

SHORT FORM CATALOGUE



Precision modular connectors to suit your application

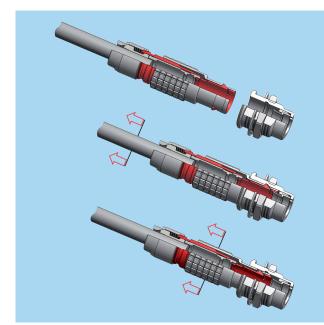
Since its creation in Switzerland in 1946 the LEMO Group has been recognized as a global leader of circular Push-Pull connectors and connector solutions. Today LEMO and its affiliated companies, REDEL and COELVER, are active in more than 80 countries with the help of over 40 subsidiaries and distributors.

Over 75000 connectors

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

LEMO's Push-Pull Self-Latching Connection System

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



The LEMO self-latching system allows the connector to be mated by simply pushing the plug axially into the socket.

Once firmly latched, connection cannot be broken by pulling on the cable or any other component part other than the outer release sleeve.

When required, the connector is disengaged by a single axial pull on the outer release sleeve. This first disengages the latches and then withdraws the plug from the socket.

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

RoHS

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

Product safety notice & disclaimers

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

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

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



Introduction

This catalogue gives the complete description of LEMO connectors with coaxial, triaxial and hybrid contacts. Hybrid 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

				5	Surfac	e tre	atmer	nt (µm	1)			
Component	Material (Standard)	_	hrom			kel		gold		black		Notes
		Cu	Ni	Cr	Cu	Ni	Cu	Ni	Au	Ni	Cr	
	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)				wit	hout	treatr	nent				
	Aluminium alloy (AA 6262A or AA 6023)					ano	dized					
Outer shell, collet nut, conical nut or notched	POM (Delrin® or Ertacetal®), Polyoxymethylene, black					-	-					1)
nut and oversized collet	PEEK, Polyether ethercetone, beige					-	-					2)
	PSU (Udel®), Polysulfone, grey or white					-	-					3)
	PPSU (Radel [®]), Polyphenylsulfone, cream		-									
	PPS (Ryton®), Polyphenilene sulfide, brown					-	-					4)
	Bronze (UNS C 54400) or special brass		_	_	0.5	3	0.5	3	1.0	_	_	5)
Earthing crown	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	_	_	
Lateri sieeve	Stainless steel (AISI 416 or 316L)				wit	hout	treatr	nent				7)
Locking washer	Bronze (UNS C 52100)	-	_	_	0.5	3	0.5	3	0.5	_	_	
	Brass (UNS C 38500)	-	_	_	0.5	3	0.5	3	0.5	-	_	
Hexagonal or round nut	Stainless steel (AISI 303, 304 or 316L)	without treatment									8)	
	Aluminium alloy (AA 6262A or AA 6023)				an	odize	ed nat	ural				8)
Other marketille and a second	Brass (UNS C 38500)		- - - 0.5 3 0.5 3 0.5 - -							_		
Other metallic components	Stainless steel (AISI 303, 304 or 316L)				wit	hout	treatr	nent				
O-ring and gaskets	Silicone MQ/MVQ or FPM/FKM (Viton®)					-	-					9)
Sealing resin	Epoxy (Araldite® or Stycast®)					-	-					

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
- used in 00 series free and fixed sockets
 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.

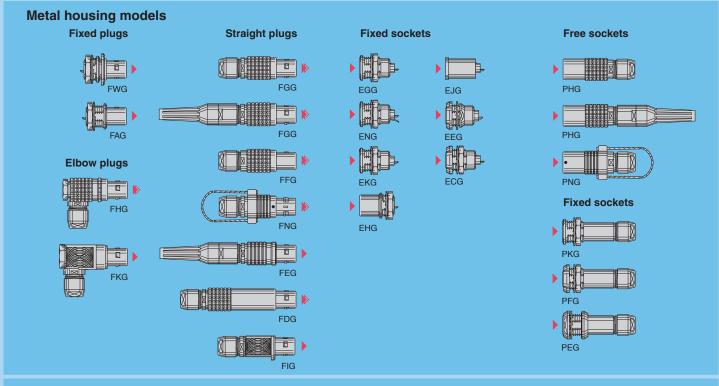


B Series

B series connectors provide the following main features:

- security of the Push-Pull self-latching system
- coaxial, triaxial, multi and hybrid 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



Plastic housing models Straight plugs **Fixed sockets** FGG FGG M MM ╦ FGY FGY ENY

Model Description

ECG Fixed socket with two nuts, key (G) or keys

(A...L and R)

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)
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,

Fixed socket with earthing tag, nut fixing, key (G) or keys (A...L)
Fixed socket with earthing tag, nut fixing, key (G or J), PEEK outer shell
Fixed socket with earthing tag, nut fixing, keys (Y), PSU or PPSU outer shell
Fixed plug, non-latching, nut fixing, key (G) or keys (A...L and R)
Straight plug, long version, key (G) or keys (A...L), cable collet **FAG**

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)

FGG

Straight plug, key (G) or keys (A...L), cable collet
Straight plug, key (G) or keys (A...L and R), cable collet
Straight plug, key (G) or keys (A...L), cable collet
Straight plug, key (G) or keys (A...L), cable collet and nut for fitting a bend relief
Straight plug, key (G or J), cable collet,
PEEK outer shell
Straight plug, key (G or J), cable collet

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

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

and PSU or PPSU outer shell and nut for fitting a bend relief Elbow (90°) plug, key (G) or keys (A...L and R), cable collet 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),

