

COAXIAL, TRIAXIAL, MULTI & MIXED CONNECTORS

SHORT FORM
CATALOGUE



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.

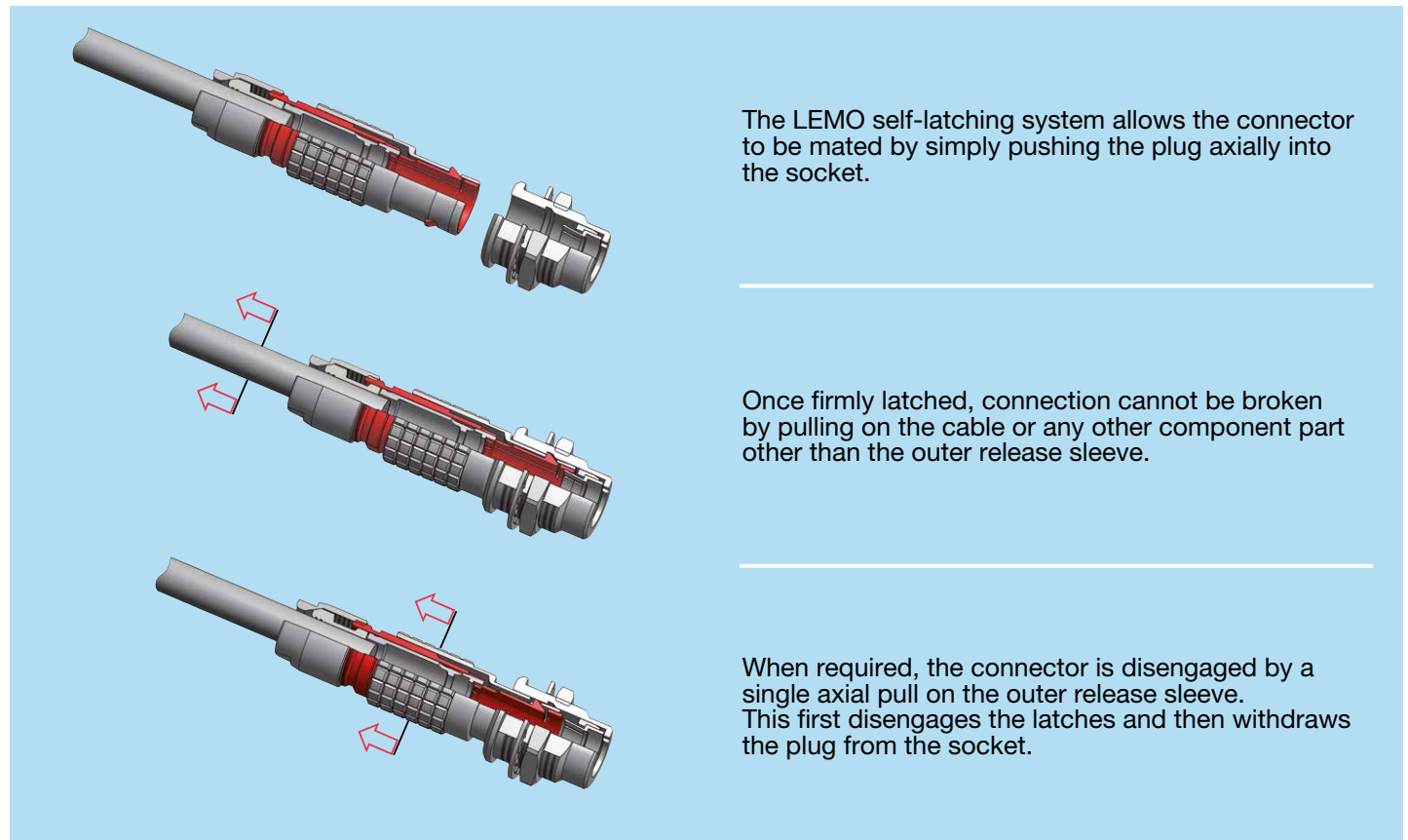
Over 75000 connectors

The modular design of the LEMO range provides over 75000 connectors from miniature $\varnothing$ 3 mm to $\varnothing$ 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

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.

Introduction

This catalogue gives the complete description of LEMO connectors with coaxial, triaxial and mixed contacts. Mixed contacts include coaxial and low voltage contact configurations, as well as multi-coaxial contact configurations.

The LEMO manufacturing programme has been extended to almost 40 series divided into 7 product families with specific mating and environmental characteristics. Each series includes a wide variety of plug, socket and coupler models, available in contact configurations adapted to all round cables. The catalogue includes the B, K, S and E Series of the LEMO product range. In addition the 00 Series (triaxial) connector is also represented.

Watertight and vacuumtight models are also available. Since LEMO connectors are perfectly screened and designed to guarantee very low resistance to shell electrical continuity, they are particularly adapted to applications where electromagnetic compatibility (EMC) is important.

Material and treatment

Component	Material (Standard)	Surface treatment (μm)										Notes
		chrome			nickel		gold			black chr.		
		Cu	Ni	Cr	Cu	Ni	Cu	Ni	Au	Ni	Cr	
Outer shell, collet nut, conical nut or notched nut and oversized collet	Brass (UNS C 38500)	0.5	3	0.3	0.5	3	0.5	3	0.5	1	2	
	Stainless steel (AISI 303, 304 or 316L)	without treatment										
	Aluminium alloy (AA 6262A or AA 6023)	anodized										
	POM (Delrin® or Ertacetal®), Polyoxymethylene, black	—										1)
	PEEK, Polyether ethercetone, beige	—										2)
	PSU (Udel®), Polysulfone, grey or white	—										3)
	PPSU (Radel®), Polyphenylsulfone, cream	—										3)
	PPS (Ryton®), Polyphenilene sulfide, brown	—										4)
Earthing crown	Bronze (UNS C 54400) or special brass	—	—	—	0.5	3	0.5	3	1.0	—	—	5)
	Beryllium Copper (UNS C 17300)	—	—	—	0.5	3	0.5	3	1.0	—	—	6)
	Stainless steel (AISI 416 or 316L)	without treatment										7)
Latch sleeve	Special brass	0.5	3	0.3	0.5	3	0.5	3	0.5	—	—	
	Stainless steel (AISI 416 or 316L)	without treatment										7)
Locking washer	Bronze (UNS C 52100)	—	—	—	0.5	3	0.5	3	0.5	—	—	
Hexagonal or round nut	Brass (UNS C 38500)	—	—	—	0.5	3	0.5	3	0.5	—	—	
	Stainless steel (AISI 303, 304 or 316L)	without treatment										8)
	Aluminium alloy (AA 6262A or AA 6023)	anodized natural										8)
Other metallic components	Brass (UNS C 38500)	—	—	—	0.5	3	0.5	3	0.5	—	—	
	Stainless steel (AISI 303, 304 or 316L)	without treatment										
O-ring and gaskets	Silicone MQ/MVQ or FPM/FKM (Viton®)	—										9)
Sealing resin	Epoxy (Araldite® or Stycast®)	—										

Notes:

standards for surface treatment are as follows:

- chrome-plated: SAE AMS 2460
- nickel-plated: SAE AMS QQ N 290, or MIL DTL 32119
- gold-plated: ISO 27874
- black chrome: MIL-C-14538C with a minimum of 10 μm of lacquer protection

¹⁾ for FFP, PCP and ERN models of the 0S to 3S series

²⁾ for FFP, PCP and ERN models of the 0S to 3S series, FGG and ENG models of the 0B, 1B, 3B and 4B series, FFA and FFC models of the 00 triaxial series

³⁾ for the FGG, FGY and ENY models of the 2B to 4B series

⁴⁾ for 00 triaxial series (elbow sockets for printed circuits)

⁵⁾ gold-plating for unipole types

⁶⁾ used in 00 series free and fixed sockets

⁷⁾ AISI 416 steel is used with shells made of AISI 303 or 304

⁸⁾ delivered with free and fixed sockets with aluminium alloy or stainless steel shell

⁹⁾ FPM/FKM (Viton®) o-ring and gaskets are installed upon special request. However standard for vacuumtight models.

B Series

B series connectors provide the following main features:

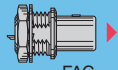
- security of the Push-Pull self-latching system
- coaxial, triaxial and mixed contact configurations
- plastic models made of PSU or PPSU
- multiple key options to avoid cross mating of similar connectors («G» key standard).
- up to 10 coaxial contacts
- solder or crimp contacts
- high packing density for space savings
- 360° screening for full EMC shielding

Metal housing models

Fixed plugs

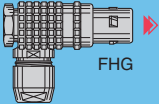


FWG

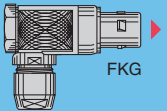


FAG

Elbow plugs

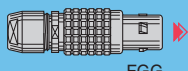


FHG

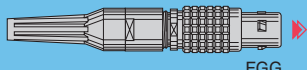


FKG

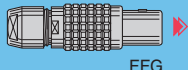
Straight plugs



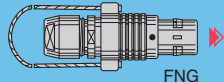
FGG



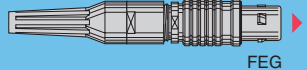
FGG



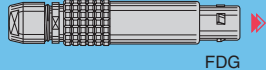
FFG



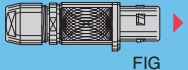
FNG



FEG



FDG



FIG

Fixed sockets



EGG



ENG



EKG



EHG



EJG

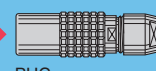


EEG

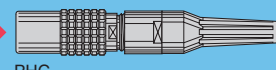


ECG

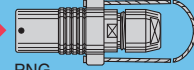
Free sockets



PHG

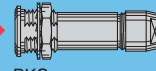


PHG

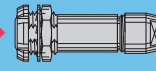


PNG

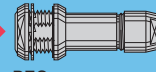
Fixed sockets



PKG



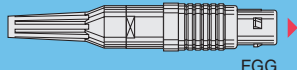
PFG



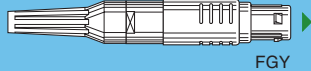
PEG

Plastic housing models

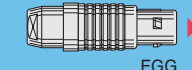
Straight plugs



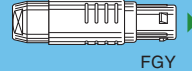
FGG



FGY

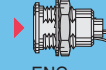


FGG

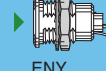


FGY

Fixed sockets



ENG



ENY

Model Description

ECG Fixed socket with two nuts, key (G) or keys (A...L and R) (back panel mounting)

EEG Fixed socket, nut fixing, key (G) or keys (A...L and R) (back panel mounting)

EGG Fixed socket, nut fixing, key (G) or keys (A...L and R)

EHG Fixed socket, nut fixing, key (G) or keys (A...L and R), and protruding shell

EJG Fixed socket, press or adhesive fit, key (G) or keys (A...L)

EKG Fixed socket, nut fixing, key (G) or keys (A...L and R), special alignment mark on the front

ENG Fixed socket with earthing tag, nut fixing, key (G) or keys (A...L)

ENG Fixed socket with earthing tag, nut fixing, key (G or J), PEEK outer shell

ENY Fixed socket with earthing tag, nut fixing, keys (Y), PSU or PPSU outer shell

FAG Fixed plug, non-latching, nut fixing, key (G) or keys (A...L and R)

FDG Straight plug, long version, key (G) or keys (A...L), cable collet

FEG Straight plug, key (G) or keys (A...L), cable collet, front seal and nut for fitting a bend relief (IP 54 protection index when mated)

FFG Straight plug, non-latching, key (G) or keys (A...L), cable collet

FGG Straight plug, key (G) or keys (A...L and R), cable collet

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

FGG Straight plug, key (G or J), cable collet, PEEK outer shell

FGG Straight plug, key (G or J), cable collet, PEEK outer shell, nut for fitting a bend relief

FGY Straight plug, keys (Y), cable collet and PSU or PPSU outer shell

FGY Straight plug, keys (Y), cable collet and PSU or PPSU outer shell and nut for fitting a bend relief

FHG Elbow (90°) plug, key (G) or keys (A...L and R), cable collet

FIG Straight plug for remote handling, key (G) or keys (A...L and R), special alignment mark, knurled handling surface, cable collet

FKG Elbow (90°) plug for remote handling, key (G) or keys (A...L), special alignment mark, knurled handling surface, cable collet

FNG Straight plug, key (G) or keys (A...L and R), cable collet and lanyard release

FWG Fixed plug, nut fixing, key (G) or keys (A...L)

PEG Fixed socket, nut fixing, key (G) or keys (A...L), cable collet (back panel mounting)

PFG Fixed socket, with two nuts, key (G) or keys (A...L and R), cable collet (back panel mounting)

