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HIGH PRESSURE CONNECTORS W SERIES

al E





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 50'000 connectors

The modular design of the LEMO range provides over 50'000 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 (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 approved.

CE marking $C \in$

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

RoHS

LEMO connector specifications exceed the requirements of the RoHS directives (2002/95/EC) 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. LEMO guarantees that its connectors are free of mercury, cadmium, lead, hexavalent chromium and polybromide biphenyl (PBB), polybromide diphenyl ether (PBDE), or DecaBDE.



W Series

W Series connectors have been developed for utilisation where protection must be guaranteed under high pressures of liquids. The basic elements, insulators, contacts and clamping system are from the B series. 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 ranging from nuclear physics to the petroleum industry. After cable assembly, the rear part must be covered by an adhesive heatshrink boot in order to ensure watertightness on the cable side. W series connectors provide the following main features:

- multipole types from 2 to 64 contacts
 fibre optic or mixed types available upon request
- solder or crimp contacts
- keying system («G» key standard) for connector alignment
- multiple key options to avoid cross mating of similar connectors
- 360° screening for full EMC shielding
- rugged housing for extreme working conditions.

Interconnections



Part Section Showing Internal Components





Part Number Example



FVA.2W.319.CLAC85 = straight plug with key (A), 2W series, multipole type with 19 contacts, outer shell in chromeplated brass, PEEK insulator, male solder contacts, C type collet for 8.5 mm diameter cable.



HVG.2W.306.CLLPV = fixed socket, nut fixing, key (G), 2W series, multipole type with 6 contacts, outer shell in chromeplated brass, PEEK insulator, female solder contacts, potted with Araldite[®] epoxy resin, vacuumtight.

Note: ¹) The «Variant» position in the reference is used to specify either the presence of a collet nut for fitting the bend relief. For models with collet nut for fitting the bend relief, a «Z» should be indicated and a bend relief can be ordered separately. An order for a connector with bend relief should thus include two part numbers.



Alignment Key and Polarized Keying System

W 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	Model	Nb of	Angles	Series	Conta	ct type	Note	
	Mo	keys	Anç	0W-5W	Plug	Socket	Note	
	G	1		0°	male	female		
	Α	2		30°	male	female		
	В	2	α	45°	male	female		Available
	L	2	γ	75°	female	male	0	 On request





Technical Characteristics

Mechanical and Climatical

Characteristics	Value	Standard
Endurance	> 1000 cycles	IEC 60512-5 test 9a
Temperature range	-20	° C, +200° C
Salt spray corrosion test	> 144h	IEC 60512-6 test 11f
Protection index (mated)	> IP 68	IEC 60529
Resistance to hydrostatic pressure (mated)	~ 30 bars ¹⁾	IEC 60512-7 test 14d
Climatical category	20/200/21	IEC 60068-1







Models

Characteri	stics	Value	Standard
Shielding	at 10 MHz	> 95 dB	IEC 60169-1-3
efficiency	at 1 GHz	> 80 dB	IEC 60169-1-3

Note: $^{\rm 1)}$ in order to perform correctly and withstand the pressure, cable assembly shall be made according to instruction we recommand. See page 16.

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

Refe	rence	Dimensions (mm)									
Model	Series	Α	В	L	М	Ν	S1	S3			
FVG	0W	17.2	8.9	35.5	30.8	13.5	16	8			
FVG	1W	19.3	11.0	43.7	35.5	14.0	18	9			
FVG	2W	23.5	14.0	52.5	43.0	15.5	22	12			
FVG	3W	27.8	17.0	61.5	48.0	16.5	26	15			
FVG	4W	34.3	22.0	71.5	57.5	17.5	32	19			
FVG	5W	50.0	34.0	100.0	83.0	21.0	47	30			

FVG Straight plug, key (G) or keys (A, B or L), oversize cable collet ¹⁾

Refe	rence	Dimensions (mm)									
Model	Series	A	В	L	М	Ν	S1	S2	S3		
FVG	1W	19.3	14.5	56.5	48.3	14.0	18	12	12		
FVG	2W	23.5	17.0	68.5	56.0	15.5	22	15	15		
FVG	3W	27.8	22.0	80.5	67.0	16.5	26	19	19		
FVG	4W	34.3	36.0	105.5	91.5	17.5	32	30	32		

Note: ¹⁾ correspond to K type of collet, the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up (see page 12).

