









#### LEMO coaxial 00 and 01 Series (50 $\Omega$ )

Fundamental research in particle physics as practised within CERN and other nuclear research establishments requires more and more complex equipment of high performance in order to achieve the objectives. The needs of such research contribute to the development of leading products for the whole of industry. For many years LEMO has participated in this evolution. This has resulted in a range of miniature coaxial connectors (50  $\Omega$ ) with a push-pull self-latching system, the LEMO 00.250 series. These connectors now form the basis of the NIM-CAMAC CD/N 549 standard.

The plugs and sockets of the 01 series are amongst the smallest available 50  $\Omega$  coaxial connectors with a self-latching intermating capability. In spite of their small size and light weight, their technical characteristics remain excellent. Available in a wide range of housing configurations, they are especially useful when connecting onto printed circuit boards.

The LEMO 00 series and 01 are now used in many areas such as: telecommunications, sensors, medical equipment, space research, etc...

The program covered in this catalog now includes more than 50 models suitable for many cable types.

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#### Precision modular connectors to suit your application

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

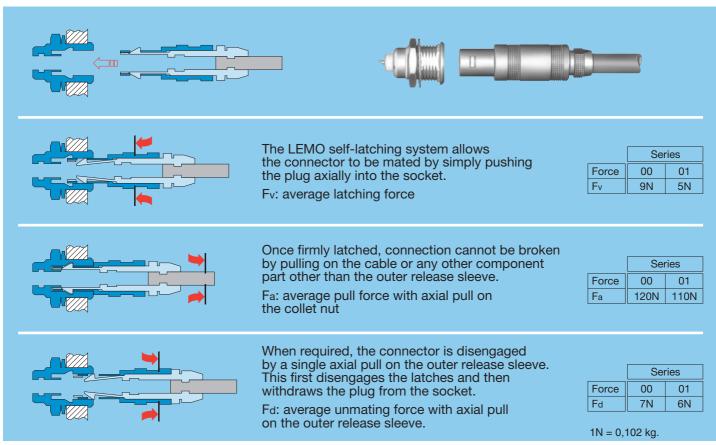
#### Over 50'000 connectors

The modular design of the LEMO range provides over 50'000 connectors from miniature ø 3 mm to ø 50 mm, capable of handling cable diameters up to 30 mm and for up to 106 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.



Force measured according to the standard IEC 60512- test

## UL Recognition **7**

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

### **CE** marking **C**€

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**

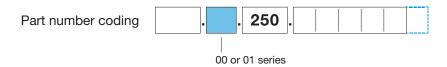
LEMO connector specifications exceed the requirements of the RoHS directives (2011/65/EU) of the European Parliament and the latest amendments. This directive specifies the restrictions of the use of hazardous substances in electrical and electronic equipment marketed in Europe.



# 2 steps to select the right connector

#### Step 1: Select connector series

Select the appropriate LEMO connector series according to the standard, the cable, according to the application or the mated connector already on your equipment.



#### The NIM-CAMAC 00.250 series

The 00 series is coaxial (50  $\Omega$ ). This connectors family was conceived for all applications where a high density of connectors is necessary, especially for patch panels. Because of LEMO's special self-latching system, it is possible to connect them with a simple axial push-pull thereby reducing the space needed to mount sockets to an absolute minimum, up to 50 sockets per square decimetre. LEMO 00 connectors served as the norm for NIM-CAMAC CD/N549 standard, used in nuclear physics as well as many other applications.

#### The miniature 01.250 series

The 01 series is coaxial (50  $\Omega$ ). The plugs and sockets are amongst the smallest available 50  $\Omega$  coax connectors with a self-latching intermating capability. In spite of their small size and light weight, their technical characteristics remain excellent. Available in a wide range of housing configurations, they are especially useful when connecting onto printed circuit boards.

A

Series	00	00	01
Standard	NIM-CAMAC	_	_
Environment	indoor	indoor	indoor
Ingress Protection 1)	IP50	IP50	IP50
Ingress Protection <sup>2)</sup>	IP64	IP50	IP64
Temperature range	FF 1- 00000	551 00000	- 55 to 230°C
Tomporataro rango	- 55 to 260°C	- 55 to 260°C	00 10 200 0
Keying	- 55 to 260°C	- 55 to 260°C Yes	-
	- 55 to 260°C		-
Keying	- 55 to 260°C  - Solder, crimp or print	Yes	Solder or print
Keying Latching	_	Yes Push-Pull self-latching	_

lote: 1) IP50 = Protection from the amount of dust that would interfer with the operation of the equipment

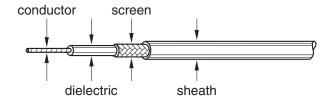
2) Ingress protection between LEMO socket and your device (IP64 = protection from splashed water and dust tight)



## Step 2: Complete the part number

Complete the part numbering by choosing the model depending on your cable and the application.