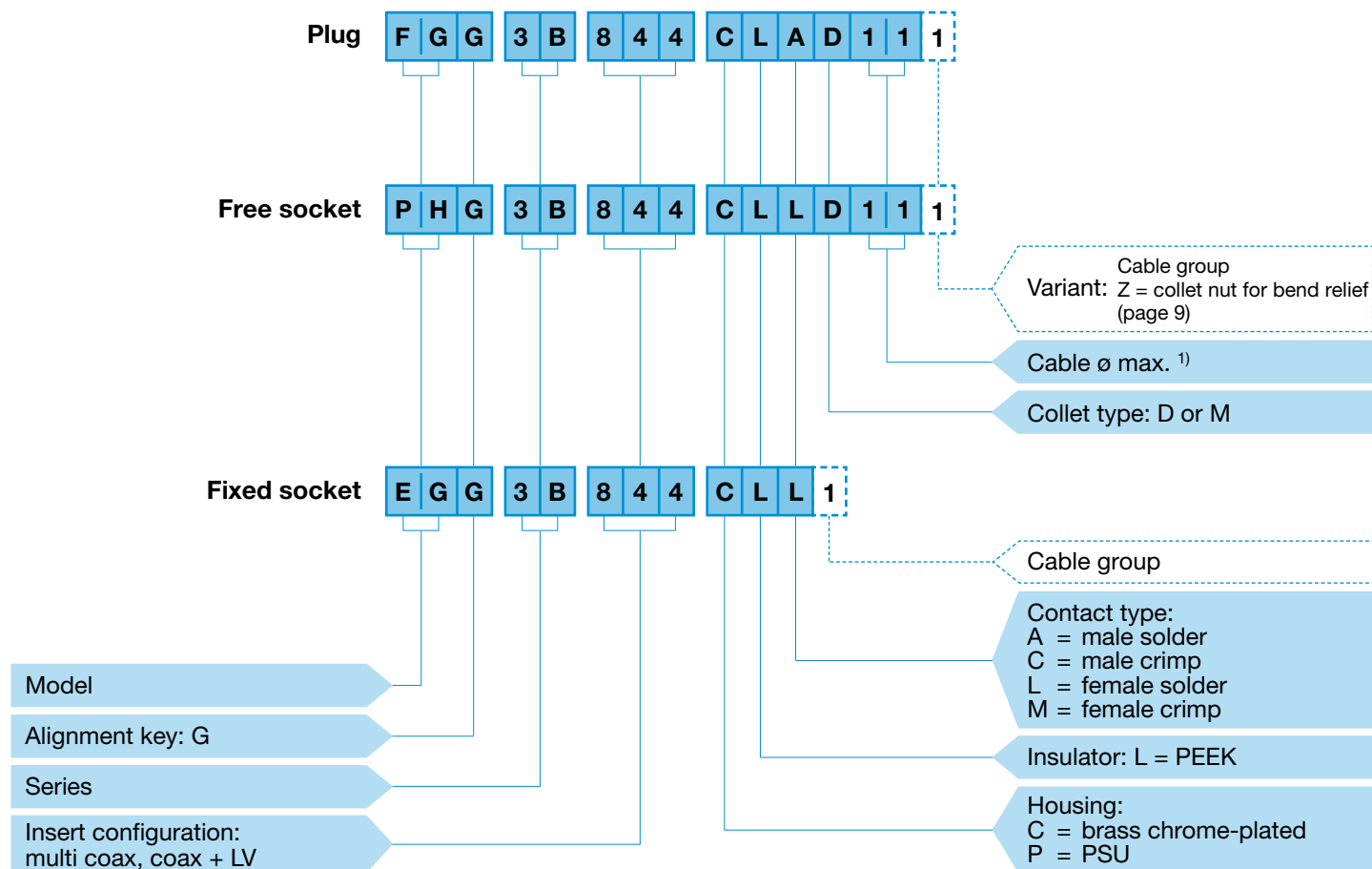
PHG Free socket, key (G) or keys (A...L and R), cable collet

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

PKG Fixed socket, nut fixing, key (G) or keys (A...L and R), cable collet

PNG Free socket, nut fixing, key (G) or keys (A...L and R), cable collet with lanyard release

Part Numbering System



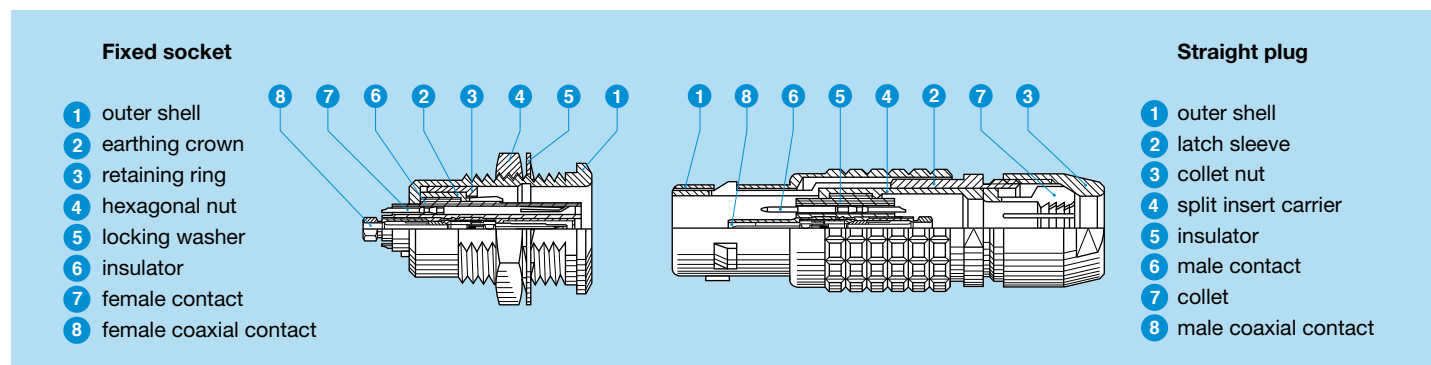
FGG.3B.844.CLAD111 = straight plug with key (G) and cable collet, 3B series, mixed coax & low voltage type (1 coax and 4 low voltage contacts), outer shell in chrome-plated brass, PEEK insulator, male solder contacts, D type collet for up to 11 mm diameter cable. Cable group 1.

PHG.3B.844.CLLD111 = free socket with key (G) and cable collet, 3B series, mixed coax & low voltage type (1 coax and 4 low voltage contacts), outer shell in chrome-plated brass, PEEK insulator, female solder contacts, D type collet for up to 11 mm diameter cable. Cable group 1.

EGG.3B.844.CLL1 = fixed socket, nut fixing, with key (G), 3B series, mixed coax & low voltage type (1 coax and 4 low voltage contacts), outer shell in chrome plated brass, PEEK insulator, female solder contacts. Cable group 1.

Note: ¹⁾ see unipole-multipole catalogue.

Part Section Showing Internal Components (mixed coax + LV)



K Series

K series connectors have been specifically designed for outdoor applications.

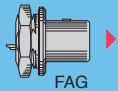
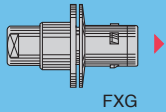
They include an inner sleeve and two seals to prevent penetration of solids or liquids into the housing formed by the plug, free socket or fixed socket. All models of this series are watertight when mated to give a protection index of IP68 as per IEC 60529 standard (in mated condition) when correctly assembled to an appropriate cable (IP66 otherwise).

K series connectors have the same insulators as the B series and have the following main features:

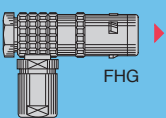
- security of the Push-Pull latching system
- coaxial, triaxial and mixed contact configurations
- solder or crimp contacts
- multiple key options to avoid cross mating of similar connectors («G» key standard)
 - watertight connection (IP 68/IP 66)
 - up to 10 coaxial contacts
 - 360° screening for full EMC shielding
 - high packing density for space savings
 - rugged housing for extreme working conditions.

Models

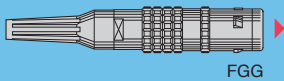
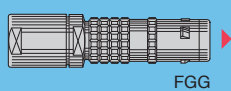
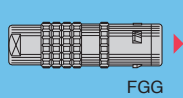
Fixed plugs



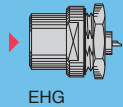
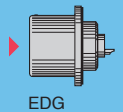
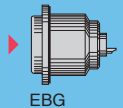
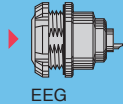
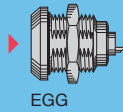
Elbow plug



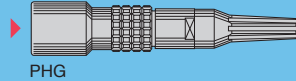
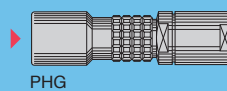
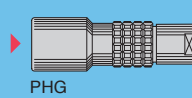
Straight plugs



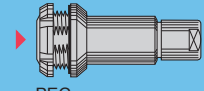
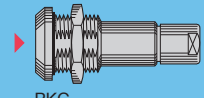
Fixed sockets



Free sockets



Fixed sockets



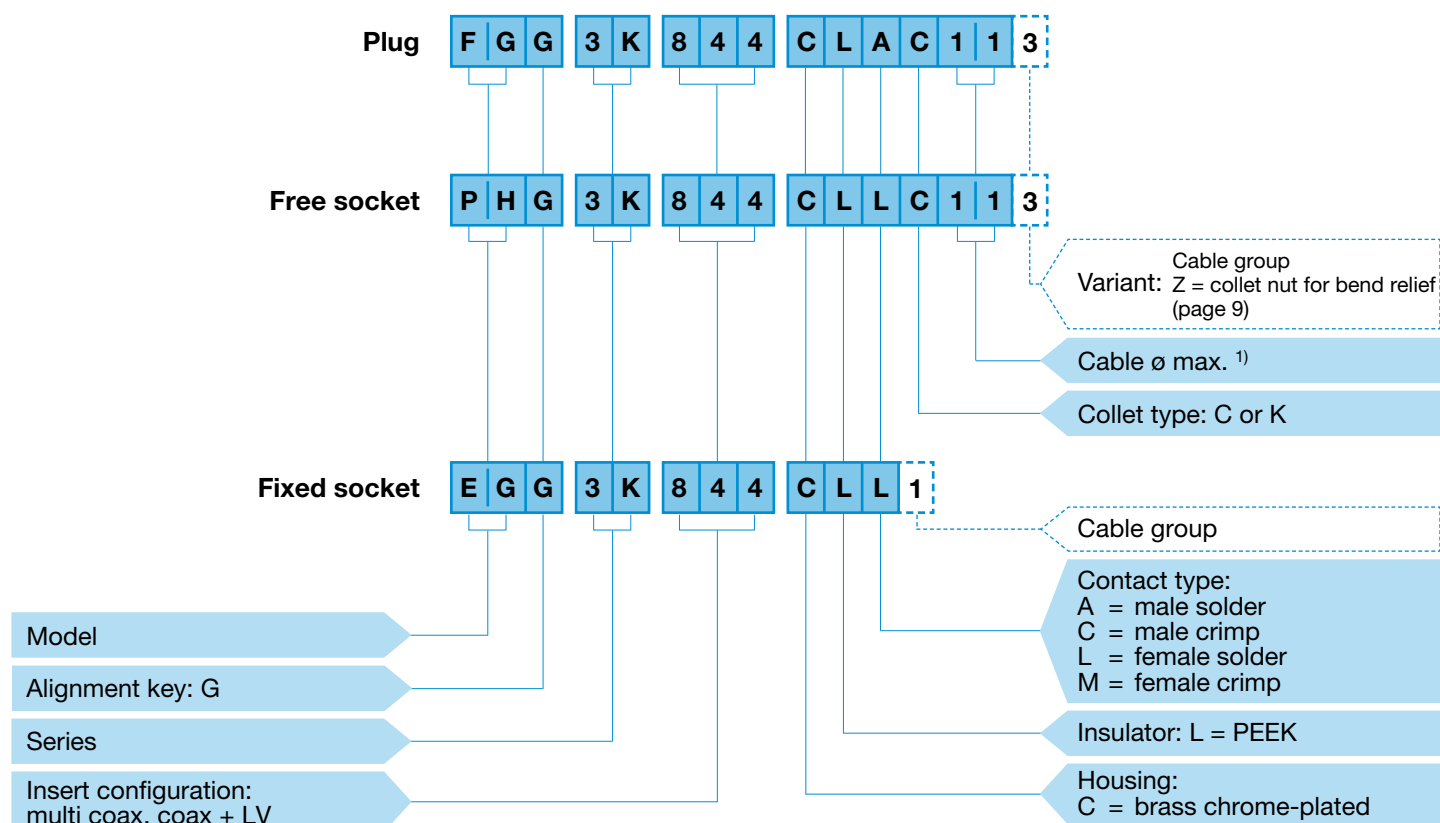
Model Description

- EBG** Fixed socket with square flange, key (G) or keys (A to F, L and R) and screw fixing
- EDG** Fixed socket with square flange, key (G) or keys (A to F, L and R), protruding shell and earthing tag, screw fixing
- EEG** Fixed socket, nut fixing, key (G) or keys (A to F, L and R) (back panel mounting)
- EGG** Fixed socket, nut fixing, key (G) or keys (A to F, L and R)
- EHG** Fixed socket, nut fixing, key (G) or keys (A to F and L), protruding shell
- FAG** Fixed plug, nut fixing, non-latching, key (G) or keys (A to F, L and R)

- FGG** Straight plug, key (G) or keys (A to F, L and R), cable collet
- FGG** Straight plug, key (G) or keys (A to F, L and R), cable collet and oversize cable collet
- FGG** Straight plug, key (G) or keys (A to F, L and R), cable collet and nut for fitting a bend relief
- FHG** Elbow (90°) plug, key (G) or keys (A to F, L and R), cable collet
- FXG** Fixed plug with round flange, key (G) or keys (A to F, L and R) and screw fixing
- PEG** Fixed socket, nut fixing, key (G) or keys (A to F, L and R), cable collet (back panel mounting)

- PHG** Free socket, key (G) or keys (A to F, L and R), cable collet
- PHG** Free socket, key (G) or keys (A to F, L and R), cable collet and oversize cable collet
- PHG** Free socket, key (G) or keys (A to F, L and R), cable collet and nut for fitting a bend relief
- PKG** Fixed socket, nut fixing, key (G) or keys (A to F, L and R), cable collet