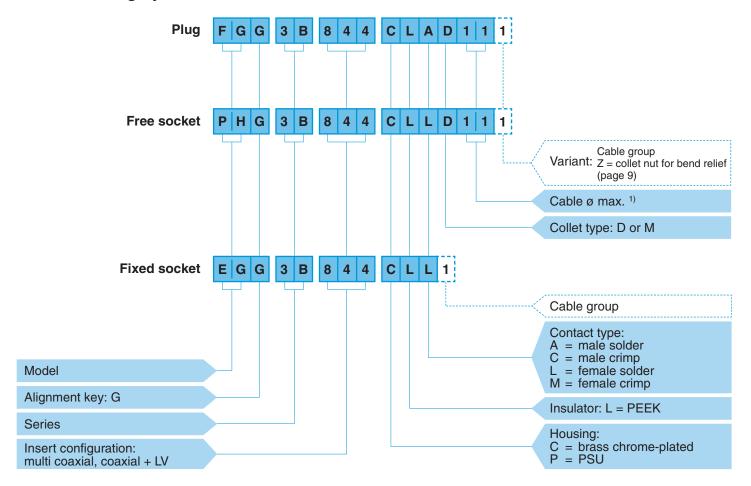
cable collet

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



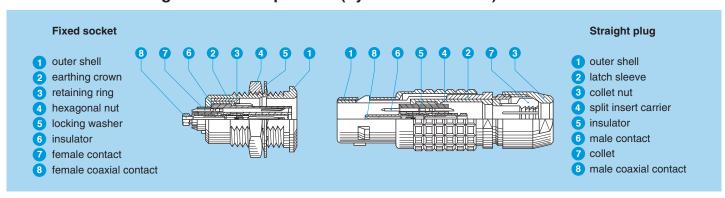
FGG.3B.844.CLAD111 = straight plug with key (G) and cable collet, 3B series, hybrid coaxial & low voltage type (1 coaxial and 4 low voltage contacts), outer shell in chrome-plated brass, PEEK insulator, male solder contacts, D type collet for up to 11 mm diameter cable. Cable group 1.

PHG.3B.844.CLLD111 = free socket with key (G) and cable collet, 3B series, hybrid coaxial & low voltage type (1 coaxial 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, hybrid coaxial & low voltage type (1 coaxial 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 (hybrid coaxial + LV)





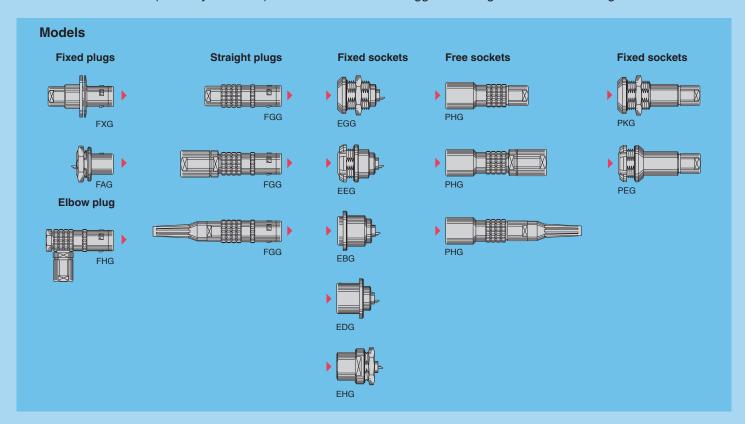
K Series

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 (except FX• model) 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, multi and hybrid contact configurations
- solder or crimp contacts
- multiple key options to avoid cross mating of similar connectors («G» key standard)

- watertight connection (IP68/IP66)
- up to 10 coaxial contacts
- 360° screening for full EMC shielding
- high packing density for space savings
- rugged housing for extreme working conditions.



Model Description

EBG Fixed socket with square flange, key (G) or keys (A to F, L and R) and screw fixing

Fixed socket with square flange, key (G) or keys (A to F, L and R), protruding shell

or keys (A to F, L and R), protruding sh 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

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

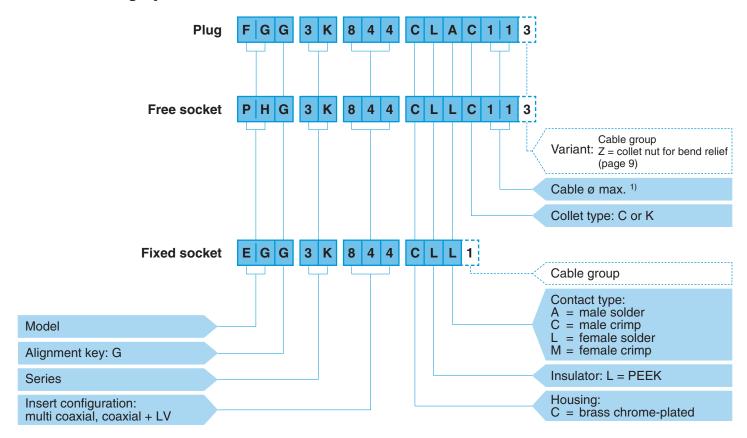
Free socket, key (G) or keys (A to F, L and R), cable collet and oversize cable collet Free socket, key (G) or keys (A to F, L and

R), cable collet and nut for fitting a bend

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



Part Numbering System



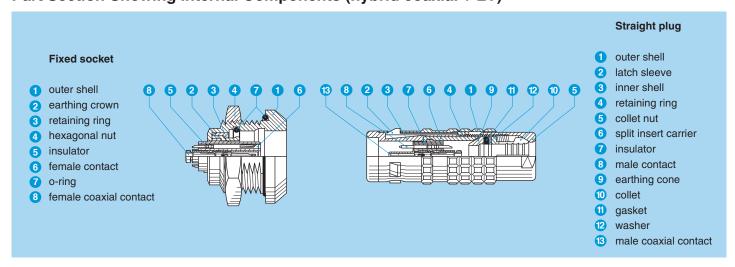
FGG.3K.844.CLAC113 = straight plug with key (G) and cable collet, 3K series, hybrid coaxial & low voltage type (1 coaxial and 4 low voltage contacts), outer shell in chrome-plated brass, PEEK insulator, male solder contacts, C type collet for 10.5 mm diameter cable. Cable group 3.

