This series of connectors stems from the series 00 and has been specifically developed for applications where the connection must be guaranteed under very high pressure. The push-pull latching system has been replaced by a screw coupling system with watertightness maintained by compression of an O-ring in FPM (Viton®) according to the triangular shaped cavity principle. There are multiple application possibilities, from aerospace to the petroleum industry.

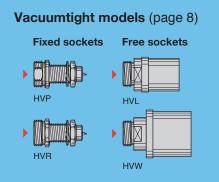
After cable assembly, the rear part must be covered with an adhesive heatshrink boot in order to ensure watertightness on the cable side. 03 series connectors provide the following main features:

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



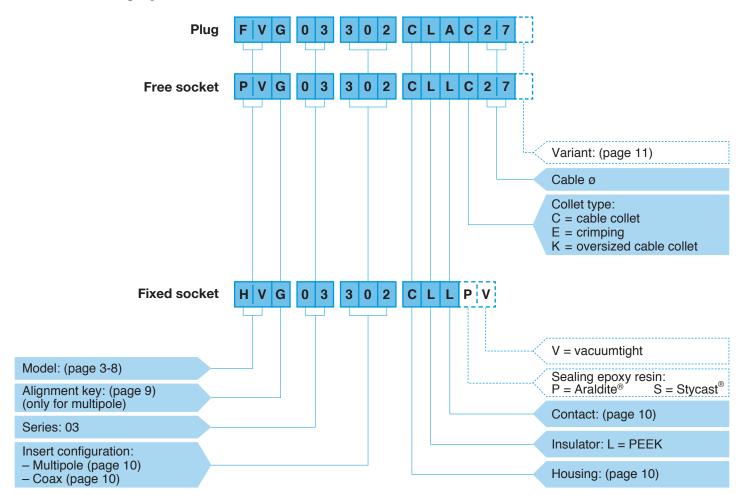








Part Numbering System

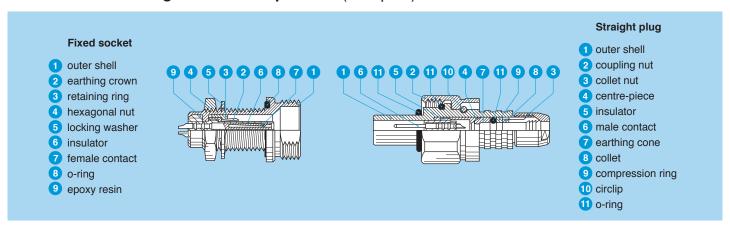


FVG.03.302.CLAC27 = straight plug with key (G) and cable collet, 03 series, multipole type with 2 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, C type collet for 2.7 mm diameter cable.

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)





Models (multipole type)

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	> 144 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:

Electrical

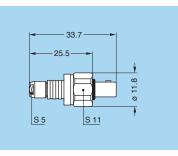
Characte	eristics	Value	Standard	Section
Insulation resista	ance (new)	$> 10^{12} \Omega$	IEC 60512-2	test 3a
Insulation resista	ance ³⁾	$> 10^{10} \Omega$	IEC 60512-2	test 3a
Shell electrical c	ontinuity	5.0 mΩ	IEC 60512-2	test 2f
Shielding	at 10 MHz	> 100 dB	IEC 60169-1-3	
efficiency	at 1 GHz	> 80 dB	IEC 60169-1-3	
Contact	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

Note:

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

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



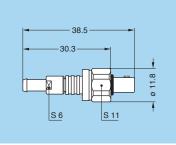


Dowl wyweb an	Cable ø (mm)	
Part number	min.	max.
FVG.03.30•.CLAC27	2.4	2.6
FVG.03.30•.SLAC27	2.4	2.6
FVG.03.30 • . CLAC31	2.7	3.0
FVG.03.30•.SLAC31	2.7	3.0

Note: • = insert configuration (page 10)

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



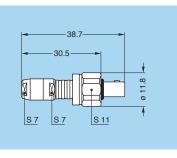


Part number	Cable ø (mm)	
rait number	min.	max.
FVG.03.30•.CLAC27Z	2.4	2.6
FVG.03.30•.SLAC27Z	2.4	2.6
FVG.03.30•.CLAC31Z	2.7	3.0
FVG.03.30•.SLAC31Z	2.7	3.0

Note: ● = insert configuration (page 10).
The bend relief must be ordered separately (page 11)

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: ● = insert configuration (page 10)
Correspond to K type of collet. Also available with nut for fitting a bend relief.