Part Numbering System



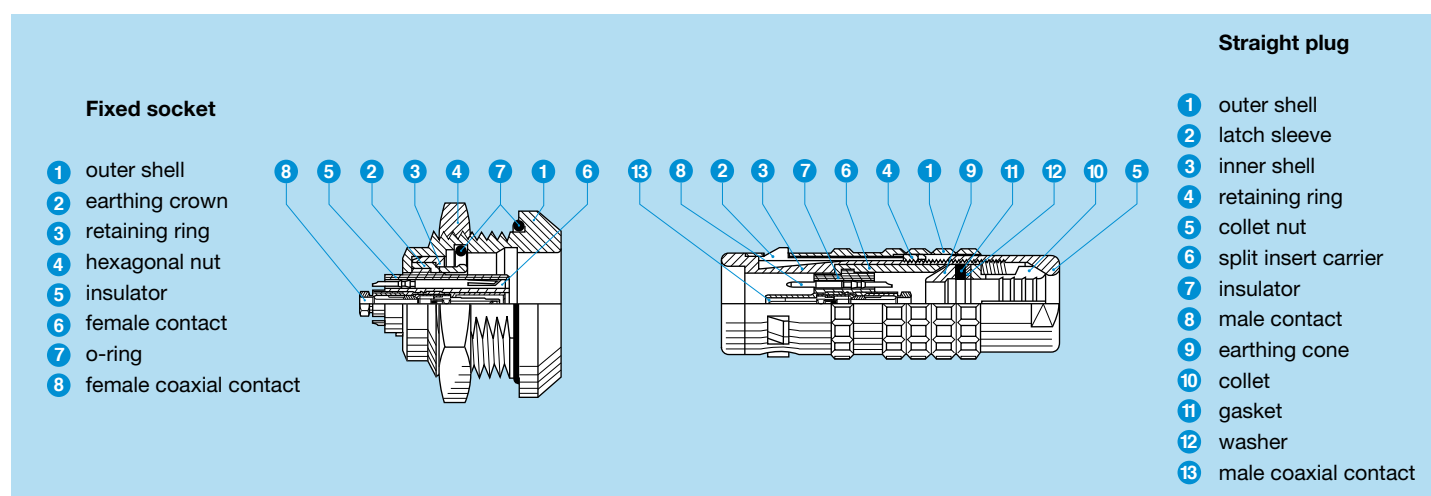
FGG.3K.844.CLAC113 = straight plug with key (G) and cable collet, 3K series, mixed coax & low voltage type (1 coax and 4 low voltage contacts), outer shell in chrome-plated brass, PEEK insulator, male solder contacts, C type collet for 10.5 mm diameter cable. Cable group 3.

PHG.3K.844.CLLC113 = free socket with key (G) and cable collet, 3K series, mixed coax & low voltage type (1 coax and 4 low voltage contacts), outer shell in chrome-plated brass, PEEK insulator, female solder contacts, C type collet for 10.5 mm diameter cable. Cable group 3.

EGG.3K.844.CLL1 = fixed socket, nut fixing, with key (G), 3K series, mixed coax & low voltage type (1 coax and 4 low voltage contacts), outer shell in chrome-plated brass, PEEK insulator, female solder contacts. Cable group 1.

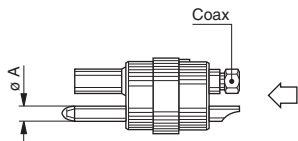
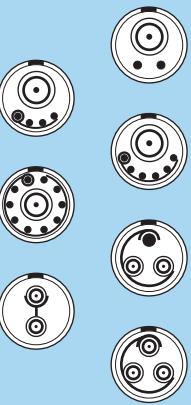
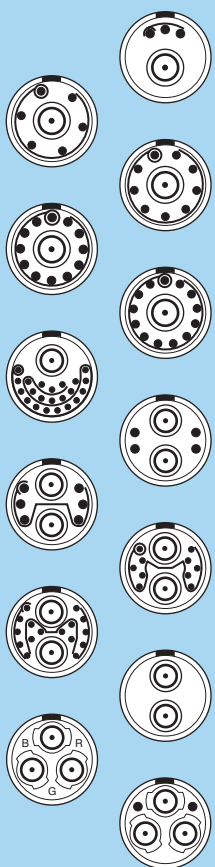
Note: ¹⁾ see unipole-multipole catalogue.

Part Section Showing Internal Components (mixed coax + LV)



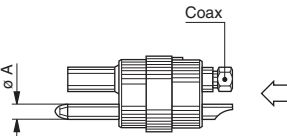
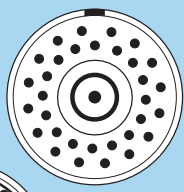
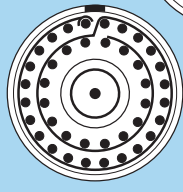
Insert configuration (B and K series)

Mixed: multi coax, coax + LV

		Reference	Coax				Low voltage (LV)						
			Number of contacts	Impedance (Ω)	Type (see page 10)	Cable group	Number of contacts	ø A (mm)	Contacts type		Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
									Solder	Crimp			
1B 1K		801	1	50	F	2	1	0.9	●	●	0.85	1.20	10
		803	1	50	F	2	3	0.9	●	●	0.75	1.05	10
2B 2K		802	1	50	A1	1-2-3	2	0.9	●	●	0.85	1.20	10
		804	1	50	A1	1-2-3	4	0.7	●	●	0.75	1.05	7
		806	1	50	A1	1-2-3	6	0.7	●	●	0.75	1.05	7
		810	1	50	C	1-2-3	10	0.7	●	●	0.95	1.35	7
		841	2	50	E	2	1	1.6	●	●	1.90	2.70	17
		232	2	50	G	–	–	–	–	–	–	–	–
		243	3	50	E	2	–	–	–	–	–	–	–
3B 3K		803	1	50	A0	6	3	0.9	●	–	1.10	1.55	8
		806	1	50	A1	1-2-3	6	0.7	●	●	1.00	1.50	7
		809	1	50	A1	1-2-3	9	0.7	●	●	1.00	1.50	7
		812	1	50	A1	1-2-3	12	0.9	●	●	0.80	1.10	5
		813	1	50	A1	1-2-3	13	0.7	●	●	0.90	1.30	7
		822	1	50	C	1-2-3	22	0.7	●	●	0.70	1.00	5
		844	2	50	C	1-2-3	4	0.9	●	●	0.90	1.30	10
		846	2	50	C	1-2-3	6	0.9	●	●	0.90	1.30	10
		850	2	50	C	1-2-3	10	0.7	●	●	0.75	1.05	8
		856	2	50	C	1-2-3	16	0.7	●	●	0.70	1.00	7
		242	2	50	C	1-2-3	–	–	–	–	–	–	–
		243	3	50	C	1-2-3	–	–	–	–	–	–	–
		862	3	50	C	1-2-3	2	0.9	●	●	1.10	1.60	9

● First choice alternative ○ Special order alternative

Mixed: multi coax, coax + LV

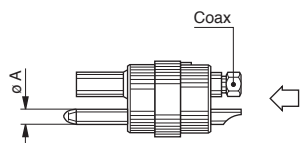
		Reference	Coax				Low voltage (LV)						
			Number of contacts	Impedance (Ω)	Type (see page 10)	Cable group	Number of contacts	Ø A (mm)	Contacts type		Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
									Solder	Crimp			
4B 4K		802 822	1	50 75	A A	5-6 4 to 6	2	0.9	●	●	1.00	1.40	12
		804 824	1	50 75	A A	5-6 4 to 6	4	0.9	●	●	1.00	1.40	10
		806 826	1	50 75	A A	5-6 4 to 6	6	0.9	●	●	1.00	1.40	10
		842	2	50	A1	1-2-3	2	0.9	●	●	1.70	2.40	12
		844	2	50	A1	1-2-3	4	0.9	●	●	1.70	2.40	10
		852	2	50	C	1-2-3	12	0.9	●	●	0.90	1.30	8
		856	2	50	C	1-2-3	16	0.9	●	●	0.90	1.30	8
		858	2	50	C	1-2-3	18	0.7	●	●	0.80	1.10	7
		866	3	50	C	1-2-3	6	0.7	●	●	0.80	1.10	7
		885	3	50	C	1-2-3	12	0.7	●	●	0.80	1.10	8
		244	4	50	C	1-2-3	–	–	–	–	–	–	–
		879	4	50	C	1-2-3	9	0.7	●	●	0.90	1.30	8
		890	6	50	E	2	18	0.7	●	○	0.90	1.30	5
		894	6	50	E	2	22	0.7	●	○	0.90	1.30	4
5B 5K		997¹⁾	1	75	A4	N/A	32	1.3	●	○	1.20	1.70	8
		840	1	50	A	5-6	40	0.9	●	●	1.30	1.80	7

● First choice alternative ○ Special order alternative

Note: ¹⁾ only available in 5B series. Solution for triaxial cable fixing.

Mixed: multi coax, coax + LV

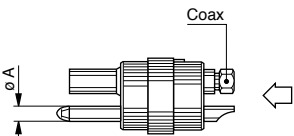
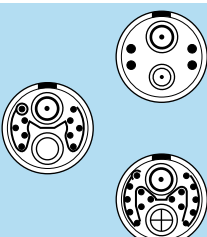
5B
5K



Reference	Coax				Low voltage (LV)						
	Number of contacts	Impedance (Ω)	Type (see page 10)	Cable group	Number of contacts	ø A (mm)	Contacts type		Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
							Solder	Crimp			
868 878	1	50 75	B B	6 3-5	4 44	3.0 0.9	●	○	0.80	1.15	35 6
850 870	2	50 75	B B	6 3-5	10	0.9	○	●	1.40	2.00	8
856 876	2	50 75	B B	6 3-5	16	0.9	○	●	1.40	2.00	7
857 877	2	50 75	B B	6 3-5	2 15	2.0 0.9	○ ○	● ●	1.40 1.40	2.00 2.00	30 7
864	2	75	B0	1-6	24	1.3	●	○	0.90	1.30	8
273	3	75	B1	5	—	—	—	—	—	—	—
274	4	75	B1	5	—	—	—	—	—	—	—
892	6	75	D	5-8-9	10	0.9	●	○	0.70	1.00	7
260	7	75	D	5-8-9	—	—	—	—	—	—	—
240	10	50	C	1-2-3	—	—	—	—	—	—	—

● First choice alternative ○ Special order alternative

Mixed: coax + LV + HV, coax + LV + Fluidic, coax + LV + Fibre optic

		Reference	Coax					Low volt. (LV)		High volt. (HV)		Fibre optic (FO)		Fluidic (FL)	
			Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 10)	Cable group	Number of contacts	ø A (mm)	Number of contacts	ø A (mm)	Number of contacts	Type	Number of contacts	Inner tube ø (mm)
2B 2K		932	1	50	2.0	C	1	2 ¹⁾	0.7	1 ²⁾	0.7	-	-	-	-
		934	1	50	2.0	C	1	4	0.9	1	0.9	-	-	-	-
3B 3K		970	1	50	2.0	C	1	10	0.7	-	-	-	-	1	1.3
		986	1	50	2.0	C	1	16	0.7	-	-	1	F2	-	-

Note: ¹⁾ Test voltage LV contact-shell 1.9 (kV rms). ²⁾ Test voltage HV contact-shell 7.5 (kV rms). Total rated current for 2B.932 configuration 6 (A).

Collet nut for fitting a bend relief (B and K series)

D type collets for B series

	Clamping	Coax cable groupe		
		1	2	3
B	D52Z	D51Z	D52Z	D53Z
	D62Z	D61Z	D62Z	D63Z
	D92Z	D91Z	D92Z	D93Z
	D10Z	D01Z	D02Z	D03Z
	D11Z	D11Z	D12Z	D13Z
	D12Z	D21Z	D22Z	D23Z

C type collets for K series

	Clamping	Coax cable groupe		
		1	2	3
K	C50Z	C51Z	C52Z	C53Z
	C55Z	C56Z	C57Z	C58Z
	C80Z	C81Z	C82Z	C83Z
	C85Z	C86Z	C87Z	C88Z
	C90Z	C91Z	C92Z	C93Z
	C95Z	C96Z	C97Z	C98Z
	C10Z	C01Z	C02Z	C03Z
	C11Z	C11Z	C12Z	C13Z
	C12Z	C21Z	C22Z	C23Z
	C13Z	C31Z	C32Z	C33Z
	C14Z	C41Z	C42Z	C43Z

Note: see unipole-multipole catalogue for others available collets.

Coaxial contacts for B and K series

Type	Impedance (Ω)	ϕ A (mm)	Cond. fixing	Screen fixing	Cable group	Mini Cond. ϕ maxi Maxi	Dielectric ϕ maxi	Sheath ϕ		VSWR ($f \approx$ GHz)	Test voltage (kV rms)	Rated current (A)
								Mini	Maxi			
F ^{1) 3)}	50	0.5	solder	crimp	2	0.35	1.05	–	2.10	1.05 +1.83f	0.8	2
A1	50	0.7	solder	collet	1 2 3	0.60 0.60 0.60	1.90 1.90 1.90	2.5 1.7 2.2	3.00 2.10 2.60	1.01 +0.127f	0.9	5
C ¹⁾	50	0.6	crimp	crimp	1 2 3	0.50 0.58 0.28 0.35 0.28 0.35	1.65 1.05 1.65	–	3.00 2.35 3.00	1.04 +0.1f	1.6	2
E ^{1) 3)}	50	0.5	solder	crimp	2	0.35	0.95	–	2.00	1.02 +0.93f	0.8	2
A	50	1.6	solder	collet	5 6	1.35 1.35	3.95 3.95	4.3 5.3	5.10 6.10	1.01 +0.146f	1.8	12
	75	1.3	solder	collet	4 5 6	1.05 1.05 1.05	3.95 3.95 3.95	3.8 4.3 5.3	4.60 5.10 6.10	1.01 +0.19f	2.4	7
A4	75	1.3	solder	collet	none	1.05	3.95	6.7	7.60	1.01 +0.19f	2.4	7
B ¹⁾	50	0.9	solder	crimp	6	1.05	3.75	–	6.25	1.06 +0.156f	0.8	11
	75	0.6	solder	crimp	3 5	0.80 0.80	2.45 3.75	–	6.25	1.00 +0.22f	2.1	6
B0	75	0.6	solder	solder	1 6	0.75 0.75	2.95 3.75	–	4.25	1.00 +0.22f	2.1	6
B1 ¹⁾	75	0.6	crimp	crimp	5	0.55 0.80	3.75	–	6.25	1.00 +0.22f	2.1	6
D ¹⁾	75	0.5	solder	crimp	5 8 9	0.75 0.75 0.75	3.75 2.45 3.00	–	5.40 3.90 4.90	1.00 +0.38f	1.0	5
G ³⁾	50	0.5	solder	crimp	1	0.35	1.65	–	3.00	1.01 +0.73f	0.4	2
A0	50	1.3	solder	collet	6	0.95	–	3.3	4.10	1.02 +0.3f ²⁾	3.0	12

Note:

¹⁾ These contacts require specific tools for assembly on the cable, see page 11.