FVG Straight plug, key (G) or keys (A, B or L), cable collet and nut for fitting a bend relief ¹⁾

Refe	rence	Dimensions (mm)								
Model	Series	A	В	L	М	Ν	S1	S3		
FVG	0W	17.2	8.9	35.5	30.8	13.5	16	7		
FVG	1W	19.3	11.0	43.7	35.5	14.0	18	9		
FVG	2W	23.5	14.0	52.5	43.0	15.5	22	12		
FVG	3W	27.8	17.0	60.5	46.9	16.5	26	15		
FVG	4W	34.3	22.0	71.5	57.5	17.5	32	19		

Note: ¹⁾ to order, add a «Z» at the end of the reference. The bend relief must be ordered separately (see pages 141 and 142 of the unipole/multipole catalog).







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FVG Straight plug, key (G) or keys (A, B or L), cable collet with special coupling nut ¹⁾

Refe	rence		Dimensions (mm)								
Model	Series	A B L M N S3									
FVG	0W	17 8.9 35.0 29.8 13.5 8									

Note: 1) to order, add a «Y» at the end of the reference.



EVG Fixed socket, nut fixing, key (G) or keys (A, B or L),

Refer	rence		Dimensions (mm)										
Model	Series	Α	В	е	e1	Е	L	Ν	S1	S2	S3		
EVG	0W	16.2	16.0	M12x1.0	M14x1.0	4.0	21.7	8.0	10.5	12.5	14		
EVG	1W	18.3	19.5	M14x1.0	M16x1.0	8.0	27.0	8.0	12.5	14.5	17		
EVG	2W	22.5	21.8	M16x1.0	M20x1.0	9.0	30.7	9.0	14.5	18.5	19		
EVG	3W	26.6	27.0	M20x1.0	M24x1.0	13.0	36.2	9.5	18.5	22.5	24		
EVG	4W	32.8	34.2	M24x1.0	M30x1.0	15.0	40.2	9.5	22.5	28.5	30		
EVG	5W	48.0	53.0	M38x1.5	M45x1.5	18.0	47.5	12.5	35.5	42.5	46		

Panel cut-out (page 16)

PVG Free socket, key (G) or keys (A, B or L), cable collet

Refe	rence	Dimensions (mm)									
Model	Series	A	В	е	L	S1	S2	S3			
PVG	0W	16.2	8.9	M14x1.0	34.0	14	13.5	8			
PVG	1W	18.3	11.0	M16x1.0	45.0	16	14.5	9			
PVG	2W	22.5	14.0	M20x1.0	54.0	20	18.5	12			
PVG	3W	26.6	17.0	M24x1.0	65.0	24	22.5	15			
PVG	4W	32.8	22.0	M30x1.0	75.5	30	28.5	19			
PVG	5W	48.0	34.0	M45x1.5	103.0	45	42.5	30			



PVG Free socket, key (G) or keys (A, B or L), oversize cable collet ¹⁾

Refe	rence		Dimensions (mm)									
Model	Series	Α	В	е	L	S1	S2	S3				
PVG	1W	18.3	11.0	M16x1.0	58.0	16	12	12				
PVG	2W	22.5	14.0	M20x1.0	67.0	20	15	15				
PVG	3W	26.6	17.0	M24x1.0	84.0	24	19	19				
PVG	4W	32.8	22.0	M30x1.0	109.5	30	30	32				

Note: ¹⁾ correspond to K type of collet, the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up (see page 12).









PVG Free socket, key (G) or keys (A, B or L), cable collet and nut for fitting a bend relief ¹⁾

Refe	rence		[Dimension	s (mm)	
Model	Series	Α	В	е	L	S1	S3
PVG	0W	16.2	8.9	M14x1.0	34.0	14	7
PVG	1W	18.3	11.0	M16x1.0	45.0	16	9
PVG	2W	22.5	14.0	M20x1.0	54.0	20	12
PVG	3W	26.6	17.0	M24x1.0	64.0	24	15
PVG	4W	32.8	22.0	M30x1.0	75.5	30	19

Note: ¹⁾ to order, add a «Z» at the end of the reference. The bend relief must be ordered separately (see pages 141 and 142 of the unipole/multipole catalog).