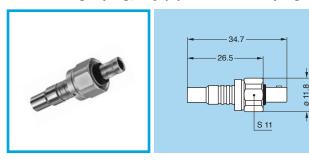
3

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.

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



FVG Straight plug, key (G) for cable crimping

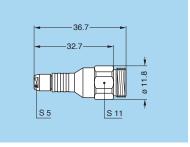


Part number	Cable ø (mm) max.
FVG.03.30•.CLAE44	4.3
FVG.03.30•.SLAE44	4.3
FVG.03.30•.CLAE52	5.1
FVG.03.30•.SLAE52	5.1

Note: • = insert configuration (page 10)

PVG Free socket, key (G) and cable collet



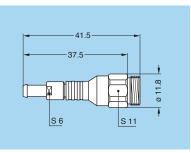


Part number	Cable	Cable ø (mm)	
Part number	min.	max.	
PVG.03.30 • . CLLC27	2.4	2.6	
PVG.03.30•.CLLC31	2.7	3.0	

Note: ● = insert configuration (page 10)

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



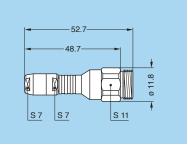


Doub words on	Cable ø (mm)	
Part number	min.	max.
PVG.03.30•.CLLC27Z	2.4	2.6
PVG.03.30 • . CLLC31Z	2.7	3.0

Note: ● = insert configuration (page 10).
The bend relief must be ordered separately (page 11)

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





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

Note: ● = insert configuration (page 10)
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,

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

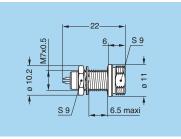
Characteristics	Value	Standard
Endurance	> 1000 cycles	IEC 60512-5 test 9a
Humidity	up to 95% at 60° C	
Temperature range	-20° C, +100° C	
Salt spray corrosion test	> 144h	IEC 60512-6 test 11f

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.

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





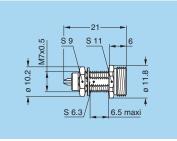
Part number	Sealing resin
HVG.03.30●.CLLPV	Araldite®
HVG.03.30●.SLLPV	Araldite®
HVG.03.30•.CLLSV	Stycast®
HVG.03.30●.SLLSV	Stycast®

Panel cut-out (page 11)

Note: ● = insert configuration (page 10)

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





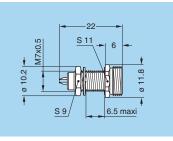
Part number	Sealing resin
HWG.03.30•.CLLPV	Araldite®
HWG.03.30•.CLLSV	Stycast [®]

Panel cut-out (page 11) Note: ● = insert

configuration (page 10)

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





	_
Part number	Sealing resin
HRG.03.30●.CLLPV	Araldite®
HRG.03.30●.SLLPV	Araldite®
HRG.03.30•.CLLSV	Stycast [®]
HRG.03.30⊕.SLLSV	Stycast®

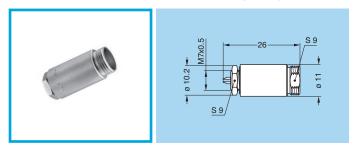
Panel cut-out (page 11)

Note: • = insert configuration (page 10)

5



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



Part number	Sealing resin
HTG.03.30e.CLLSV	Stycast®

Panel cut-out (page 11) Note: ● = insert configuration (page 10)



Models (coaxial type)

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	> 144 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:

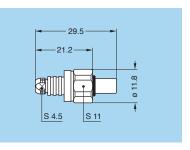
Electrical

Characte	eristics	Value	Standard	Section
Insulation resista	ince (new)	$> 10^{12} \Omega$	IEC 60512-2	test 3a
Insulation resista	ınce ³⁾	$> 10^{10} \Omega$	IEC 60512-2	test 3a
Shell electrical co	ontinuity	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	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 fre	quency	500 MHz	For coaxial type	

Note:
3) after humidity test: 21 days at 95% RH according to IEC 60068-2.
4) after 5000 mating cycles and the salt spray test according to IEC 60512-6 test 11 f.