²⁾ Frequency range with SWR $\leq 1.2 = 0 - 1.5$ GHz.

³⁾ Coax contact design differs, the central pin is reverse gender.

Recommended coaxial cables for mixed coax, multi coax for B and K Series

LEMO cable Part Number	Type	LEMO cable group	Impedance (Ω)	Conductor ϕ (mm)	Dielectric ϕ (mm)	Screen ϕ (mm)	Sheath ϕ (mm)
	RG 6 A/U	7	75 ± 3	0.73	4.70	6.20	8.45
311 100 LEDE	RG 11 A/U	9	75 ± 2	1.17	7.25	8.15	10.10
CCX.50.RG5.8CU50N	RG 58 C/U	6	50 ± 2	0.90	2.95	3.60	5.00
CCX.50.RG5.9BU62N	RG 59 B/U	5	75 ± 3	0.60	3.70	4.50	6.20
CCX.50.RG1.74AU27N	RG 174 A/U	1	50 ± 2	0.48	1.50	2.00	2.80
CCX.50.RG1.78BU18M	RG 178 B/U	2	50 ± 2	0.30	0.84	1.30	1.80
CCX.75.RG1.79BU26M	RG 179 B/U	3	75 ± 3	0.30	1.50	2.00	2.50
	RG 180 B/U	4	95 ± 5 ¹⁾	0.30	2.60	3.10	3.60
CCX.75.RG1.87AU26B	RG 187 A/U	2	75 ± 3	0.30	1.50	2.00	2.60
CCX.50.RG1.88AU26B	RG 188 A/U	1	50 ± 2	0.54	1.50	2.00	2.60
CCX.50.RG1.96AU20B	RG 196 A/U	1	50 ± 2	0.30	0.84	1.30	1.95
CCX.50.RG3.16U26M	RG 316 /U	1	50 ± 2	0.60	1.60	2.10	2.80

Note: ¹⁾ when no defined impedance is required.

The cable group number corresponding to the chosen cable must be written in the variant position, see pages 3 and 5.

Tooling for coaxial contacts of B and K series

Coaxial contact type	Imp. Ω	Cable group	Reference		
			Crimping tool with die	Spanner for tightening the contact	Extractor
F	50	2	DPE.99.025.45K	DCC.91.019.1AK	–
C ¹⁾	50	1-3	DPE.99.103.8K	–	DCC.91.384.5LA
	50	2	DPE.99.103.1K	–	DCC.91.384.5LA
E	50	2	DPE.99.002.5K	DCC.91.050.2LA	–
B	50	6	DPE.99.176.2K	–	DCC.91.804.5LA
	75	3	DPE.99.125.2K	–	DCC.91.804.5LA
	75	5	DPE.99.127.0K	–	DCC.91.804.5LA
B1	75	5	DPE.99.127.0K	–	DCC.91.808.0LC
D	75	5	DPE.99.006.2K	DCB.91.685.8TN	–
	75	8	DPE.99.005.2K	DCB.91.685.8TN	–
	75	9	DPE.99.005.5K	DCB.91.685.8TN	–

Note: ¹⁾ for the 3B.243/3K.243 and 3B.862/3K.862 the extractor is part number DCC.91.393.4LT.

00.650 Series

The 00 Series are available in triax configuration, allowing a very compact solution for triaxial cables.

These connectors are designed for small diameter ranging from 1.1 to 3.5 mm.

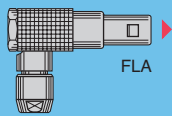
Either twinax (2 shielded connectors) or triax (1 conductor and 2 concentric separate screens) can be used with the 00 Series. The 00 Series with a 650 configuration insert are mostly used in audio-video applications where a large density of connection is required.

LEMO 00 Series connectors offer customers many benefits including:

- self-latching push-pull system
- aesthetically pleasing appearance
- small size
- high packing density
- rugged construction.
- ease of use
- low weight
- reliable performances
- wide choice to suit application

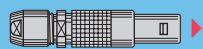
Metal housing models

Elbow plug

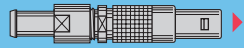


FLA

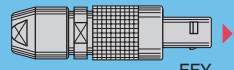
Straight plugs



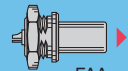
FFC



FFC



FFY

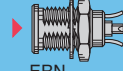


FAA



FAR

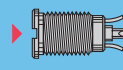
Fixed and free sockets



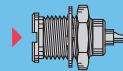
ERN



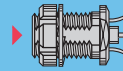
ECP



ERX



ERC



ELF

Free socket

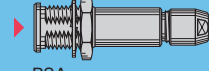


PCA



EPL

Fixed socket



PSA

Plastic housing model

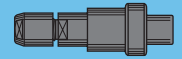
Straight plug



FFC

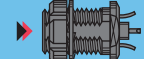
Threaded latching models

Straight plug



FVN

Fixed socket



ELF

Model Description

ECP Fixed socket with 2 round nuts (back panel mounting)

ELF Fixed socket, nut fixing, threaded shell with tag (back panel mounting)

ELF Fixed socket, nut fixing, threaded shell with tag, black chromium-plated outer shell (back panel mounting)

EPA Straight socket for printed circuit board

EPL Elbow plug (90°) for printed circuit board

ERC Fixed socket, with thread, with slots in flange

ERN Fixed socket with nut fixing and tags

ERX Fixed socket with nut fixing, slots on flange and tags

FAA Straight plug non latching with nut

FAR Straight plug non latching with 2 nuts (back panel mounting)

FFC Straight plug with flats on latch sleeve and cable collet

FFC Straight plug with flats on latch sleeve and cable collet and nut for fitting a bend relief

FFC Straight plug with flats on latch sleeve and cable collet, black POM (Delrin®) outershell)

FFY Straight plug, large shell with cable collet

FLA Elbow socket (90°) with cable collet

FVN Straight plug with cable collet, black chromium-plated outer shell

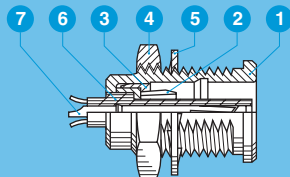
PCA Free socket with cable collet

PSA Fixed socket, nut fixing, cable collet

Part Section Showing Internal Components

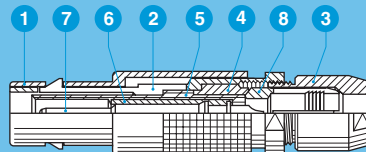
Fixed socket

- 1 outer shell
- 2 earthing crown
- 3 retaining ring
- 4 hexagonal nut
- 5 locking washer
- 6 insulator
- 7 female triaxial contact

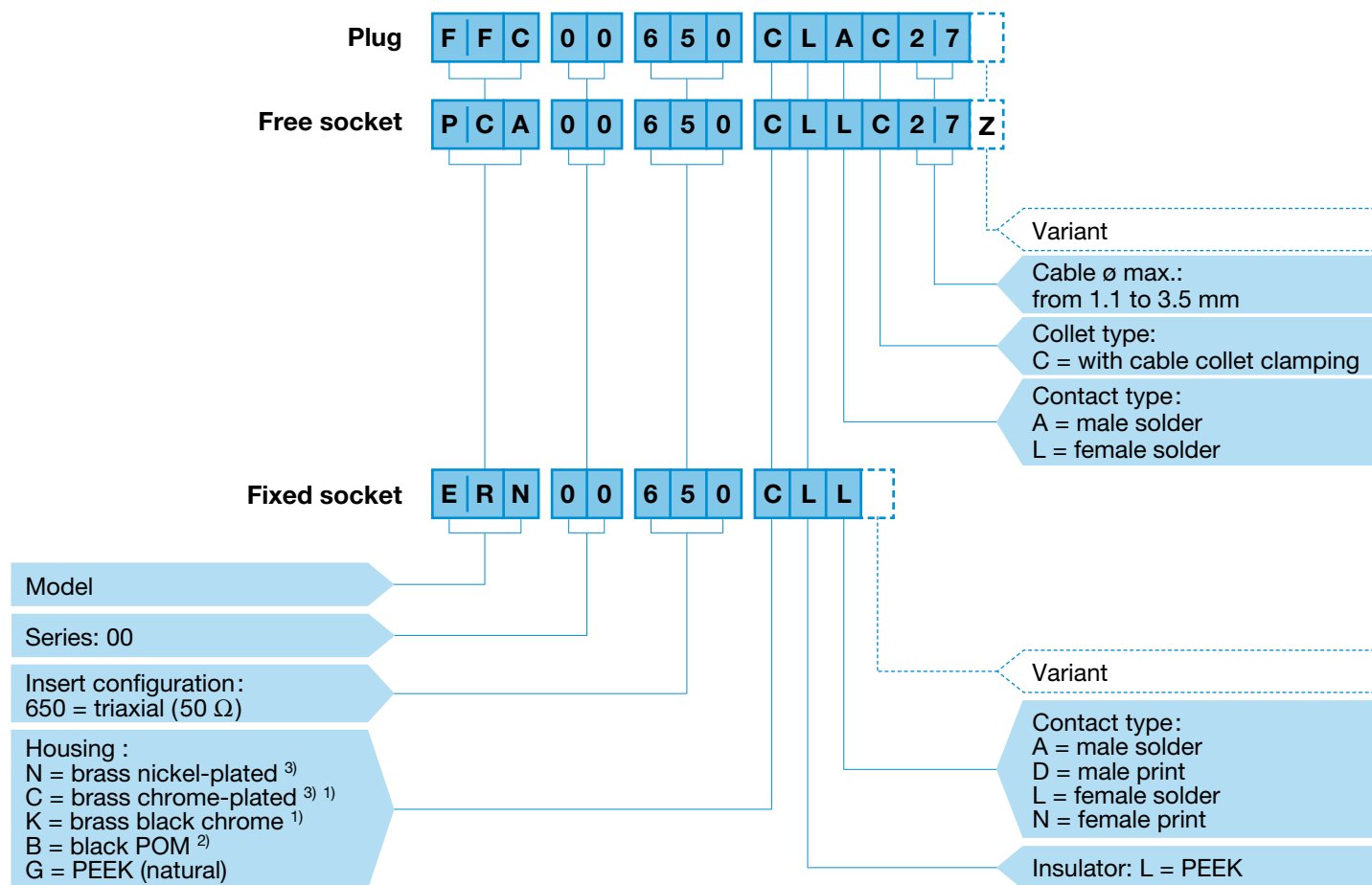


Straight plug

- 1 outer shell
- 2 latch sleeve
- 3 collet nut
- 4 earthing sleeve
- 5 rear insulator
- 6 insulator
- 7 male triaxial contact
- 8 collet



Part Numbering System



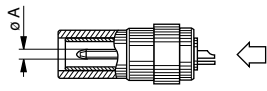
FFC.00.650.CLAC27 = straight plug with flats on latch sleeve and cable collet, 00 Series, triaxial (50 Ω), outer shell in chrome-plated brass, PEEK insulator, C type collet for an up to 2.6 mm diameter cable.

PCA.00.650.CLLC27Z = free socket with cable collet, 00 Series, triaxial (50 Ω), outer shell in chrome-plated brass, PEEK insulator, C type collet for an up to 2.6 mm diameter cable and nut for fitting a bend relief.

ERN.00.650.CLL = fixed socket with nut fixing and tags, 00 Series, triaxial (50 Ω), outer shell in chrome-plated brass, PEEK insulator.

Note: ¹⁾ treatment not available for the printed circuit models. ²⁾ available for the FFC model only. ³⁾ standard.