Vacuumtight models

HRG and HVG socket 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 made in a vacuum tight version. They 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 and we are offering 2 different resins:

- a) Epoxy Araldite[®], for general purpose use, identify with letter «P»
 b) Epoxy Stycast[®], for oil and petrol industry, identify with the letter «S».

Part number example:

Vacuumtight socket potted with Araldite[®] epoxy: HVG.0W.304.CLLPV Vacuumtight socket potted with Stycast[®] epoxy: HVG.0W.304.CLLSV

Technical Characteristics

Mechanical and Climatical

Characteristics	Value	Standard
Endurance	> 1000 cycles	IEC 60512-5 test 9a
Humidity	up t	o 95% at 60° C
Temperature range (0W-1W)	-2	20° C/+100° C
Temperature range (2W to 5W)	- :	20° C/+80° C
Salt spray corrosion test	> 144h	IEC 60512-6 test 11f
Climatical category	20/80/21	IEC 60068-1
Leakage rate (He) ¹⁾	< 10 ⁻⁷ mbar.l.s ⁻¹	IEC 60512-7 test 14b

Characteristics		Value	Standard
	0W	60 bars	
	1W	60 bars	
Maximum operating pressure ²⁾	2W	40 bars	IEC 60512-7 test 14d
pressure ²⁾	ЗW	30 bars	IEC 00512-7 lest 140
	4W	15 bars	
	5W	5 bars	

Note:1) For vacuumtight models.

²⁾ this value corresponds to the maximum allowed pressure difference for the assembled socket if used in the unmated condition.



HVG Fixed socket, nut fixing, key (G) or keys (A, B or L), vacuumtight

Refe	rence				Dimens	ions ((mm)				
Model	Series	А	В	е	e1	E	L	Ν	S1	S2	S3
HVG	0W	16.2	16.0	M12x1.0	M14x1.0	5.5	21.7	8.0	10.5	12.5	14
HVG	1W	18.3	19.5	M14x1.0	M16x1.0	11.5	27.0	8.0	12.5	14.5	17
HVG	2W	22.5	21.8	M16x1.0	M20x1.0	12.0	30.7	9.0	14.5	18.5	19
HVG	3W	26.6	27.5	M20x1.0	M24x1.0	17.5	36.2	9.5	18.5	22.5	24
HVG	4W	32.8	34.2	M24x1.0	M30x1.0	20.0	48.2	9.5	22.5	28.5	30
HVG	5W	48.0	53.0	M38x1.5	M45x1.5	22.0	55.6	12.5	35.5	42.5	46

Panel cut-out (page 16)



HRG Fixed socket, nut fixing, key (G) or keys (A, B or L), hexagonal flange, vacuumtight

Refe	rence				Dimen	sions	(mm)				
Model	Series	Α	В	е	e1	Е	L	Ν	S1	S3	S4
HRG	0W	18	I8 I6 M12x1.0 M14x1.0 5.5 21.7 8 10.5 14 17								

Panel cut-out (page 16)



Insert configuration

Other like fibre optic of mixed are available, please consult us.

Multipole

	Male solder contacts	Female solder contacts					Contac	ct type		So	lder ntact	Cri con	mp tact	
	Male crimp contacts	Female crimp contacts	Reference	Number of contacts	ø A (mm)	Solder	Crimp	Print (straight)	Print (elbow)	Test voltage (kV rms) ¹⁾ Contact-contact	Test voltage (kV rms) ¹⁾ Contact-shell	Test voltage (kV rms) ¹⁾ Contact-contact	Test voltage (kV rms) ¹⁾ Contact-shell	Rated current (A) ¹⁾
ow	•	8	302	2	0.9	•	•	•	•	1.30	1.05	1.45	1.20	10.0 ²⁾
			303	3	0.9	•	•	•	•	1.20	0.90	1.70	1.60	8.02)
			304	4	0.7	•	•	•	•	0.85	0.70	1.35	1.10	7.02)
			305	5	0.7	•	•	•	•	1.00	0.70	1.25	1.20	6.5 ²⁾
			306	6	0.5	•	<u></u> (→ 4)	•	•	0.85	0.65	1.40	1.20	2.5
			307	7	0.5	•	<u> </u>	•	•	0.80	0.70	1.40	1.20	2.5
			309	9	0.5	•	<u></u> (→ 4)	•	0	0.60	0.50	1.00	0.85	2.0
1W		8	302	2	1.3	•	•	•	•	1.50	1.35	1.70	1.45	15.0 ³⁾
			303	3	1.3	•	•	•	•	1.30	1.55	1.60	1.85	12.0
		69	304	4	0.9	•	•	•	•	1.35	1.45	1.70	1.80	10.0 ²⁾
			305	5	0.9	•	•	•	•	1.25	1.15	1.30	1.55	9.0 ²⁾
		(C)	306	6	0.7	•	•	•	•	1.05	1.20	1.35	1.45	7.0 ²⁾
			307	7	0.7	•	•	•	•	0.95	1.05	1.45	1.45	7.0 ²⁾
			308	8	0.7	•	•	•	•	0.95	1.15	1.30	1.30	5.0
			310	10	0.5	•	<u>(</u> 4)	•	•	0.90	1.50	1.20	1.80	2.5
			314	14	0.5	•	<u>(</u> 4)	•	•	0.80	1.20	0.95	1.60	2.0
			316	16	0.5	•	<u>(</u> 4)	•	0	0.80	1.25	0.95	1.60	1.5