PHG.3K.844.CLLC113 = free socket with key (G) and cable collet, 3K series, hybrid coaxial & low voltage type (1 coaxial 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, hybrid coaxial & low voltage type (1 coaxial 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 (hybrid coaxial + LV)





Insert configuration (B and K series)

Multi coaxial, hybrid coaxial + LV

				Coa	ıxial				Low	voltage	(LV)		
	Coax		ıtacts)	e 10)		itacts		Cont	tacts pe			(A)
	□ V O V O V O V O V O V O V O V O V O V	Reference	Number of contacts	Impedance (Ω)	Type (see page 10)	Cable group	Number of contacts	ø A (mm)	Solder	Crimp	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
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	С	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	3	50 50	G E	2	-	-	-	-	-	_	_
3B		803	1	50	A0	6	3	0.9	-	_	1.10	1.55	8
3B 3K		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	0.7			0.80	1.10	5
		813	1	50	A1	1-2-3	13	0.7	•	•	0.90	1.30	7
		822	1	50	С	1-2-3	22	0.7			0.70	1.00	5
		844	2	50	С	1-2-3	4	0.9	•	•	0.90	1.30	10
		846	2	50	С	1-2-3	6	0.9	•	•	0.90	1.30	10
		850	2	50	С	1-2-3	10	0.7	•	•	0.75	1.05	8
		856	2	50	С	1-2-3	16	0.7	•	•	0.70	1.00	7
		242	2	50	С	1-2-3	-	-	-	-	-	-	-
		243	3	50	C ¹⁾	1-2-3	-	-	-	-	-	_	-
		862	3	50	C ¹⁾	1-2-3	2	0.9	•	•	1.10	1.60	9

 $\textbf{Note:} \ ^{1)} \ \text{for the 3B.243/3K.243} \ \text{and 3B.862/3K.862} \ \text{the part number of the extractor is DCC.91.CP1.LAGY}.$

First choice alternativeSpecial order alternative



7

Multi coaxial, hybrid coaxial + LV

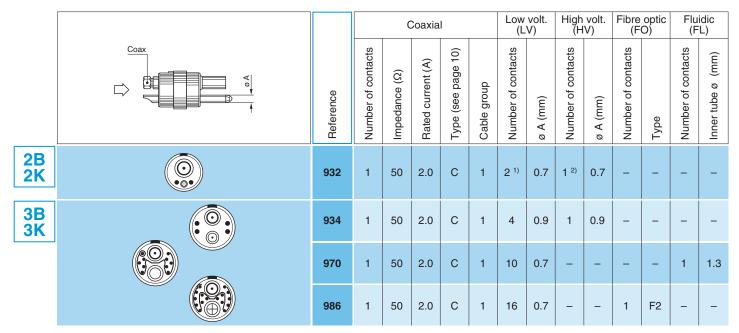
					Coa	ıxial				Low	voltage	(LV)		
	Coax	■ <		ontacts	(O)	age 10)		ontacts		Cont typ	acts oe			nt (A)
		V o o o o o o o o o o o o o o o o o o o	Reference	Number of contacts	Impedance (Ω)	Type (see page 10)	Cable group	Number of contacts	ø A (mm)	Solder	Crimp	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
4B 4K			802 822	1	50 75	A A	6-8 3-4-5	2	0.9	•	•	1.00	1.40	12
			804 824	1	50 75	A A	6-8 3-4-5	4	0.9	•	•	1.00	1.40	10
			806 826	1	50 75	A A	6-8 3-4-5	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	С	1-2-3	12	0.9	•	•	0.90	1.30	8
			856	2	50	С	1-2-3	16	0.9	•	•	0.90	1.30	8
			858	2	50	С	1-2-3	18	0.7	•	•	0.80	1.10	7
			866	3	50	С	1-2-3	6	0.7	•	•	0.80	1.10	7
			885	3	50	С	1-2-3	12	0.7	•	•	0.80	1.10	8
			244	4	50	С	1-2-3	1	-	_	-	_	_	_
			879	4	50	С	1-2-3	9	0.7	•	•	0.90	1.30	8
		000	890	6	50	Е	2	18	0.7	•	•	0.90	1.30	5
			894	6	50	E	2	22	0.7	•	0	0.90	1.30	4
5B 5K			9971)	1	75	A4	N/A	32	1.3	•	•	1.20	1.70	8
			840	1	50	А	6-8	40	0.9	•	•	1.30	1.80	7
	First choice alternative	Special order alternative	е		No	ote: 1) c	only ava	ilable ir	n 5B se	ries. Sc	lution f	or triaxi	al cable	fixing.