FVN Straight plug, cable collet





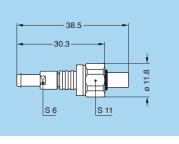
Part number	Cable group	
FVN.03.250.CLAC27	4	
FVN.03.250.SLAC27	4	
FVN.03.250.CLAC31	3	
FVN.03.250.SLAC31	3	

Cable assembly (page 12)

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

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





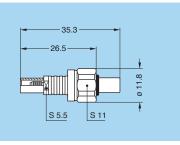
Part number	Cable group	
FVN.03.250.CLAC27Z	4	
FVN.03.250.SLAC27Z	4	
FVN.03.250.CLAC31Z	3	
FVN.03.250.SLAC31Z	3	

Cable assembly (page 12)

Note: The bend relief must be ordered separately (page 11).

FVS Straight plug for cable crimping



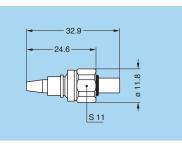


Part number	Cable group	
FVS.03.250.CLAE24	1	
FVS.03.250.CLCE24	1	
FVS.03.250.CLCE31	3-4	

Cable assembly (page 12)

FVR Straight plug with brazing ferrule





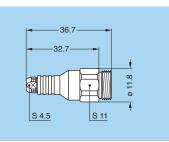
Part number	Cable ø (mm) max.
FVR.03.250.SLAV16B	1.55
FVR.03.250.SLAV20B	1.95

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 11).





Vacuumtight models (coaxial 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,

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

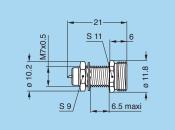
Characteristics	Value	Standard
Endurance	> 1000 cycles IEC 60512-5 test 9a	
Humidity	up to 95% at 60° C	
Temperature range	-20° C, +100° C	
Salt spray corrosion test	> 144h	IEC 60512-6 test 11f

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.

Fixed socket, hexagonal flange, nut fixing, vacuumtight HVR



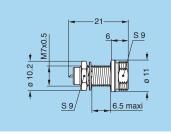


Part number	Sealing resin
HVR.03.250.CLLPV	Araldite®
HVR.03.250.SLLPV	Araldite®
HVR.03.250.CLLSV	Stycast®
HVR.03.250.SLLSV	Stycast [®]

Panel cut-out (page 11)

Fixed socket, round flange, nut fixing, vacuumtight



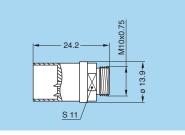


Part number	Sealing resin
HVP.03.250.CLLPV	Araldite®
HVP.03.250.CLLSV	Stycast®

Panel cut-out (page 11)

HVL Free socket, for device overmolding

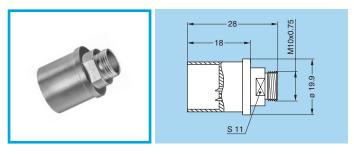




Part number HVL.03.250.NLL



HVW Free socket, for device overmolding, large shell





Note: Vacuumtightness is achieved after customer overmolding.



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

	Insert configuration	
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Coaxial, multipole

	Male solder contacts	Male solder contacts Female solder contacts		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		250	03	0.7	1-3-4	-	50	2.1	2.10	4.0
2	Multipole	00	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.



Ref.	Outer shell a	Outer shell and collet nut		Latch sleeve + earthing crown		Other metallic components Remarks		Note
	Material	Surf. treatment	Material	Surf. treatment	Material	Surf. treatment		
С	Brass	chrome	brass/bronze	nickel	brass	nickel	For multipole and coaxial	•
S	Stainless steel	-	brass/bronze	nickel	brass	nickel	For multipole and coaxial	0

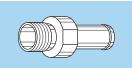
Note: detailed characteristics of these materials and treatments are presented in the Unipole-Multipole catalogue.