Insert configuration

		Reference	Series		Impedance (Ω)	ø A (mm)	Cable group	Cond. ø max	Dielectric ø maxi	Sheath ø maxi	VSWR (f=GHz)	Test voltage (kV rms)	Rated current (A)
			Standard	Watertight									
650		00	-	50	0.5	1)	0.55	2.9	3.5	1.02 +0.9f	0.6	4	

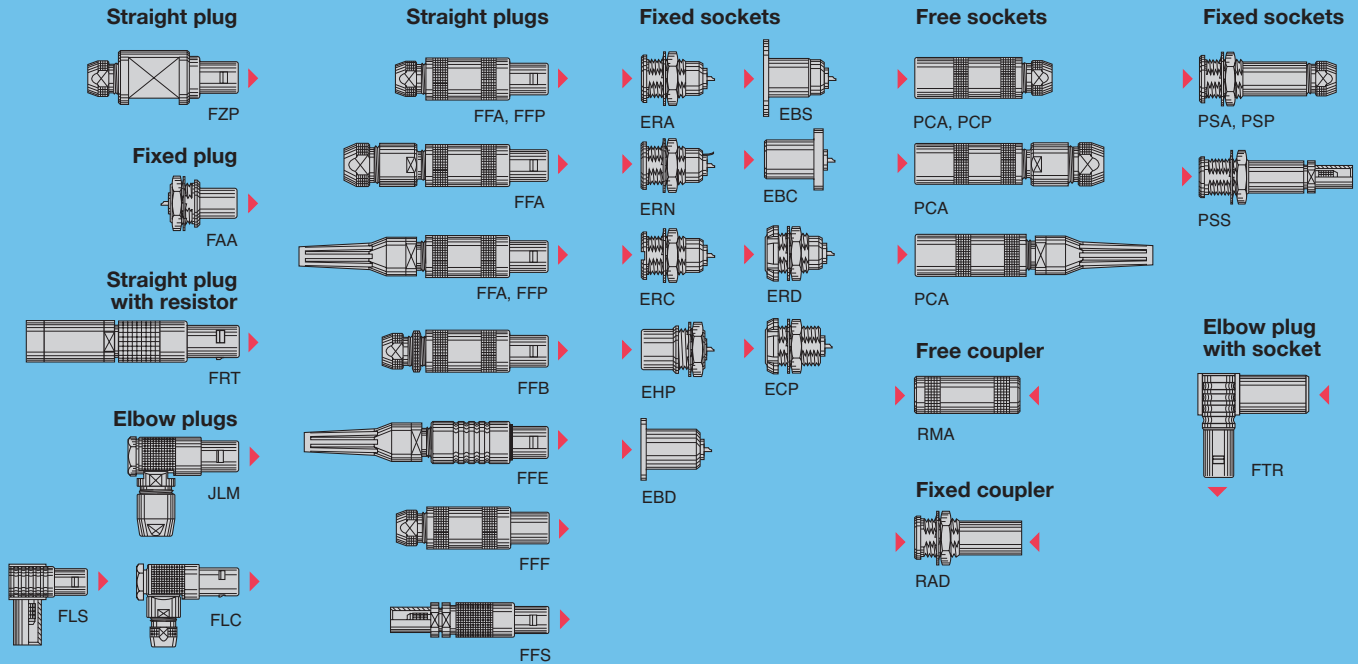
Note: ¹⁾ 00.650 is designed for use with 2 conductors screened cable (twinax).

S Series

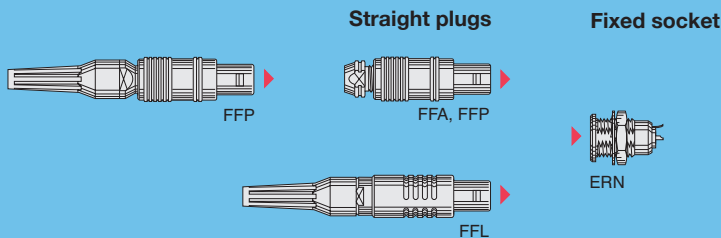
S series connectors have main features as follows:

- security of the Push-Pull self-latching system
- solder contacts, print contacts only for coaxial and triaxial configurations
- 360° screening for full EMC shielding.
- coaxial, triaxial and mixed contact configurations
- polarisation by stepped insert (half-moon)
- up to 8 coaxial contacts

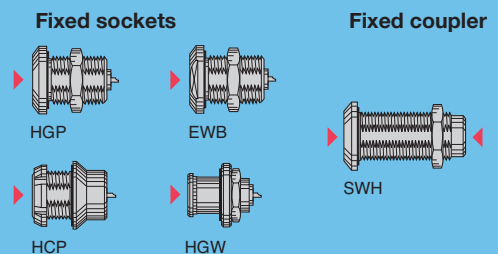
Metal housing models



Plastic housing models



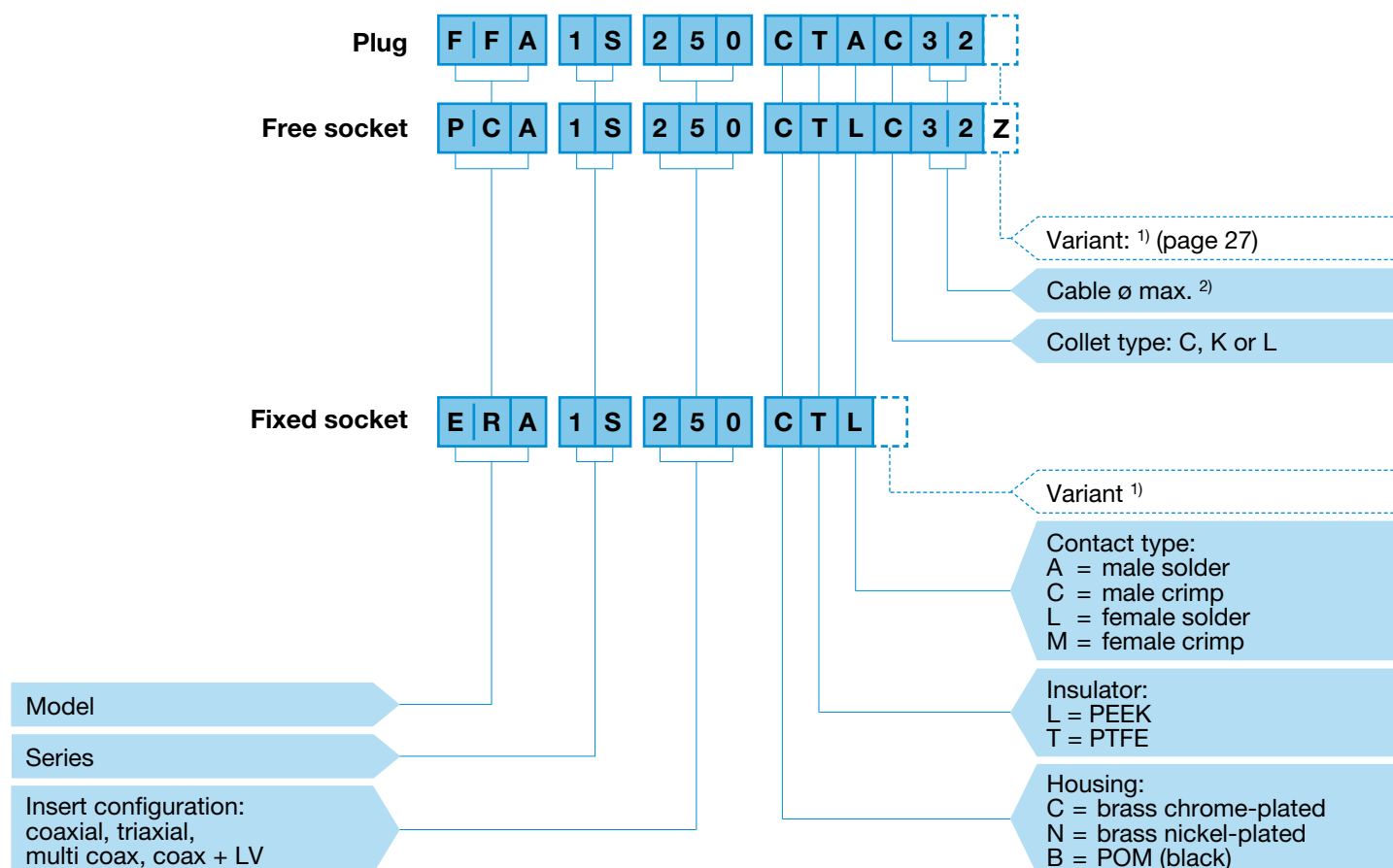
Watertight or vacuumtight models



Model Description

- EBC** Fixed socket with square flange, protruding shell and screw fixing
- EBD** Fixed socket with square flange, screw fixing
- EBS** Fixed socket with round flange, screw fixing
- ECP** Fixed socket with two nuts, long threaded shell (back panel mounting)
- EHP** Fixed socket, nut fixing, protruding shell
- ERA** Fixed socket, nut fixing
- ERC** Fixed socket, nut fixing, slot in the flange
- ERD** Fixed socket with two nuts (back panel mounting)
- ERN** Fixed socket, nut fixing, with earthing tag
- ERN** Fixed socket, nut fixing, with earthing tag, PEEK or POM outer shell
- EWB** Fixed socket, nut fixing, with two flats on the flange, watertight or vacuumtight
- FAA** Fixed plug non-latching, nut fixing
- FAA** Straight plug, cable collet
- FFA** Straight plug with oversize cable collet
- FFA** Straight plug, cable collet and nut for fitting a bend relief
- FFA** Straight plug, cable collet
- FFB** PEEK or POM outer shell
- FFB** Straight plug, cable collet and safety locking ring
- FFE** Straight plug, cable collet, front seal and nut for fitting a bend relief (protected to IP54 when mated)
- FFF** Straight plug, non-latching, cable collet
- FFP** Straight plug, cable collet
- FFP** Straight plug, cable collet, PEEK or POM outer shell and inner anti-rotating device
- FFP** Straight plug, cable collet, PEEK or POM outer shell, inner anti-rotating device and nut for fitting a bend relief
- FFS** Straight plug for cable crimping
- FLC** Elbow (90°) plug, cable collet
- FLC** Elbow (90°) plug, cable collet and nut for fitting a bend relief
- FLS** Elbow (90°) plug for cable crimping
- FRT** Straight plug with resistor
- FTR** Elbow (90°) plug with socket
- FZP** Straight plug for remote handling, cable collet and inner anti-rotating device
- HCP** Fixed socket, nut fixing, watertight or vacuumtight (back panel mounting)
- HGP** Fixed socket, nut fixing, watertight or vacuumtight
- HGW** Fixed socket, nut fixing, with back washer, watertight or vacuumtight
- JLM** Elbow (90°) plug, cable collet
- PCA** Free socket, cable collet
- PCA** Free socket with oversize cable collet
- PCA** Free socket, cable collet and nut for fitting a bend relief
- PCP** Free socket, cable collet and inner anti-rotating device
- PSA** Fixed socket, nut fixing, cable collet
- PSP** Fixed socket, nut fixing, cable collet and inner anti-rotating device
- PSS** Free socket, nut fixing for cable crimping
- RAD** Fixed coupler, nut fixing
- RMA** Free coupler
- SWH** Fixed coupler, nut fixing, watertight or vacuumtight

Part Numbering System



FFA.1S.250.CTAC32 = straight plug with cable collet, 1S series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator, male solder contact, C type collet for a 3.2 mm diameter cable.

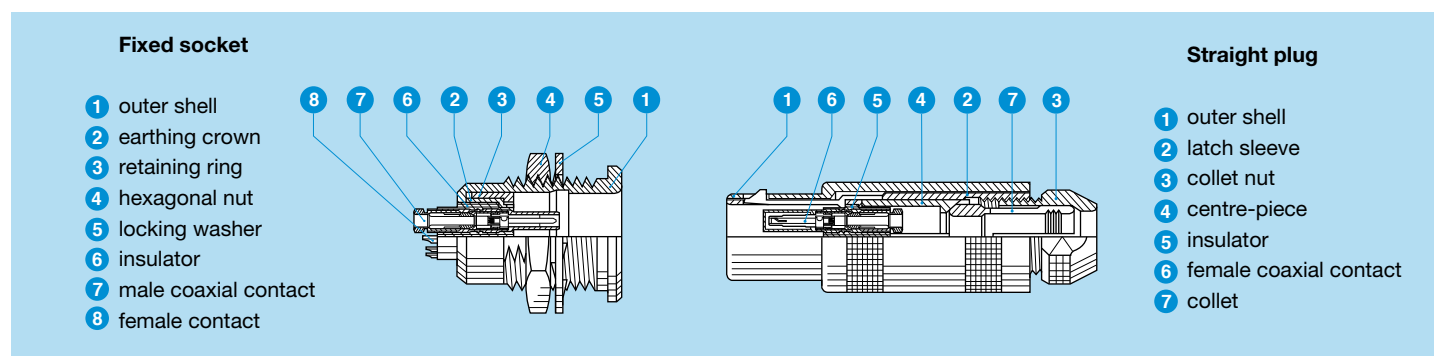
PCA.1S.250.CTLC32Z = free socket with cable collet, 1S series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator, female solder contact, C type collet for a 3.2 mm diameter cable and nut for fitting a bend relief.

ERA.1S.250.CTL = fixed socket, nut fixing, 1S series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator, female solder contact.

Note: ¹⁾ for mixed contacts, add cable group to the part number.

²⁾ see unipole-multipole catalogue.

Part Section Showing Internal Components (mixed coax + LV)



E Series

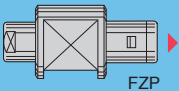
E series connectors have been specifically designed for outdoor applications.

They include an inner sleeve and two seals to prevent penetration of solids or liquids into the housing formed by the plug, free socket or fixed socket. All models of these series are watertight when mated and give a protection index of IP 68 as per IEC 60529 standard (in mated condition) when correctly assembled to an appropriate cable (IP 66 otherwise).

- security of the Push-Pull latching system
- watertight connection (IP 68/IP 66)
- solder contacts, print contacts only for coaxial and triaxial configurations
- coaxial, triaxial and mixed contact configurations
- polarization by stepped insert (half-moon)
- 360° screening for full EMC shielding
- rugged housing for extreme working condition.