• First choice alternative O Special order alternative

Note: 1) see calculation method, caution and suggested standard. ²⁾ rated current = 6A for socket with elbow (90°) contact for printed circuit. ³⁾ rated current = 12A for socket with elbow (90°) contact for printed circuit. ⁴⁾ available only for connectors fitted with male contacts.



	Male solder contacts	Female solder contacts					Conta	ct type		Sol	der tact	Cri con	mp tact	
	Male crimp contacts	Female crimp contacts	Reference	Number of contacts	ø A (mm)	Solder	Crimp	Print (straight)	Print (elbow)	Test voltage (kV rms) ¹⁾ Contact-contact	Test voltage (kV rms) ¹⁾ Contact-shell	Test voltage (kV rms) ¹⁾ Contact-contact	Test voltage (kV rms) ¹⁾ Contact-shell	Rated current (A) ¹⁾
2W		8	302	2	2.0	•	•	•	•	2.10	1.75	2.85	2.70	30.0 ³⁾
			303	3	1.6	•	•	•	•	2.40	1.85	1.90	1.90	17.0 ³⁾
		69	304	4	1.3	•	•	•	•	1.85	1.85	2.20	2.20	15.0 ³⁾
			305	5	1.3	•	•	•	•	1.75	1.60	2.15	2.15	14.0 ³⁾
			306	6	1.3	•	•	•	•	1.35	1.45	2.00	2.35	12.0
			307	7	1.3	•	•	•	•	1.75	1.60	1.95	2.15	11.0
			308	8	0.9	•	•	•	•	1.50	1.25	1.95	1.95	10.0 ²⁾
			310	10	0.9	•	•	•	•	1.45	1.30	1.80	2.10	8.02)
			312	12	0.7	•	•	•	•	1.25	1.35	1.65	2.00	7.0 ²⁾
			314	14	0.7	•	•	•	•	1.15	1.35	1.55	1.95	6.5 ²⁾
			316	16	0.7	•	•	•	•	0.95	1.25	1.55	1.75	6.0
			318	18	0.7	•	•	•	•	0.85	1.20	1.45	2.10	5.5
			319	19	0.7	•	•		•	0.95	1.25	1.55	1.65	5.0
			326	26	0.5	•	-	•	0	0.95	1.30	1.20	1.80	2.0
			332	32	0.5	•	_	•	0	0.80	1.2	0.95	1.60	1.5

• First choice alternative O Special order alternative

Note: 1) see calculation method, caution and suggested standard. ²⁾ rated current = 6A for socket with elbow (90°) contact for printed circuit. ³⁾ rated current = 12A for socket with elbow (90°) contact for printed circuit.