				Coa	axial				Low	voltage	(LV)		
	<u>Coax</u>		acts		10)		acts		Cont	tacts pe			€ F
	→ V O	Reference	Number of contacts	Impedance (Ω)	Type (see page 10)	Cable group	Number of contacts	ø A (mm)	Solder	Crimp	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
5B 5K		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	0	•	1.40	2.00	8
		856 876	2	50 75	B B	6 3-5	16	0.9	•	•	1.40	2.00	7
	0.0	857 877	2	50 75	B B	6 3-5	2 15	2.0 0.9	0	•	1.40 1.40	2.00 2.00	30 7
		864	2	75	В0	1-6	24	1.3	•	•	0.90	1.30	8
		273	3	75	B1	5	-	_	-	ı	-	1	_
		274	4	75	B1	5	_	-	1	1	-	1	_
		892	6	75	D	5-8-9	10	0.9	•	0	0.70	1.00	7
		260	7	75	D	5-8-9	-	-	_	-	-	-	-
		240	10	50	С	1-2-3	-	-	-	-	-	-	_



Hybrid coaxial + LV + HV, hybrid coaxial + LV + Fluidic, hybrid coaxial + LV + Fibre optic



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 gr	oupe
	Clamping	1	2	3
В	D52Z	D51Z	D52Z	D53Z
В	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 gro	oupe
	Clamping	1	2	3
К	C50Z	C51Z	C52Z	C53Z
K	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

								Shea	ath ø		rms)	
Туре	Impedance (Ω)	ø A (mm)	Cond. fixing	Screen fixing	Cable group	Mini Cond. ø maxi Maxi	Dielectric ø maxi	Mini	Maxi	VSWR (f=GHz)	Test voltage (kV rms)	Rated current (A)
F 1) 3)	50	0.5	solder	crimp	2	0.35	1.05	-	2.10	1.05 +1.83f	0.8	2
A 1	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	6 8	1.35 1.35	3.95 3.95	4.2 5.2	5.20 5.70	1.01 +0.146f	1.8	12
A	75	1.3	solder	collet	3 4 5	1.05 1.05 1.05	3.95 3.95 3.95	2.2 3.2 5.7	3.20 4.20 6.20	1.01 +0.19f	2.4	7
A4 ⁴⁾	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
Β"	75	0.6	solder	crimp	3 5	0.80 0.80	2.45 3.75	_	6.25	1.00 +0.22f	2.1	6
В0	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
Α0	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) Coaxial contact design differs, the central pin is reverse gender.

4) Only available in 5B series. Solution for triaxial cable fixing.



Recommended coaxial cables for multi coaxial and hybrid coaxial for B and K Series

LEMO cable Part Number	Туре	LEMO cable group	Impedance (Ω)	Conductor ø (mm)	Dielectric ø (mm)	Screen ø (mm)	Sheath ø (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	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
CCX.50.RG3.16U26M	RG 316 /U	1	50 ± 2	0.50	1.50	2.00	2.50

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

				Reference	
Coaxial contact type	Imp. Ω	Cable group	Crimping tool with die	Spanner for tightening the contact	Extractor
F	50	2	DPE.99.025.45K	DCC.91.019.1AK	DCC.16.25B.LAG
C ¹⁾	50	1-3	DPE.99.103.8K	-	DCC.91.CP1.LAG
C.,	50	2	DPE.99.103.1K	-	DCC.91.CP1.LAG
E	50	2	DPE.99.002.5K	DCC.91.050.2LA	-
	50	6	DPE.99.176.2K	-	DCC.91.BP3.LAG
В	75	3	DPE.99.125.2K	-	DCC.91.BP3.LAG
	75	5	DPE.99.127.0K	-	DCC.91.BP3.LAG
B1	75	5	DPE.99.127.0K	-	E7234.CB.1610
	75	5	DPE.99.006.2K	DCB.91.685.8TN	-
D	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 part number of the extractor is DCC.91.CP1.LAGY.



00.650 Series

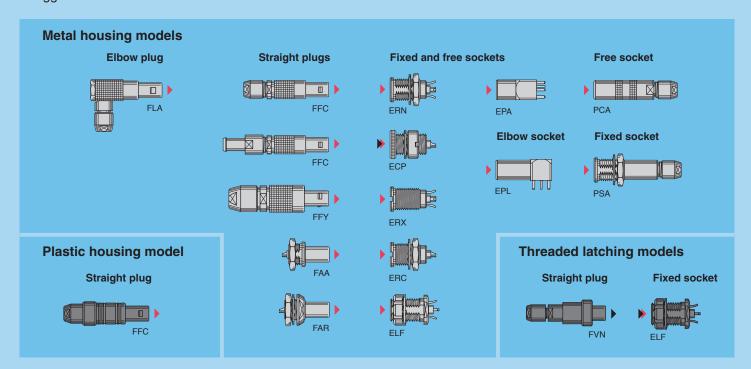
The 00 Series are available in triax configuration, allowing a very compact solution for triaxial cables.