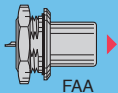
Models

Straight plug



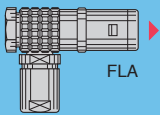
FZP

Fixed plug



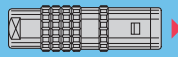
FAA

Elbow plug

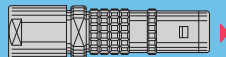


FLA

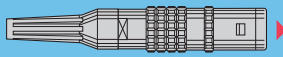
Straight plugs



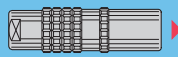
FFA



FFA

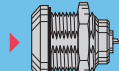


FFA

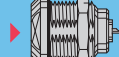


FFF

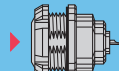
Fixed sockets



ERA



ERB

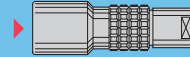


EEP

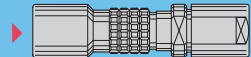


EHP

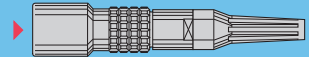
Free sockets



PCA

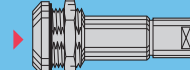


PCA



PCA

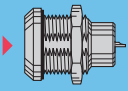
Fixed socket



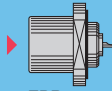
PSA

Watertight or vacuumtight models

Fixed sockets

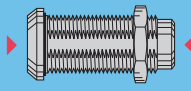


HGP



EBR

Fixed coupler



SWH

Free coupler



RMA

Model Description

EBR Fixed socket with round flange, watertight, protruding shell and screw fixing

EEP Fixed socket, nut fixing (back panel mounting)

EHP Fixed socket, nut fixing, protruding shell

ERA Fixed socket, nut fixing

ERB Fixed socket, nut fixing with two flats in the flange

FAA Fixed plug non-latching, nut fixing

FFA Straight plug, cable collet

FFA Straight plug with oversize cable collet

FFA Straight plug, cable collet

and nut for fitting a bend relief

FFF Straight plug non-latching, cable collet

FLA Elbow (90°) plug, cable collet

FZP Straight plug for remote handling, cable collet and inner anti-rotating device

HGP Fixed socket, nut fixing, watertight or vacuumtight

PCA Free socket, cable collet

PCA Free socket with oversize cable collet

PCA Free socket, cable collet

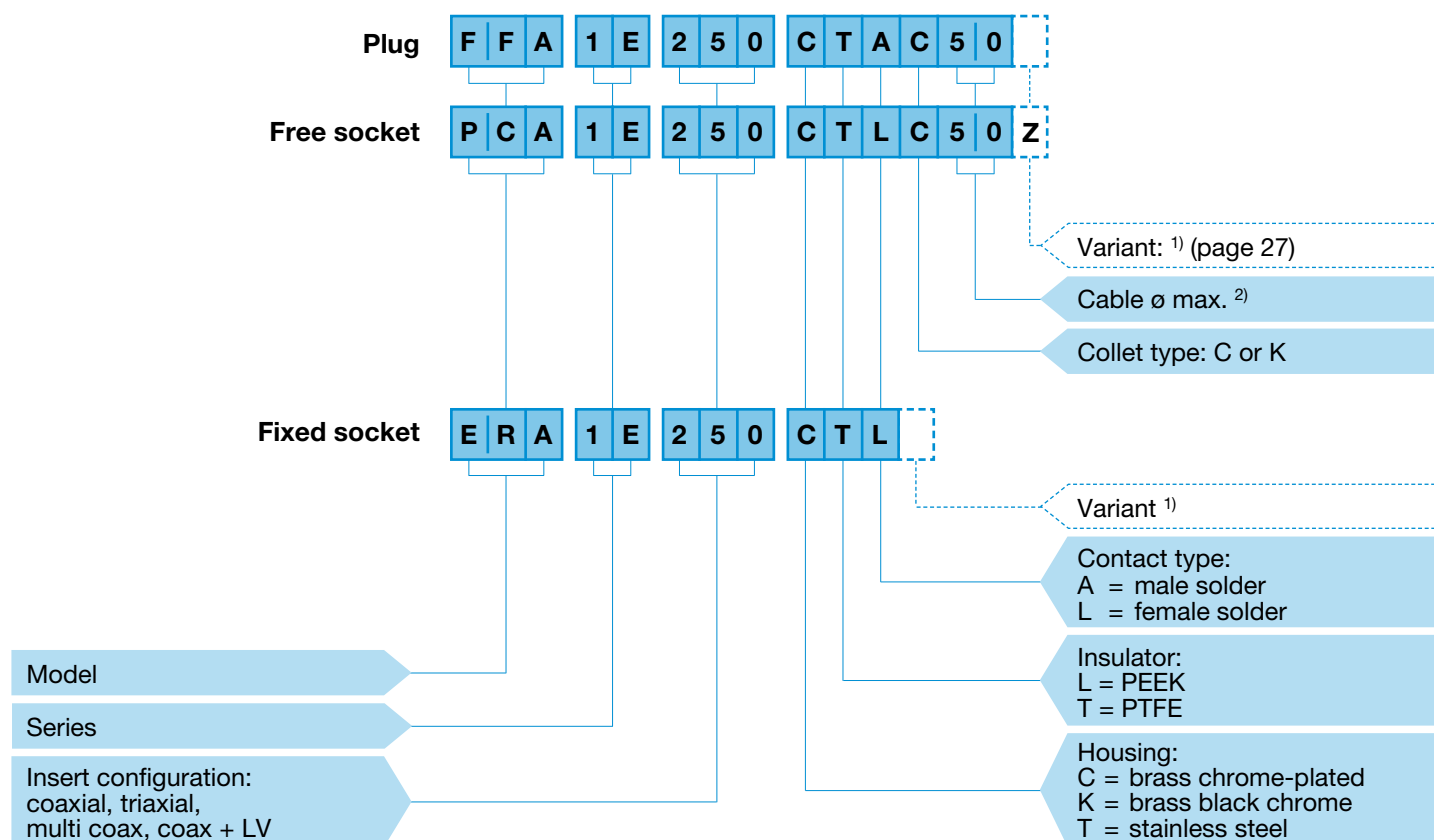
and nut for fitting a bend relief

PSA Fixed socket, nut fixing, cable collet

RMA Free coupler

SWH Fixed coupler, nut fixing, watertight or vacuumtight

Part Numbering System



FFA.1E.250.CTAC50 = straight plug with cable collet, 1E series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator, C type collet for an up to 5.0 mm diameter cable.

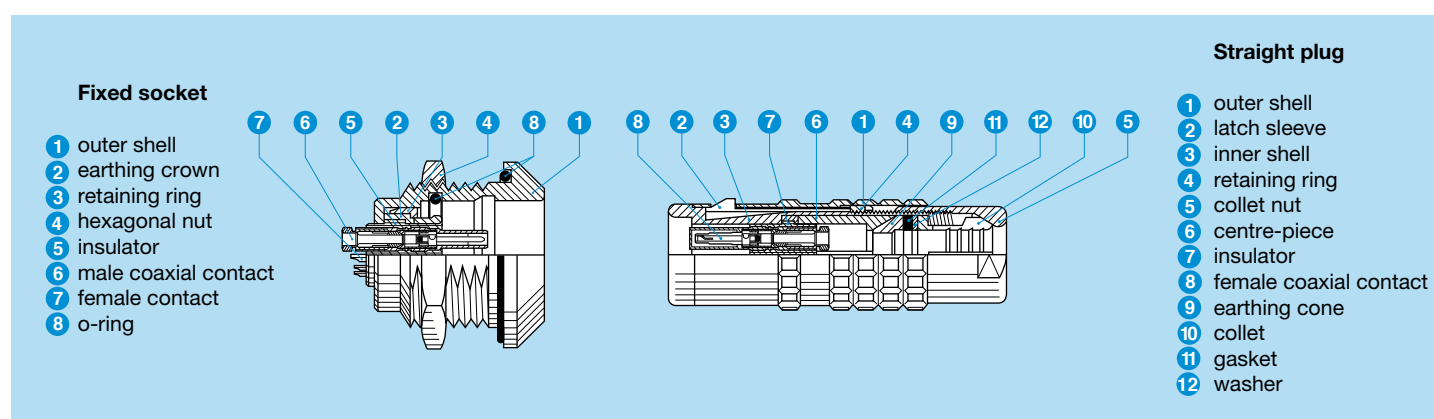
PCA.1E.250.CTLC50Z = free socket with cable collet, 1E series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator, C type collet for an up to 5.0 mm diameter cable and collet nut for fitting a bend relief.

ERA.1E.250.CTL = fixed socket, nut fixing, 1E series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator.

Note: ¹⁾ for mixed contacts, add cable group to the part number.

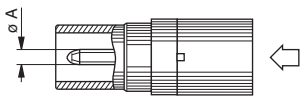
²⁾ see unipole-multipole catalogue.

Part Section Showing Internal Components (mixed coax + LV)



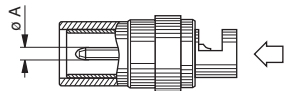
Insert configuration (S and E series)

Coaxial

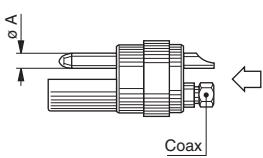
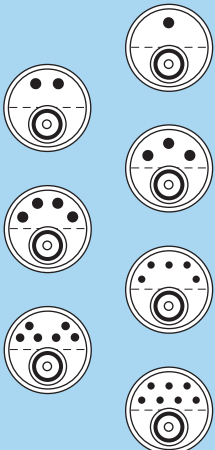
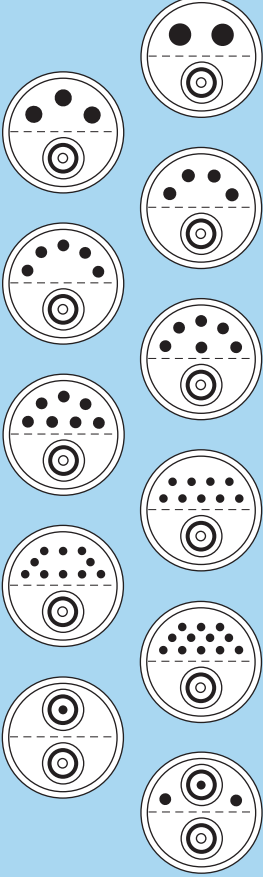
		Reference	Series		Impedance (Ω)	ø A (mm)	Cable group	Cond. ø max	Dielectric ø maxi	Sheath ø		VSWR (f=GHz)	Test voltage (kV rms)	Rated current (A)
			Standard	Watertight						Maxi S series	Maxi E series			
00		250 ¹⁾	00	–	50	0.7	1 to 9	1.05	3.05	5.5		1.09 +0.11f	2.1	4
		250	0S	0E	50	0.9	1-2 3-4	0.95	2.95	6.7	5.0	1.02 +0.25f	3.0	6
1S 1E		250	1S	1E	50	1.6	1-2 3-4	1.35	3.95	8.5	8.5	1.01 +0.23f	3.0	12
		275	1S	1E	75	1.3	5-6-7	1.05	3.95	8.5	8.5	1.02 +0.08f	2.4	10
2S 2E		250	2S	2E	50	2.0	6-7	1.75	5.95	10.5	10.5	1.01 +0.95f	3.0	15
		275	2S	2E	75	1.6	6-7	1.35	5.95	10.5	10.5	1.02 +0.03f	1.5	12
3S 3E		250	3S	3E	50	3.0	8	2.65	8.15	13.0	15.0	1.06 +0.5f	3.0	26
		275	3S	3E	75	2.0	8	1.75	8.15	13.0	15.0	1.04 +0.05f	2.7	15
4S 4E		250	4S	4E	50	4.0	8-9	3.65	10.05	22.0	23.5	1.01 +1.9f	2.1	36
		275	4S	4E	75	3.0	8-9-0	2.65	10.05	22.0	23.5	1.01 +0.12f	1.8	26
5S		250	5S	–	50	5.0	9	5.15	17.45	30.0	30.0	1.02 +2.3f	3.0	45

Note: ¹⁾ see NIM-CAMAC catalogue.

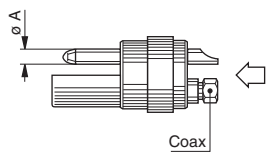
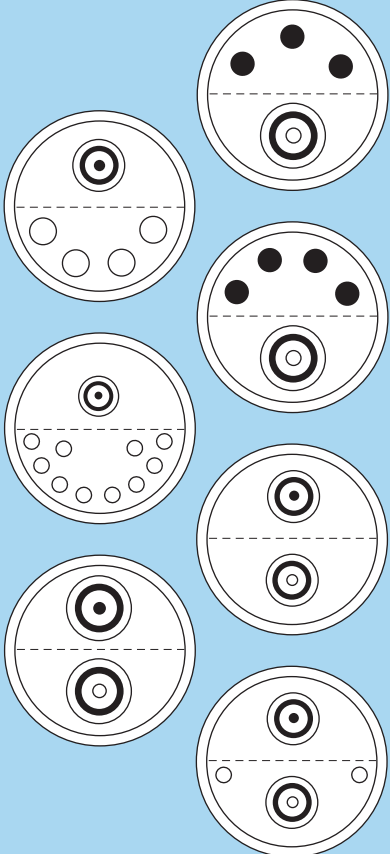
Triaxial

		Reference	Series		Impedance (Ω)	ϕ A (mm)	Cable group	Cond. ϕ max	Dielectric ϕ max	Sheath ϕ		VSWR (f =GHz)	Test voltage (kV rms) (contact/screen)	Rated current (A)
			Standard	Watertight						Maxi S series	Maxi E series			
														
0S 0E		650	0S	0E	50	0.9	1-2	0.75	2.95	6.7	5.0	1.03 +0.34f	1.0	6
1S 1E		650	1S	1E	50	0.9	1-2-3	0.75	3.95	8.5	8.5	1.01 +0.17f	1.0	6
2S 2E		650	2S	2E	50	1.6	2-3-4	1.35	5.95	10.5	10.5	1.01 +0.3f	1.5	12
		675	2S	2E	75	0.9	4-6	0.75	5.95	10.5	10.5	1.01 +0.07f	1.5	6
3S 3E		650	3S	3E	50	2.0	3-4-5	1.75	8.45	13.0	15.0	1.01 +0.27f	2.4	15
		675	3S	3E	75	0.9	4-5	0.75	8.45	13.0	15.0	1.01 +0.05f	1.8	6
4S 4E		650	4S	4E	50	3.0	4-5	2.65	10.05	22.0	23.5	1.01 +0.38f	2.7	26
		675	4S	4E	75	2.0	4-5-7	2.25	10.05	22.0	23.5	1.01 +0.14f	2.2	15