	Male solder contacts	Female solder contacts					Conta	ct type			der tact	Cri con	mp tact	
	Male crimp contacts	Female crimp contacts	Reference	Number of contacts	ø A (mm)	Solder	Crimp	Print (straight)	Print (elbow)	Test voltage (kV rms) ¹⁾ Contact-contact	Test voltage (kV rms) ¹⁾ Contact-shell	Test voltage (kV rms) ¹⁾ Contact-contact	Test voltage (kV rms) ¹⁾ Contact-shell	Rated current (A) ¹⁾
3W			302	2	3.0	•	•	0		2.10	1.55	2.30	1.80	35.0
			303	3	2.0	•	•	•	0	1.90	1.50	3.20	2.65	25.0
			304	4	2.0	•	•	•	0	1.45	1.25	2.50	2.20	19.0
		63	305	5	1.6	•	•	•	0	1.90	1.25	2.40	1.75	19.0
			306	6	1.6	•	•	•	0	1.60	1.15	1.90	1.80	17.0
			307	7	1.6	•	•	•	0	1.70	1.25	2.00	2.05	15.0
			308	8	1.3	•	•	•	•	1.65	1.15	1.85	1.75	13.0
			309	8 1	1.3 2.0	•	•	•	_	1.35 1.35	1.05 1.05	1.10 1.10	1.05 1.05	6.0 15.0
			310	10	1.3	•	•	•	0	1.25	0.90	1.50	1.80	12.0
			312	12	0.9	•	•	•	•	1.45	1.00	1.65	1.85	9.0
			314	14	0.9	•	•	•	•	1.20	1.20	1.80	1.65	9.0 ²⁾
			316	16	0.9	•	•	•	•	1.20	0.85	1.80	1.50	8.0
			318	18	0.9	•	•	•	•	1.20	1.05	1.85	1.60	7.0
			320	20	0.7	•	•	•	•	1.00	0.90	1.35	1.55	6.0
			322	22	0.7	•	•	•	0	1.00	0.90	1.70	1.45	5.5
			324	24	0.7	•	•	•	•	0.95	0.80	1.35	1.35	4.0
			326	26	0.7	•	•	•	0	0.95	0.70	1.50	1.30	4.0
			330	30	0.7	•	•	•	•	0.80	0.70	1.35	1.20	3.5

• First choice alternative O Special order alternative

Note: ¹⁾ see calculation method, caution and suggested standard. ²⁾ rated current = 6A for socket with elbow (90°) contact for printed circuit.





	Male solder contacts	Female solder contacts				Co	ntact ty	/pe	Sol con	der tact	Cri con	mp tact	
	Male crimp contacts	Female crimp contacts	Reference	Number of contacts	ø A (mm)	Solder	Crimp	Print (straight)	Test voltage (kV rms) ¹⁾ Contact-contact	Test voltage (kV rms) ¹⁾ Contact-shell	Test voltage (kV rms) ¹⁾ Contact-contact	Test voltage (kV rms) ¹⁾ Contact-shell	Rated current (A) ¹⁾
4W			304	4	3.0	•	•	0	2.10	1.50	1.80	1.20	30.0
			306	6	2.0	•	•	0	2.00	1.75	2.75	2.40	24.0
			307	7	2.0	•	•	0	2.00	1.80	1.50	1.35	20.0
			310	10	1.6	•	•	0	1.85	1.30	1.90	1.95	17.0
			312	12	1.3	•	•	0	1.45	1.60	1.90	1.85	12.0
			316	16	0.9	•	•	•	1.35	1.50	2.30	2.10	10.0
			320	20	0.9	•	•	•	1.35	1.00	1.05	0.95	8.0
			324	24	0.9	•	•	•	1.20	1.45	1.80	2.05	7.0
			330	30	0.9	•	•	•	0.95	0.85	1.75	1.45	5.0
			340	40	0.7	•	•	•	0.90	0.90	1.30	1.30	2.0
			348	48	0.7	•	•	•	0.70	0.70	1.00	1.00	1.5

• First choice alternative O Special order alternative Note: 1) see calculation method, caution and suggested standard.





	Male solder contacts	Female solder contacts				Co	ntact ty	/pe	Sol con	der tact	Cri con	mp tact	
				contacts				ht)	e (kV rms) ¹⁾ ntact	Test voltage (kV rms) ¹⁾ Contact-shell	e (kV rms) ¹⁾ ntact	Test voltage (kV rms) ¹⁾ Contact-shell	ent (A) ¹⁾
	Male crimp contacts	Female crimp contacts	Reference	Number of contacts	ø A (mm)	Solder	Crimp	Print (straight)	Test voltage (kV Contact-contact	Test voltag Contact-sh	Test voltage (kV r Contact-contact	Test voltag Contact-sh	Rated current (A) ¹⁾
5W			302	2	6.0	•	_	_	3.60	2.95	-	_	50.0
			304	4	4.0	•	•	0	2.95	2.65	3.20	2.40	35.0
			310	10	3.0	•	•	0	2.35	2.30	2.65	3.20	20.0
			314	14	2.0	•	•	0	2.10	2.00	2.85	2.95	18.0
			316	16	2.0	•	•	0	1.85	1.95	2.45	3.05	12.0
			320	20	1.6	•	•	0	1.90	1.70	2.20	2.40	10.0
			330	30	1.3	•	•	0	1.45	1.60	2.05	2.45	8.0
			340	40	1.3	•	•	0	1.30	1.45	2.00	1.95	7.0
			348	48	1.3	•	•	0	1.20	1.10	2.00	1.55	6.0
			350	50	0.9	•	•	•	1.30	1.60	1.20	1.45	6.0
			354	54	0.9	•	•	•	1.15	1.55	2.00	2.10	5.0
			364	64	0.9	•	•	•	1.30	1.55	1.35	1.85	3.0