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

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 uselow weight
- reliable performances
- wide choice to suit application



Model Description

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

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

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

EPA EPL

Straight socket for printed circuit board Elbow plug (90°) for printed circuit board Fixed socket, with thread, with slots **ERC**

ERN Fixed socket with nut fixing and tags **ERX** Fixed socket with nut fixing,

slots on flange and tags

Straight plug non latching with nut Straight plug non latching with 2 nuts FAR

(back panel mounting) Straight plug with flats on latch sleeve and cable collet

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)

Straight plug, large shell with cable collet Elbow socket (90°) with cable collet Straight plug with cable collet,

FVN

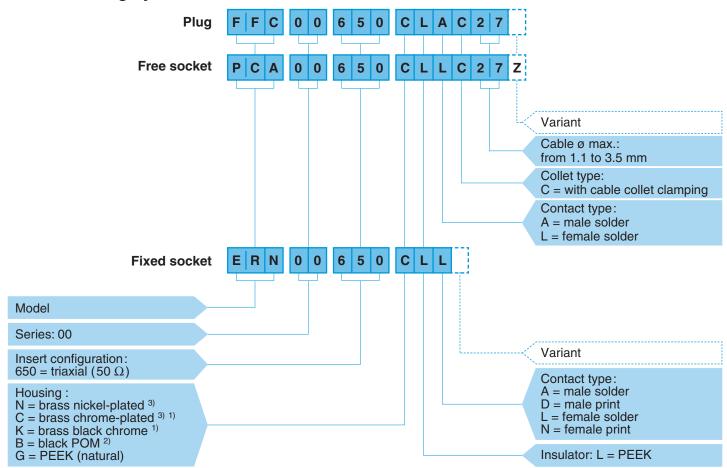
black chrome-plated outer shell Free socket with cable collet PCA Free socket with cable collet PSA Fixed socket, nut fixing, cable collet

Part Section Showing Internal Components

Straight plug **Fixed socket** 7 6 3 4 5 2 1 1 7 6 2 5 4 8 3 outer shell outer shell latch sleeve earthing crown collet nut retaining ring earthing sleeve 4 hexagonal nut 5 rear insulator locking washer insulator 6 insulator male triaxial contact female triaxial contact collet



Part Numbering System



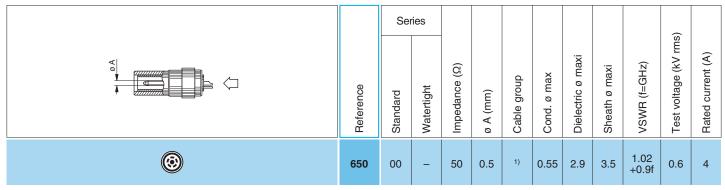
FFC.00.650.CLAC27 = straight plug with flats on latch sleeve and cable collet, 00 Series, triaxial (50 Ω), outer shell in chrome-plated brass, PEEK insulator, C type collet for an up to 2.6 mm diameter cable.

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



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

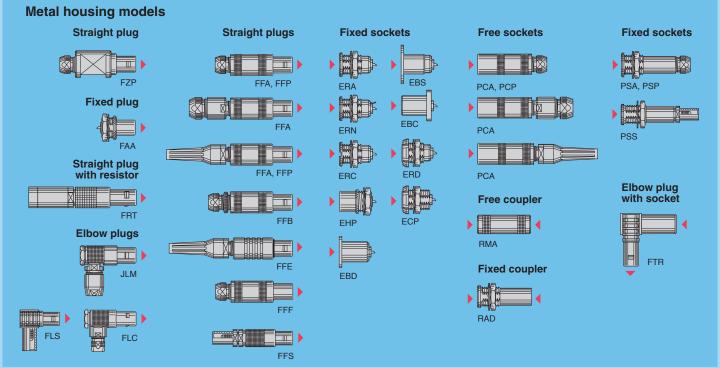


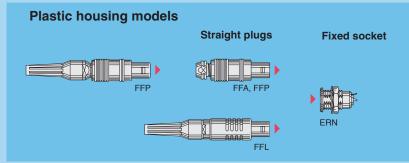
S Series

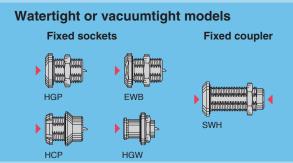
S series connectors have main features as follows:

- 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, multi and hybrid contact configurations
- polarisation by stepped insert (half-moon)
- up to 8 coaxial contacts







Model Description

EBC Fixed socket with square flange, protruding shell and screw fixing EBD Fixed socket, 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, slot in the flange Fixed socket, nut fixing, slot in the flange Fixed socket with two nuts (back panel mounting)
ERN Fixed socket, nut fixing, with earthing tag 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
FFA Straight plug, cable collet
FFA Straight plug with oversize cable collet and nut for fitting a bend relief
FFA Straight plug, cable collet, PEEK or POM outer shell

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

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)

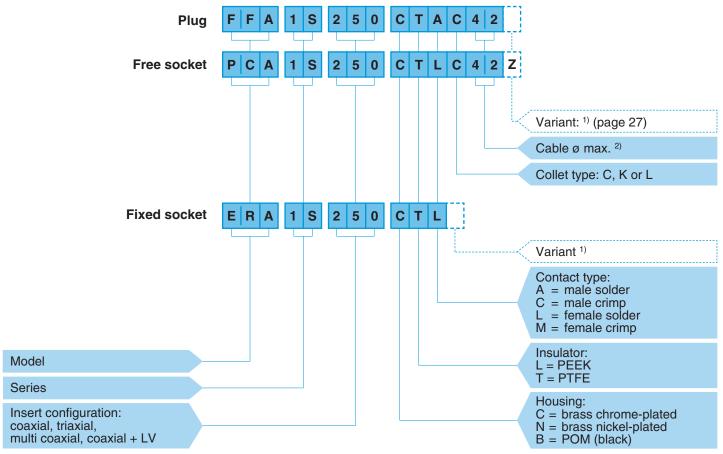
Straight plug, non-latching, cable collet