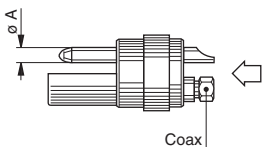
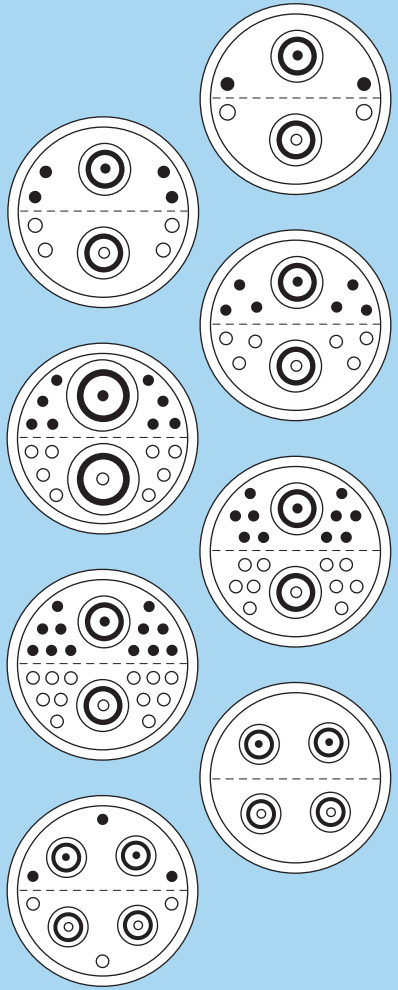
Mixed: coax + LV, multi coax

		Reference	Series		Coaxial					Low voltage				
			Standard	Watertight	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ø A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
3S 3E		801	3S	3E	1	50	5	A1	1-2-3	1	1.3	2.7	3.9	14
		802	3S	3E	1	50	5	A1	1-2-3	2	1.3	1.2	1.8	14
		803	3S	3E	1	50	5	A1	1-2-3	3	1.3	2.7	3.9	14
		804	3S	3E	1	50	5	A1	1-2-3	4	1.3	1.2	1.8	10
		805	3S	3E	1	50	5	A1	1-2-3	5	0.9	1.8	2.4	8
		806	3S	3E	1	50	5	A1	1-2-3	6	0.9	0.8	1.2	8
		807	3S	3E	1	50	5	A1	1-2-3	7	0.9	0.8	1.2	7
4S 4E		802	4S	4E	1	50	5	A1	1-2-3	2	3.0	2.1	3.0	21
		803	4S	4E	1	50	5	A1	1-2-3	3	2.0	2.1	3.0	16
		804	4S	4E	1	50	5	A1	1-2-3	4	1.3	2.7	3.9	13
		805	4S	4E	1	50	5	A1	1-2-3	5	1.3	2.1	3.0	11
		806	4S	4E	1	50	5	A1	1-2-3	6	1.3	2.1	3.0	9
		807	4S	4E	1	50	5	A1	1-2-3	7	1.3	2.1	3.0	8
		809	4S	4E	1	50	5	A1	1-2-3	9	0.9	2.1	3.0	7
		810	4S	4E	1	50	5	A1	1-2-3	10	0.9	2.1	3.0	7
		812	4S	4E	1	50	5	A1	1-2-3	12	0.9	2.1	3.0	7
		202	4S	4E	2	50	5	A1	1-2-3	–	–	–	–	–
		832	4S	4E	2	50	5	A1	1-2-3	2	1.3	2.1	3.0	13

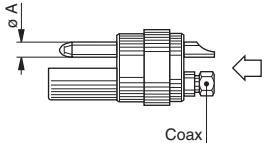
Mixed: coax + LV, multi coax

		Reference	Series		Coaxial					Low voltage				
			Standard	Watertight	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ϕ A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
		834	4S	4E	2	50	5	A1	1-2-3	4	1.3	2.1	3.0	13
		836	4S	4E	2	50	5	A1	1-2-3	6	0.9	1.8	2.4	7
		838	4S	4E	2	50	5	A1	1-2-3	8	0.9	1.8	2.4	7
		842	4S	4E	2	50	5	A1	1-2-3	12	0.9	1.8	2.4	7
		803	–	5E	1	50	12	A	4-6	3	3.0	3.0	4.2	25
		804	5S	–	1	50	6	A0	1-3-4	4	3.0	2.1	3.0	22
		804	–	5E	1	75	7	A	3-4-5	4	3.0	2.1	3.0	22
		810	5S	5E	1	50	5	A1	1-2-3	10	1.6	1.8	2.4	11
		232	5S	–	2	50	6	A0	1-3-4	–	–	–	–	–
		282 292	5S	5E	2	50 75	12 7	A	4-6 3-4-5	–	–	–	–	–
		832	5S	5E	2	50	6	A0	1-3-4	2	2.0	2.1	3.0	18

Mixed: coax + LV, multi coax

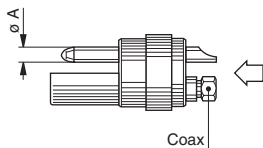
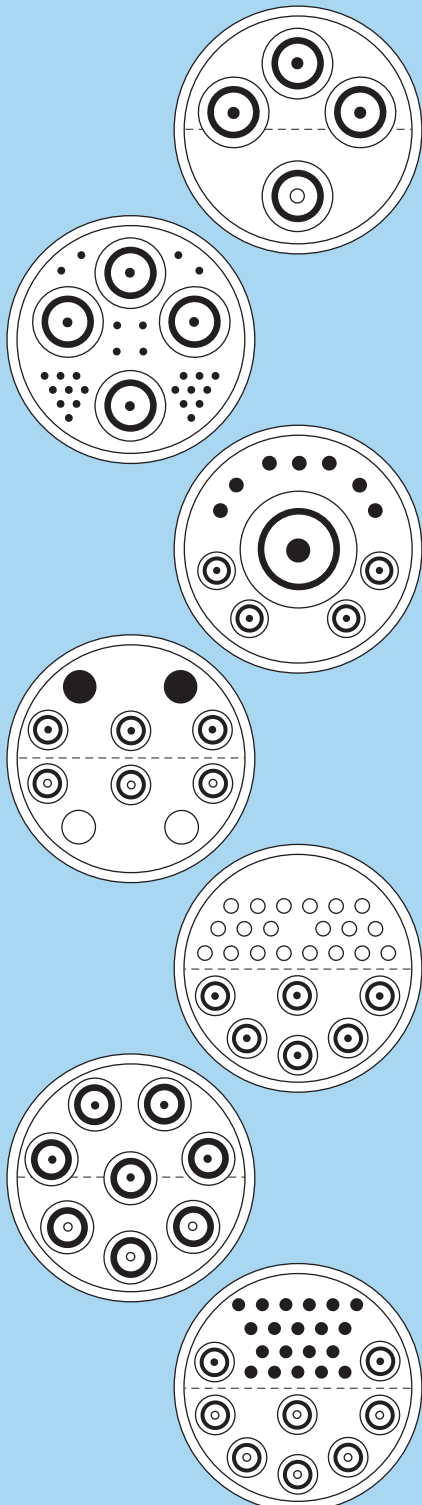
		Reference	Series		Coaxial					Low voltage				
			Standard	Watertight	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ϕ A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
5S 5E 		834	5S	5E	2	50	6	A0	1-3-4	4	2.0	2.1	3.0	18
		838	5S	–	2	50	6	A0	1-3-4	8	1.6	1.8	2.4	12
		842	5S	5E	2	50	6	A0	1-3-4	12	1.3	1.8	2.4	9
		846	–	5E	2	75	7	A	3-4-5	16	1.3	0.8	1.2	8
		850	5S	–	2	50	6	A0	1-3-4	20	1.3	0.8	1.2	7
		854	5S	–	2	50	6	A0	1-3-4	24	1.3	0.8	1.2	6
		234	5S	5E	4	50	5	A1	1-2-3	–	–	–	–	–
		876	5S	5E	4	50	5	A1	1-2-3	6	1.3	0.8	1.2	6

Mixed: coax + LV, multi coax

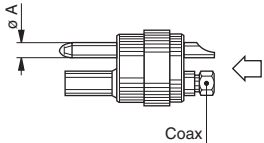
		Reference	Coaxial					Low voltage				
			Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ϕ A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
6S		826	1	75	7	A	3-4-5	26	2.0	1.5	2.1	7
		830	1	75	7	A	3-4-5	4 30	3.0 1.6	1.5 1.5	2.1 2.1	14 5
		858	2	75	7	A	3-4-5	6 6 5 17	1.3 1.6 2.0 1.9	1.2 1.2 1.2 1.2	1.8 1.8 1.8 1.8	4 5 10 2
		859	2	50	5	A1	1-2-3	36 4	1.3 3.0	1.2 1.2	1.8 1.8	4 14
		866	3	50	6	A0	1-3-4	26	2.0	1.5	2.1	7
		867	3	75	7	A	3-4-5	49 2	0.9 1.6	1.2 1.2	1.8 1.8	2 5
		883	4	50	4	A1	1-2-3	30	1.6	1.5	2.1	5

Mixed: coax + LV, multi coax

6S

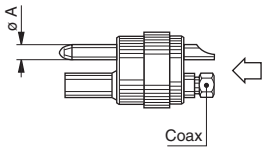
		Reference	Coaxial					Low voltage				
			Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ø A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
	284 294	4	50 75	12 7	A	4-6 3-4-5	—	—	—	—	—	
	882	4	75	7	A	3-4-5	26	0.9	0.8	1.2	2	
	887	1 4	50 50	26 5	A3 A1	7 3 } 9	7	2.0	1.5	2.1	10	
	890	6	50	5	A1	1-2-3	4	4.0	1.5	2.1	16	
	893	6	50	5	A1	1-2-3	20	1.6	1.5	2.1	5	
	238	8	50	6	A0	1-3-4	—	—	—	—	—	
	899	8	50	5	A1	1-2-3	20	1.6	1.5	2.1	5	

Mixed: coax + LV, multi coax

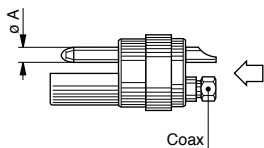
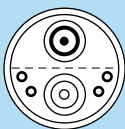
		Reference	Coaxial					Low voltage				
			Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ϕ A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
6E		805¹⁾	1	75	7	A	3-4-5	5	2.0	1.5	2.1	10
		831	1	75	7	A	3-4-5	24 12	0.9 2.0	0.8 1.5	1.2 2.1	2 10
		843	2	75	7	A	3-4-5	12 1	2.0 3.0	1.5 1.5	2.1 2.1	10 14
		847	2	50	5	A1	1-2-3	17	2.0	1.5	2.1	10
		856	2	75	7	A	3-4-5	26	2.0	1.5	2.1	7
		857	2	75	7	A	3-4-5	33	1.3	1.2	1.8	4
		865	3	75	7	A	3-4-5	21 4	1.3 2.0	1.2 1.2	1.8 1.8	4 10

Note: ¹⁾ The type 6E.805 is delivered with female contacts in the plug.

Mixed: coax + LV, multi coax

		Reference	Coaxial					Low voltage				
			Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ϕ A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
6E		866	3	75	7	A	3-4-5	26	1.3	1.2	1.8	4
		880	4	50	5	A1	1-2-3	20	1.3	1.2	1.8	4
		882	4	75	7	A	3-4-5	20	0.9	0.8	1.2	2
		884	4	75	7	A	3-4-5	38	0.9	0.8	1.2	2
		235	5	50	6	A0	1-3-4	–	–	–	–	–
		899	8	50	5	A1	1-2-3	20	1.6	1.5	2.1	5

Mixed: coax + LV + HV

		Reference	Coax					Low voltage (LV)		High voltage (HV)	
			Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ϕ A (mm)	Number of contacts	ϕ A (mm)
4S 4E		934	1	50	5	A1	1-2-3	4	0.9	1	2.0
											

Collet nut for fitting a bend relief (S and E series)

C type collets for S series

	Clamping	Coax cable groupe		
		1	2	3
S	C42Z	C41Z	C42Z	C43Z
	C57Z	C51Z	C52Z	C53Z
	C72Z	C71Z	C72Z	C73Z
	C87Z	C81Z	C82Z	C83Z
	C97Z	C91Z	C92Z	C93Z
	C11Z	C11Z	C12Z	C13Z
	C12Z	C21Z	C22Z	C23Z

C type collets for E series

	Clamping	Coax cable groupe		
		1	2	3
E	C50Z	C51Z	C52Z	C53Z
	C55Z	C56Z	C57Z	C58Z
	C80Z	C81Z	C82Z	C83Z
	C85Z	C86Z	C87Z	C88Z
	C90Z	C91Z	C92Z	C93Z
	C95Z	C96Z	C97Z	C98Z
	C10Z	C01Z	C02Z	C03Z
	C11Z	C11Z	C12Z	C13Z
	C12Z	C21Z	C22Z	C23Z
	C13Z	C31Z	C32Z	C33Z
	C14Z	C41Z	C42Z	C43Z

Note: see unipole-multipole catalogue for others available collets.