• First choice alternative O Special order alternative Note: 1) see calculation method, caution and suggested standard .



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Collets

C and K type collets

			$\bigcirc 0$	\bigcirc	
	Refe	rence	Cab	le ø]
	Туре	Code	max.	min.	
	С	20	2.2	1.4	1
0W	С	30	3.2	> 2.2	
	С	40	4.2	> 3.2	
	С	50	5.2	> 4.2	
	С	20	2.2	1.4	
1W	С	30	3.2	> 2.2	
	С	40	4.2	> 3.2	
	С	50	5.2	> 4.2	
	С	60	6.2	> 5.2	
	С	65	7.2	> 6.2	
	K	70	7.2	> 6.2	
	K	75	8.2	> 7.2	
	K	80	8.2	> 7.2	
	K	85	9.2	> 8.2	
	С	40	4.2	3.0	
2W	С	50	5.2	> 4.2	
	С	60	6.2	> 5.2	
	С	70	7.2	> 6.2	
	С	80	8.2	> 7.2	
	С	85	9.2	> 8.2	
	K	90	10.2	> 8.7	
	K	95	10.2	> 8.7	
	K	10	10.2	> 8.7	
	K	11	11.2	> 10.2	
	С	40	4.2	2.7	
3W	С	50	5.7	> 4.2	
	С	70	7.2	> 5.7	
	С	80	8.7	> 7.2	
	С	10	10.2	> 8.7	
	С	11	11.2	> 10.2	
	K	11	12.0	10.6	
	K	12	12.8	12.1	
	K	13	13.5	12.9	
	K	14	14.0	13.6	
	K	15	15.0	14.1	

Note: all dimensions are in millimetres.

	Refe	rence	Cab	ole ø	
	Туре	Code	max.	min.	
	С	50	5.0	4.8	
4W	С	55	5.5	5.1	
	С	60	6.0	5.6	
	С	65	6.5	6.1	
	С	70	7.0	6.6	
	С	75	7.5	7.1	
	С	80	8.0	7.6	
	С	85	8.5	8.1	
	С	90	9.0	8.6	
	С	95	9.5	9.1	
	С	10	10.5	9.6	
	С	11	12.0	10.6	
	С	12	12.8	12.1	
	С	13	13.5	12.9	
	С	14	14.0	13.6	
	С	15	15.0	14.1	
	K	16	16.5	15.6	
	K	17	17.5	16.6	
	K	18	18.5	17.6	
	K	19	19.5	18.6	
	K	20	20.5	19.6	
	K	21	21.5	20.6	
	K	22	22.5	21.6	
	K	23	23.5	22.6	
	С	10	10.5	9.6	
5W	С	11	11.5	10.6	
	С	12	12.5	11.6	
	С	13	13.5	12.6	
	С	14	14.5	13.6	
	С	14.6			
	C 16 16.5				15.6
	С	17	17.5	16.6	
	С	18	18.5	17.6	
	С	19	19.5	18.6	
	С	20	20.5	19.6	
	С	21	21.5	20.6	
	С	22	22.5	21.6	
	С	23	23.5	22.6	





Variant

Bend relief for W series models with collet



Note: ¹) The bend relief must be ordered separately (see pages 141 and 142 of the unipole/multipole catalog). All dimensions are in millimetres.