Straight plug, cable collet and inner anti-rotating device

HCP Fixed socket, nut fixing, watertight or vacuumtight (back panel mounting) Fixed socket, nut fixing, watertight or vacuumtight HGW Fixed socket, nut fixing, with back washer, watertight or vacuumtight Elbow (90°) plug, cable collet Free socket, cable collet **PCA** Free socket with oversize cable collet Free socket, cable collet and nut for fitting a bend relief PCP Free socket, cable collet and inner anti-rotating device
Fixed socket, nut fixing, cable collet
Fixed socket, nut fixing, cable collet
and inner anti-rotating device **PSA PSP** Free socket, nut fixing for cable crimping RAD Fixed coupler, nut fixing RMA Free coupler Fixed coupler, nut fixing, watertight or vacuumtight



Part Numbering System



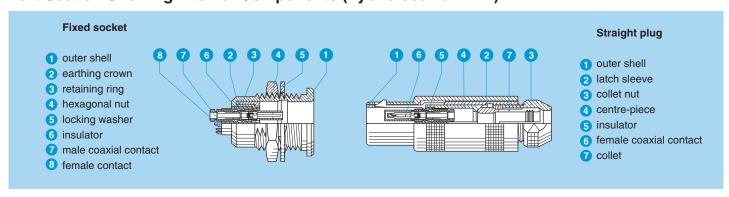
FFA.1S.250.CTAC42 = straight plug with cable collet, 1S series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator, male solder contact, C type collet for a 4.2 mm diameter cable.

PCA.1S.250.CTLC42Z = 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 4.2 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: $^{\rm 1)}$ for hybrid contacts, add cable group to the part number. $^{\rm 2)}$ see unipole-multipole catalogue.

Part Section Showing Internal Components (hybrid coaxial + LV)





E Series

E series connectors have been specifically designed for outdoor applications.

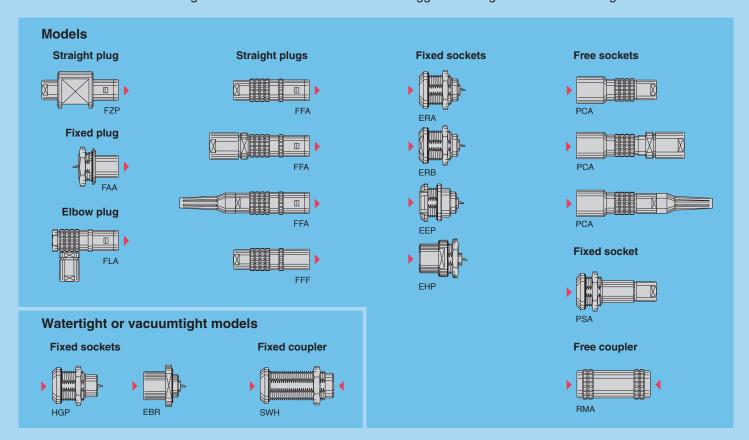
They include an inner sleeve and two seals to prevent penetration of solids or liquids into the housing formed by the plug, free socket or fixed socket. All models of these series are watertight when mated and give a protection index of IP68 as per IEC 60529 standard (in mated condition) when correctly assembled to an appropriate cable (IP 66 otherwise).

– security of the Push-Pull latching system

– coaxial, triaxial, miulti and hybrid contact configurations

- security of the Push-Pull latching system
 watertight connection (IP 68/IP 66)
- solder contacts, print contacts only for coaxial and triaxial configurations

- polarization by stepped insert (half-moon)
- 360° screening for full EMC shielding
- rugged housing for extreme working condition.



Model Description

EBR

Fixed socket with round flange, watertight, protruding shell and screw fixing Fixed socket, nut fixing (back panel mounting)

EHP Fixed socket, nut fixing, protruding shell

Fixed socket, nut fixing
Fixed socket, nut fixing with two flats ERA ERB

in the flange

Fixed plug non-latching, nut fixing Straight plug, cable collet

FFA

FLA FZP

Straight plug with oversize cable collet Straight plug, cable collet and nut for fitting a bend relief Straight plug non-latching, cable collet Elbow (90°) plug, cable collet Straight plug for remote handling, cable collet and inner anti-rotating device Fixed socket, nut fixing, watertight or vacuumtight Free socket, cable collet

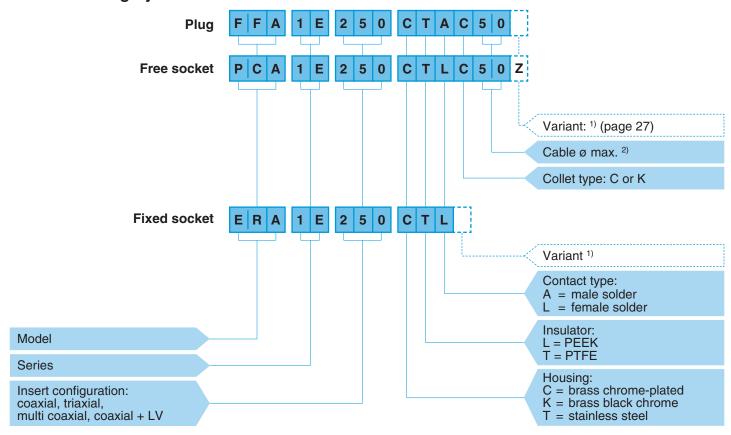
PCA Free socket with oversize cable collet
PCA Free socket, cable collet
and nut for fitting a bend relief
PSA Fixed socket, nut fixing, cable collet

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.