Coaxial contacts for S and E series

Type	Impedance (Ω)	ϕ A (mm)	Cond. fixing	Screen fixing	Cable group	Cond. ϕ maxi	Dielectric ϕ maxi	Sheath ϕ		VSWR (f=GHz)	Test voltage (kV rms)	Rated current (A)
								Mini	Maxi			
A1	50	0.7	solder	collet	1	0.55	1.90	2.5	3.0	1.01 +0.127f	0.9	5
					2	0.55	1.90	1.7	2.1			
					3	0.55	1.90	2.2	2.6			
A0	50	0.9	solder	collet	2	0.95	2.95	1.7	2.1	1.06 +0.1f	3.0	6
					3	0.95	2.95	2.7	3.1			
					4	0.95	2.95	3.3	4.1			
A	50	1.6	solder	collet	4	1.35	3.95	3.3	4.1	1.01 +0.146f	1.8	12
					6	1.35	3.95	4.3	5.1			
					3	1.05	3.95	2.2	2.6			
	75	1.3	solder	collet	4	1.05	3.95	3.3	4.1	1.01 +0.19f	2.4	7
					5	1.05	3.95	5.3	6.1			
A3	50	3.0	solder	collet	7	2.60	8.10	10.0	10.6	1.06 +0.5f	3.0	15

Recommended coaxial cables for 00 Series (page 18)

	LEMO cable Part Number	Type	LEMO cable group	Impedance (Ω)	Conductor ϕ (mm)	Dielectric ϕ (mm)	Screen ϕ (mm)	Sheath ϕ (mm)
Standard	CCX.50.RG5.8CU50N	RG 58 C/U	6	50 $\pm$ 2	0.90	2.95	3.60	5.00
	CCX.50.RG1.42BU50M	RG 142 B/U	7	50 $\pm$ 2	0.95	2.95	3.53 / 4.30	5.00
	CCX.50.RG1.74U25N	RG 174 /U	3	50 $\pm$ 2	0.48	1.50	2.00	2.55
	CCX.50.RG1.74AU27N	RG 174 A/U	3	50 $\pm$ 2	0.48	1.50	2.00	2.80
	CCX.50.RG1.78BU18M	RG 178 B/U	1	50 $\pm$ 2	0.30	0.84	1.30	1.80
	CCX.75.RG1.79BU26M	RG 179 B/U	2	75 $\pm$ 3	0.30	1.50	2.00	2.50
	CCX.75.RG1.87AU26B	RG 187 A/U	2	75 $\pm$ 3	0.30	1.50	2.00	2.60
	CCX.50.RG1.88AU24B	RG 188 A/U	4	50 $\pm$ 2	0.54	1.50	2.00	2.60
	CCX.95.RG1.95AU37B	RG 195 A/U	5	95 $\pm$ 5	0.30	2.52	3.10	3.70
	CCX.50.RG1.96AU20B	RG 196 A/U	1	50 $\pm$ 2	0.30	0.84	1.30	1.95
	CCX.50.RG3.16U26M	RG 316 /U	4	50 $\pm$ 2	0.54	1.50	2.10	2.60
Non standard		Huber+Suhner, G02232D-60	8	50 $\pm$ 2	0.50	1.50	1.95 / 2.40	3.10
		Huber+Suhner, K01152-07	9	50 $\pm$ 5	0.19	0.52	0.90	1.25
		Storm, 421-099	8	50 $\pm$ 2	0.50	1.52	2.00 / 2.50	3.05

Note: for more details on cable properties, see NIM-CAMAC catalogue.

Recommended triaxial cables for 00 Series (page 13)

Standard	LEMO cable Part Number	Type	Impedance (Ω)	Conductor ø (mm)	Dielectric ø (mm)	Screen 1 ø (mm)	Screen 2 ø (mm)	Sheath ø (mm)
		RGT 316	50 ± 2	0.51	1.50	2.05	3.15	3.60
		RGT 403	50 ± 2	0.30	0.84	1.30	2.35	2.95
	017 410 LEDE	RGT 174	50 ± 2	0.48	1.55	1.90	2.90	3.90
	017 820 LEDE	RGT 178	50 ± 2	0.30	0.90	1.37	2.30	2.80
		Huber + Suhner G 02332	50 ± 2	0.49	1.50	2.00	3.05	4.25
		SMT 50	50 ± 2	0.16	0.52	0.85	1.35	1.60

Recommended coaxial cables for S and E Series (page 18)

LEMO cable Part Number	Type	LEMO cable group	Impedance (Ω)	Conductor ø (mm)	Dielectric ø (mm)	Screen ø (mm)	Sheath ø (mm)
311 100 LEDE	RG 11 A/U	8	75 ± 2	1.17	7.25	8.15	10.10
	RG 12 A/U	0	75 ± 3	1.20	7.25	8.20	11.80
CCX.50.RG5.8CU50N	RG 58 C/U	6	50 ± 2	0.90	2.95	3.60	5.00
CCX.50.RG5.9BU62N	RG 59 B/U	7	75 ± 3	0.60	3.70	4.50	6.20
	RG 115 A/U	8	50 ± 2	2.25	6.50	8.00	10.50
	RG 122 /U	4	50 ± 2	0.80	2.50	3.20	4.10
CCX.50.RG1.42BU50M	RG 142 B/U	6	50 ± 2	0.95	2.95	4.30	5.00
	RG 144 /U	8	75 ± 3	1.35	7.25	8.00	10.40
	RG 165 /U	8	50 ± 2	2.46	7.25	8.00	10.40
CCX.50.RG1.74AU27N	RG 174 A/U	3	50 ± 2	0.48	1.50	2.00	2.80
CCX.50.RG1.78BU18M	RG 178 B/U	1	50 ± 2	0.30	0.84	1.30	1.80
CCX.75.RG1.79BU26M	RG 179 B/U	5	75 ± 3	0.30	1.50	2.00	2.50
CCX.75.RG1.87AU26M	RG 187 A/U	5	75 ± 3	0.30	1.50	2.00	2.60
CCX.50.RG1.88AU26B	RG 188 A/U	2	50 ± 2	0.54	1.50	2.00	2.60
CCX.50.RG1.96AU20B	RG 196 A/U	1	50 ± 2	0.30	0.84	1.30	1.95
213 000 LEDE	RG 213 /U	8	50 ± 2	2.25	7.25	8.20	10.30
	RG 214 /U	9	50 ± 2	2.25	7.25	8.80	10.80
	RG 216 /U	9	75 ± 3	1.20	7.25	8.80	10.80
	RG 223 /U	7	50 ± 2	0.89	2.95	4.30	5.40
	RG 225 /U	9	50 ± 2	2.40	7.25	8.80	10.90
	RG 302 /U	6	75 ± 3	0.64	3.70	4.40	5.10
CCX.50.RG3.16U26M	RG 316 B/U	2	50 ± 2	0.60	1.60	2.10	2.80
	RG 400 /U	6	50 ± 2	1.00	2.98	4.20	5.00
	HF-2114 Dätwyler	3	50 ± 2	0.48	1.30	1.90	2.70
	HF-5408/1 Dätwyler	7	75 ± 3	0.60	3.80		5.60
	2YCCY 0.4/2.5 Siemens	6	75 ± 2	0.40	2.50	3.70	4.50

Recommended coaxial cables for mixed coax, multi coax for S and E Series (pages 20 to 26)

LEMO cable Part Number	Type	LEMO cable group	Impedance (Ω)	Conductor ø (mm)	Dielectric ø (mm)	Screen ø (mm)	Sheath ø (mm)
CCX.50.RG5.8CU50N	RG 58 C/U	6	50 ± 2	0.90	2.95	3.60	5.00
CCX.50.RG5.9BU62N	RG 59 B/U	5	75 ± 3	0.60	3.70	4.50	6.20
	RG 122 /U	4	50 ± 2	0.80	2.50	3.20	4.10
CCX.50.RG1.42BU50M	RG 142 B/U	6	50 ± 2	0.95	2.95	4.30	5.00
CCX.50.RG1.74.AU27N	RG 174 A/U	1	50 ± 2	0.48	1.50	2.00	2.80
CCX.50.RG1.78BU18M	RG 178 B/U	2	50 ± 2	0.30	0.84	1.30	1.80
CCX.75.RG1.79BU26M	RG 179 B/U	3	75 ± 3	0.30	1.50	2.00	2.50
CCX.75.RG1.87AU26M	RG 187 A/U	3	75 ± 3	0.30	1.50	2.00	2.60
CCX.50.RG1.88AU26B	RG 188 A/U	1	50 ± 2	0.54	1.50	2.00	2.60
CCX.50.RG1.96AU20B	RG 196 A/U	2	50 ± 2	0.30	0.84	1.30	1.95
213 000 LEDE	RG 213 /U	7	50 ± 2	2.25	7.25	8.20	10.30
	RG 223 /U	6	50 ± 2	0.89	2.95	4.30	5.40
	RG 302 /U	5	75 ± 3	0.64	3.70	4.40	5.10
CCX.50.RG3.16U26M	RG 316 /U	1	50 ± 2	0.54	1.50	2.10	2.60
	RG 400 /U	5	50 ± 2	1.00	2.98	4.20	5.00

Note: the cable group number corresponding to the chosen cable must be written in the variant position, see pages 15 and 17.

Recommended triaxial cables for S and E Series (page 19)

LEMO cable Part Number	Type	LEMO cable group	Impedance (Ω)	Conductor ø (mm)	Dielectric ø (mm)	Screen 1 ø (mm)	Screen 2 ø (mm)	Sheath ø (mm)
CTR.50.RG1.78BU29M	RGT 178	1	50 ± 2	0.30	0.90	1.37	2.30	2.80
CTR.50.RG1.74AU39N	RGT 174	2	50 ± 2	0.48	1.55	1.90	2.90	3.90
	9222 Belden ¹⁾	3	50 ± 2	0.94	2.90	3.50	5.20	6.10
	HF-2318 Dätwyler	5	50 ± 2	1.60	4.80	–	–	10.20
	8215 Belden	4	75 ± 3	0.72	4.55	–	–	8.43
	8232A Belden	4	75 ± 3	0.80	3.70	–	–	8.00
	HF-2426 Dätwyler	4	75 ± 3	0.60	3.70	–	–	8.00
	RGT 179	6	75 ± 3	0.30	1.60	2.10	3.10	3.60
375 029 LEDE	Triax 8 Nokia	4	75 ± 3	1.00	4.50	5.20	7.20	8.50
	9267 Belden	5	75 ± 3	0.84	3.70	–	–	9.20
466 140 LEDE	Triax 11 Nokia	7	75 ± 3	1.40	6.50	7.20	9.40	10.90
	8233A Belden	7	75 ± 3	1.60	7.30	–	–	12.10

Note: ¹⁾ when used with 1S.650 / 1E.650, please request large contact bucket («W» type).

Product safety notice

PLEASE READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY AND CONSULT ALL RELEVANT 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

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.**

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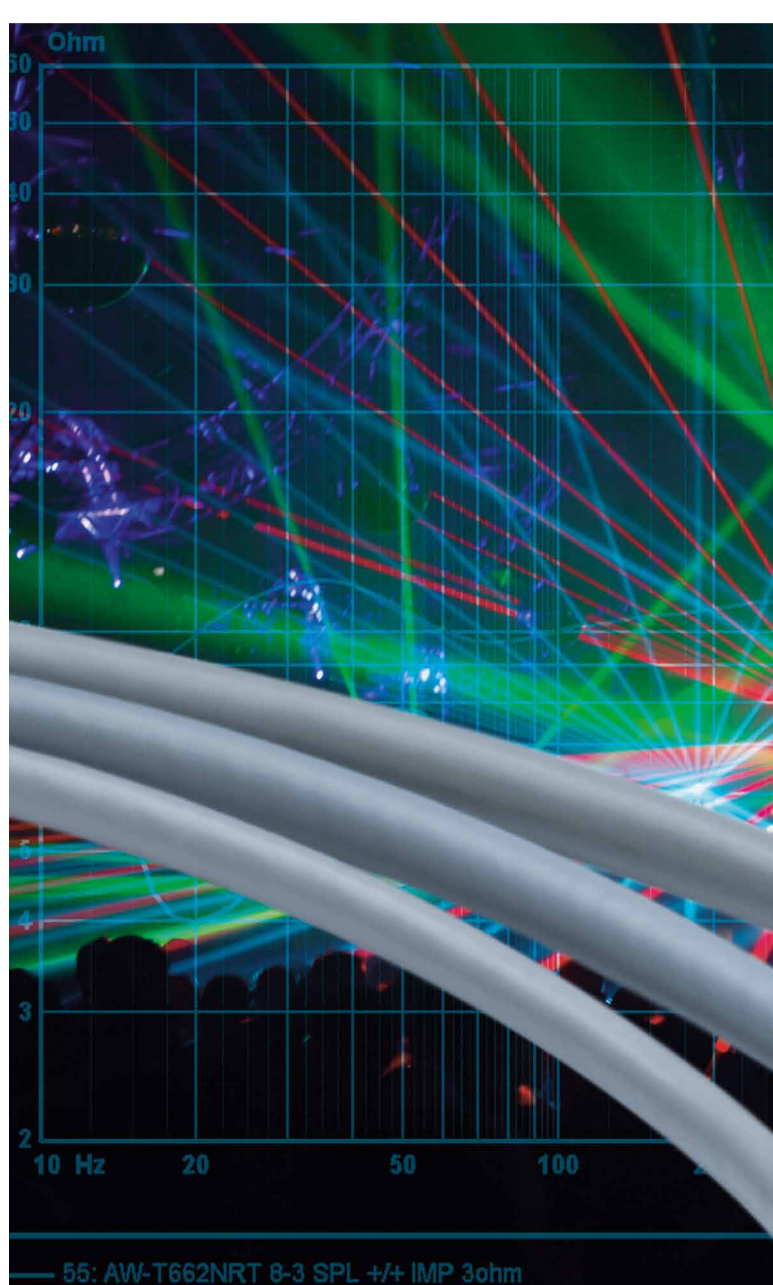
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