- First choice alternativeSpecial order alternative

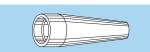
Ref.	Contact type	Remarks	
Α	Male solder	For multipole and coaxial	
С	Male crimp	For coaxial	
L	Female solder	For multipole or coaxial type sockets	



Bend relief for models with collet



Need to be ordered



	Ref.	Co	llet
	ď	Туре	Code
٦		С	27
	Z	С	31
_		С	27
		С	31
		K	35
	z	K	40
		K	45
		K	50

03

	Dim. (mm)		
Need to be ordered separately	Cable ø		
ooparatory	max.	min.	
GMB.00.025.DG	2.8	2.5	
GMB.00.028.DG	3.1	2.8	
GMD.00.025.DG	2.8	2.5	
GMD.00.028.DG	3.1	2.8	
GMA.0B.030.DG	3.4	3.0	
GMA.0B.035.DG	3.9	3.5	
GMA.0B.040.DG	4.4	4.0	
GMA.0B.045.DG	5.2	4.5	

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.

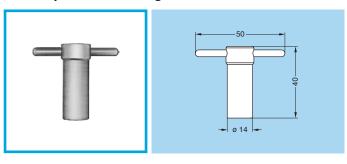
Accessories

For accessories and tooling, please contact us.



Tooling

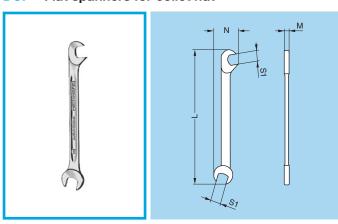
DCG Spanner for hexagonal nut



Part number	Part number of the nut
DCG.91.149.0TN	GEA.00.240.LN

Material: Blackened steel

DCP Flat spanners for collet nut



Dort number	Dimensions				
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	

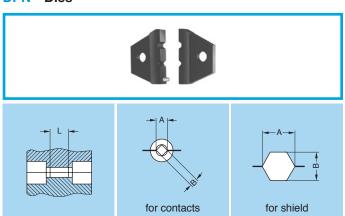
Material: Chrome-plated steel

DPE Crimping tool with die (coaxial connectors)



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

DPN Dies



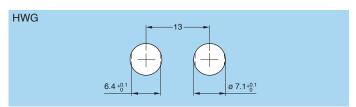
	Cable group	Die dimension				
Part number		For contacts			For shield	
		Α	В	L	Α	В
DPN.99.123.1K	1	1.29	0.91	2.0	3.10	2.70
DPN.99.123.8K	2-3-4	1.29	0.91	2.0	3.80	3.30

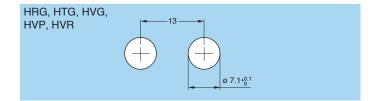
Dies material: Blackened steel



Panel cut-outs

Panel Cut-outs





Mounting nuts torque

Component	Torque (Nm)	
Retaining nut	0.25	
Hexagonal nut	2.00	
Coupling nut	2.00	

1N = 0.102 kg

Cable assembly

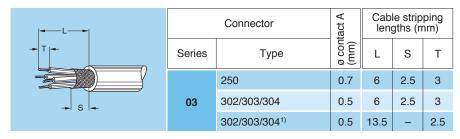
Assembly instructions

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: \pm 0.5 mm; S: \pm 0.5 mm; T: \pm 0.2 mm. ¹⁾ for FVG model with cable crimping.

Recommended coaxial cables

Recommended cables for coaxial types

	Cable	Standard			Reference	Imp.			
	group	MIL-C-17	IEC 96-2	CCTU 10-01A	neielelice	(Ω)			
	3	RG.174 A/U	50.2.1	KX 3A	CCX.50.RG1.74AU27N	50 ± 2 Ω			
	3			KX 38	CCX.50.RG1.74U25N				
	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 INSTUCTIONS 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

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 CE

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. MARNING (Prop 65 State of California)

This product may contain one or more substances or chemicals known to the state of California to cause cancer.

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