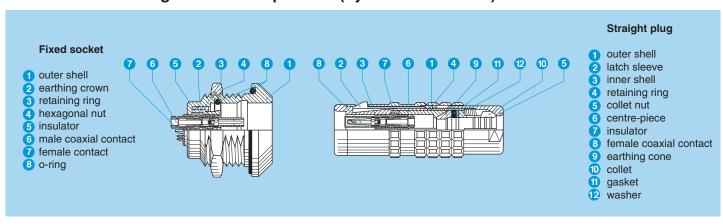
PCA.1E.250.CTLC50Z = free socket with cable collet, 1E series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator, C type collet for an up to 5.0 mm diameter cable and collet nut for fitting a bend relief.

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

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

²⁾ see unipole-multipole catalogue.

Part Section Showing Internal Components (hybrid coaxial + LV)





Insert configuration (S and E series)

Coaxial

			Sei	ies						Shea	ath ø		<u></u>	
		Reference	Standard	Watertight	Impedance (Ω)	ø A (mm)	Cable group	Cond. ø max	Dielectric ø maxi	Maxi S series	Maxi E series	VSWR (f=GHz)	Test voltage (kV rms)	Rated current (A)
00	©	250 ¹⁾	00	-	50	0.7	1 to 9	1.05	3.05	5	.5	1.09 +0.11f	2.1	4
0S 0E		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	28	2E	50	2.0	6-7	1.75	5.95	10.5	10.5	1.01 +0.95f	3.0	15
		275	28	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
58		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

		Se	ries						Shea	ath ø			
	Reference	Standard	Watertight	Impedance (Ω)	ø A (mm)	Cable group	Cond. ø max	Dielectric ø maxi	Maxi S series	Maxi E series	VSWR (f=GHz)	Test voltage (kV rms) (contact/screen)	Rated current (A)
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	18	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	28	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



			Sei	ries		(Coaxia	l			Lo	w volta	ige	
	Coax	Reference	Standard	Watertight	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 28)	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
<u> </u>		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	-	ı	-	-	-
		832	4S	4E	2	50	5	A1	1-2-3	2	1.3	2.1	3.0	13



21

Multi coaxial, hybrid coaxial + LV

			Sei	ries		(Coaxia	I			Lo	w volta	ıge	
	Coax	Reference	Standard	Watertight	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 28)	Cable group	Number of contacts	ø A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
4S 4E		834	48	4E	2	50	5	A1	1-2-3	4	1.3	2.1	3.0	13
		836	48	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
5S 5E		803	-	5E	1	50	12	Α	4-6-8	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	Α	3-5-6	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	l	2	50	6	A0	1-3-4	-	-	-	ı	_
		282 292	5S	5E	2	50 75	12 7	Α	4-6-8 3-5-6	-	-	-	-	_
		832	5S	5E	2	50	6	A0	1-3-4	2	2.0	2.1	3.0	18



			Sei	ries		(Coaxia	I			Lov	w volta	ge	
	Coax	Reference	Standard	Watertight	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 28)	Cable group	Number of contacts	ø 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	Α	3-5-6	16	1.3	0.8	1.2	8
		850	5S	-	2	50	6	AO	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



				(Coaxia	I			Lo	w volta	ge	
	Coax	Reference	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 28)	Cable group	Number of contacts	ø A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
6S		826	1	75	7	Α	3-5-6	26	2.0	1.5	2.1	7
		830	1	75	7	Α	3-5-6	4 30	3.0 1.6	1.5 1.5	2.1 2.1	14 5
		858	2	75	7	Α	3-5-6	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	Α0	1-3-4	26	2.0	1.5	2.1	7
		867	3	75	7	Α	3-5-6	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



				(Coaxia	I			Lov	w volta	ge	
	Coax	Reference	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 28)	Cable group	Number of contacts	ø A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
6S		284 294	4	50 75	12 7	А	4-6-8 3-5-6	-	ı	I	-	_
		882	4	75	7	А	3-5-6	26	0.9	0.8	1.2	2
		887	1 4	50 50	26 5	A3 A1	73}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	Α0	1-3-4	_		ı	-	_
		899	8	50	5	A1	1-2-3	20	1.6	1.5	2.1	5



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Multi coaxial, hybrid coaxial + LV

	oodxidi, iiyofid oodxidi i Ev			(Coaxia	I			Lo	w volta	ıge	
	Coax	Reference	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 28)	Cable group	Number of contacts	ø A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
6E	00000	8051)	1	75	7	Α	3-5-6	5	2.0	1.5	2.1	10
		831	1	75	7	Α	3-5-6	24 12	0.9 2.0	0.8 1.5	1.2 2.1	2 10
		843	2	75	7	А	3-5-6	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	Α	3-5-6	26	2.0	1.5	2.1	7
		857	2	75	7	Α	3-5-6	33	1.3	1.2	1.8	4
		865	3	75	7	Α	3-5-6	21 4	1.3 2.0	1.2 1.2	1.8 1.8	4 10

Note: $^{\mbox{\scriptsize 1)}}$ The type 6E.805 is delivered with female contacts in the plug.