Accessories



BFG Plug caps with key (G)

Part number	Series	Dimensions (mm)										
Fait number	Series	А	В	е	L	Ν	S1					
BFG.0W.100.•AZ	0W	17.2	6	M14x1.0	12.5	85	16					
BFG.1W.100.•AZ	1W	19.3	6	M16x1.0	15.5	85	18					
BFG.2W.100.•AZ	2W	23.5	6	M20x1.0	17.5	85	22					
BFG.3W.100.•AZ	3W	27.8	6	M24x1.0	22.0	120	26					
BFG.4W.100.•AZ	4W	34.3	10	M30x1.0	22.5	120	32					
BFG.5W.100.•AZ	5W	50.0	10	M45x1.5	27.0	120	47					

Body material: ● = N, nickel-plated brass (Ni 3µm) ● = S, stainless steel Lanyard material: Stainless steel Crimp ferrule material: Nickel-plated brass

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BRE Blanking caps for fixed sockets This cap is only IP68 when installed

Part number	Series	Dimensions (mm)					
i an number	Selles	А	L	Ν	S1		
BRE.0V.200. AV	0W	17.2	13.7	85	16		
BRE.1V.200. AV	1W	19.3	13.7	85	18		
BRE.2V.200. AV	2W	23.5	14.7	85	22		
BRE.3V.200. AV	3W	27.8	14.7	120	26		
BRE.4V.200.•AV	4W	34.3	14.7	120	32		
BRE.5V.200.•AV	5W	50.0	16.2	120	47		

Body material: ● = N, nickel-plated brass (Ni 3µm) ● = S, stainless steel Lanyard material: Stainless steel Crimp ferrule material: Nickel-plated brass O-ring: FPM (Viton®)

Blanking caps for free sockets This cap is only IP68 when installed BRF

Part number	Series	Dimensions (mm)					
i an number	Selles	А	L	Ν	S1		
BRF.0V.200. AV	0W	17.2	13.7	85	16		
BRF.1V.200.•AV	1W	19.3	13.7	85	18		
BRF.2V.200.•AV	2W	23.5	14.7	85	22		
BRF.3V.200.•AV	3W	27.8	14.7	120	26		
BRF.4V.200.•AV	4W	34.3	14.7	120	32		
BRF.5V.200.•AV	5W	50.0	16.2	120	47		

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S 1





Material:
 – Nickel-plated brass (3 µm)
 – Stainless steel



Part number	Series	Dimensions (mm)					
Farthumber	Series	А	В	е	L		
GEA.1S.240.LN	0W	14	15.8	M12 x 1.00	2.5		
GEA.0E.240.LN	1W	17	19.2	M14 x 1.00	2.5		
GEA.1E.240.LN	2W	19	21.5	M16 x 1.00	3.0		
GEA.2E.240.LN	3W	24	27.0	M20 x 1.00	4.0		
GEA.3E.240.LN	4W	30	34.0	M24 x 1.00	5.0		
GEA.5W.240.LN	5W	46	53.0	M38 x 1.50	8.0		

Note: to order this part separately, use the above part numbers. The last letters «LN» of the part number refer to the nut material and treatment. If a nut in stainless steel is desired, replace the last letters of the part number by «AZ».

GDA O-ring for plug

Part number	Series	Dim. (mm)		
Fanthumper	Series	А	С	
GDA.99.070.100VK	0W	7.0	1.00	
GDA.99.090.125VK	1W	9.0	1.25	
GDA.99.120.150VK	2W	12.0	1.50	
GDA.99.150.150VK	3W	15.0	1.50	
GDA.99.190.200VK	4W	19.0	2.00	
GDA.99.310.250VK	5W	31.0	2.50	

Material: FPM (Viton[®])



Panel Cut-outs



Mounting nuts torque

Component	Torque (Nm)						
Component	0W	1W	2W	3W	4W	5W	
Collet nut for Fee and Pee	0.7	0.8	2	3	5	8	
Mounting hex nut for sockets	5	7	9	12	17	22	
Coupling nut	5	7	9	12	17	22	

Series	Dimensions (mm)					
Series	Α	В	L			
0W	12.1	10.6	19.0			
1W	14.1	12.6	21.0			
2W	16.1	14.6	25.5			
ЗW	20.2	18.6	30.0			
4W	24.2	22.6	37.0			
5W	38.2	35.6	53.0			

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.

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Most frequently used in darker colour

• included in this catalogue

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05 Series	5G Series Keyed	2G Series Keyed	2C Series	L Series Keyed	H Series	R Series Keyed
	E Constantino de Con	6	۵ 🔊		60	
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