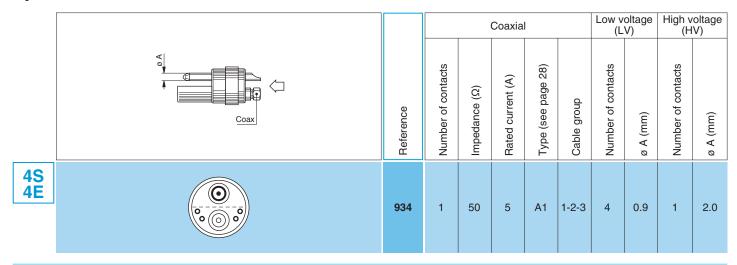


				(Coaxia	l			Lo	w volta	ıge	
	Coax	Reference	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 28)	Cable group	Number of contacts	ø A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
6E		866	3	75	7	Α	3-5-6	26	1.3	1.2	1.8	4
		880	4	50	5	A1	1-2-3	20	1.3	1.2	1.8	4
	○:: ○:: ○:: ○::	882	4	75	7	Α	3-5-6	20	0.9	0.8	1.2	2
		884	4	75	7	А	3-5-6	38	0.9	0.8	1.2	2
		235	5	50	6	A0	1-3-4	-	1	1	1	_
		899	8	50	5	A1	1-2-3	20	1.6	1.5	2.1	5



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Hybrid coaxial + LV + HV



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

C type collets for S series

	Olamania a	Coax	cable gr	oupe
	Clamping	1	2	3
S	C42Z	C41Z	C42Z	C43Z
5	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 gr	oupe
	Clamping	1	2	3
Е	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

 $\textbf{Note:} \ see \ unipole-multipole \ catalogue \ for \ others \ available \ collets.$



Coaxial contacts for S and E series

								Shea	ath ø		(rms)	2
Туре	Impedance (Ω)	ø A (mm)	Cond. fixing	Screen fixing	Cable group	Cond. ø maxi	Dielectric ø maxi	Mini	Maxi	VSWR (f=GHz)	Test voltage (kV rms)	Rated current (A)
A 1	50	0.7	solder	collet	1 2 3	0.55 0.55 0.55	1.90 1.90 1.90	2.5 1.7 2.2	3.0 2.1 2.6	1.01 +0.127f	0.9	5
Α0	50	0.9	solder	collet	1 3 4	0.95 0.95 0.95	2.95 2.95 2.95	1.7 2.7 3.3	2.1 3.1 4.1	1.06 +0.1f	3.0	6
A	50	1.6	solder	collet	4 6 8	1.35 1.35	3.95 3.95	3.2 4.2 5.2	4.2 6.2 6.7	1.01 +0.146f	1.8	12
r	75	1.3	solder	collet	3 5 6	1.05 1.05 1.05	3.95 3.95 3.95	2.2 5.7 4.2	3.2 6.2 5.2	1.01 +0.19f	2.4	7
А3	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	Туре	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.RG1.42BU50M	RG 142 B/U	7	50 ± 2	0.95	2.95	3.53 / 4.30	5.00
	CCX.50.RG1.74U25N	RG 174 /U	3	50 ± 2	0.48	1.50	2.00	2.55
ard	CCX.50.RG1.74AU27N	RG 174 A/U	3	50 ± 2	0.48	1.50	2.00	2.80
Standard	CCX.50.RG1.78BU18M	RG 178 B/U	1	50 ± 2	0.30	0.84	1.30	1.80
Ó	CCX.75.RG1.79BU26M	RG 179 B/U	2	75 ± 3	0.30	1.50	2.00	2.50
	CCX.75.RG1.87AU26B	RG 187 A/U	2	75 ± 3	0.30	1.50	2.00	2.60
	CCX.50.RG1.88AU24B	RG 188 A/U	4	50 ± 2	0.54	1.50	2.00	2.60
	CCX.95.RG1.95AU37B	RG 195 A/U	5	95 ± 5	0.30	2.52	3.10	3.70
	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	4	50 ± 2	0.54	1.50	2.10	2.60
rd		Huber+Suhner, G02232D-60	8	50 ± 2	0.50	1.50	1.95 / 2.40	3.10
Non standard		Huber+Suhner, K01152-07	9	50 ± 5	0.19	0.52	0.90	1.25
sta		Storm, 421-099	8	50 ± 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)

	LEMO cable Part Number	Туре	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
Standard		RGT 403	50 ± 2	0.30	0.84	1.30	2.35	2.95
Star	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		LEMO		Caradinatan	Dialactria	0	Chaoth
Part Number	Туре	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 multi coaxial, hybrid coaxial for S and E Series (p. 20 to 27)

LEMO cable Part Number	Туре	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	8	50 ± 2	0.89	2.95	4.30	5.40
	RG 302 /U	6	75 ± 3	0.64	3.70	4.40	5.10
CCX.50.RG3.16U26M	RG 316 /U	1	50 ± 2	0.50	1.50	2.00	2.50
	RG 400 /U	6	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	Туре	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).







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Product safety notice

PLEASE READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY AND CONSULT ALL RELEVENT NATIONAL AND INTERNATIONAL SAFETY REGULATIONS FOR YOUR APPLICATION.
IMPROPER HANDLING, CABLE ASSEMBLY, OR WRONG USE OF CONNECTORS CAN RESULT IN HAZARDOUS SITUATIONS.

1. SHOCK AND FIRE HAZARD

Incorrect wiring, the use of damaged components, presence of foreign objects (such as metal debris), and / or residue (such as cleaning fluids), can result in short circuits, overheating, and / or risk of electric shock.

Mated components should never be disconnected while live as this may result in an exposed electric arc and local overheating, resulting in possible damage to components.

2. HANDLING

Connectors and their components should be visually inspected for damage prior to installation and assembly. Suspect components should be rejected or returned to the factory for verification.

Connector assembly and installation should only be carried out by properly trained personnel. Proper tools must be used

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 catalogue however these may be influenced by PC board design and / or wiring harnesses.

The test voltage indicated in the catalogue 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.

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