## Verify the fitting to your cable and cable wire



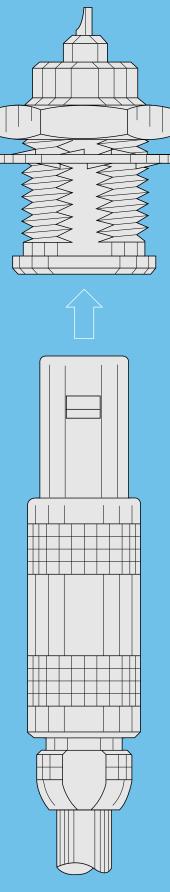
### **Recommended coaxial cables**

#### Electrical and general properties

	MIL-C-17	IEC 60096-2	CCTU 10-01A	LEMO Part-No	LEMO Cable group	Impe- dance	Capaci- tance	Atte- nuation	Operating voltage		erature C	Sei	ries
		00000 2	10 017 (	T dit 110	group	Ohm	pF/m	db/100 m at 100 MHz	U max. KV eff.	from	to	00	01
	RG 58 C/U	50.3.1	KX 15	CCX.50.RG5.8CU50N	6	50 ± 2	101	23	1.90	-25	+70	•	
	RG 142 B/U			CCX.50.RG1.42BU50M	7	50 ± 2	95	12.8	1.50	-70	+200	•	
g	RG 174 /U	50.2.1	KX 38	CCX.50.RG1.74U25N	3	50 ± 2	101	35	2.50	-40	+75	•	•
Standard	RG 174 A/U	50.2.1	KX 3A	CCX.50.RG1.74AU27N	8	50 ± 2	101	31.5	1.50	-25	+70	•	•
tan	RG 178 B/U	50.1.1	KX 21A	CCX.50.RG1.78BU18M	1	$50 \pm 2$	96	48	0.70	-90	+205	•	•
0)	RG 179 B/U	75.2.1		CCX.75.RG1.79BU26M	2	$75 \pm 3$	64	33	1.20	-90	+205	•	•
	RG 187 A/U	75.2.2		CCX.75.RG1.87AU26B	2	$75 \pm 3$	64	33	1.20	-50	+205	•	•
	RG 188 A/U	50.2.3		CCX.50.RG1.88AU24B	4	$50 \pm 2$	96	33	1.20	-50	+205	•	•
	RG 195 A/U			CCX.95.RG1.95AU37B	5	$95 \pm 5$	49	17	1.50	-90	+205	•	
	RG 196 A/U	50.1.2		CCX.50.RG1.96AU20B	1	$50 \pm 2$	96	48	0.70	-50	+205	•	•
	RG 316 /U	50.2.2	KX 22A	CCX.50.RG3.16BU26M	4	$50 \pm 2$	96	33	1.20	-90	+205	•	•
p	Huber+Suhne	er G022	232D-60		8	50 ± 2	101	24	1.50	-40	+105	•	
Non standard	Huber+Suhne	er K011	152-07		9	50 ± 5	96	72	0.45	-45	+165	•	
sta	Storm	421-	099		8	50 ± 2	96	72	2.50	-40	+75	•	

#### Mechanical properties

	Type		Conductor		Diele	ectric	Sci	reen		Sheath		Weight
		Mat.	Stranding	ø mm	Mat.	ø mm	Mat.	ø mm	Mat.	Colour	ø mm	kg/100m.
	RG 58 C/U	CuSn	19 x 0.18	0.90	PE	2.92	CuSn	3.6	PVC	black	4.95	3.80
	RG 142 B/U	CuStAg	solid	0.95	PTFE	2.95	CuAg CuAg	1 <sup>st</sup> : 3.53 2 <sup>nd</sup> : 4.20	FEP		4.95	6.60
2	RG 174 U	CuSt	7 x 0.16	0.48	PE	1.50	CuSn	2.0	PVC1	black	2.55	
Standard	RG 174 A/U	CuSt	7 x 0.16	0.48	PE	1.50	CuSn	2.0	PVC2	black	2.80	1.10
star	RG 178 B/U	CuStAg	7 x 0.10	0.30	PTFE	0.87	CuAg	1.4	FEP	brown	1.80	0.85
0)	RG 179 B/U	CuStAg	7 x 0.10	0.30	PTFE	1.50	CuAg	2.0	FEP	brown	2.60	1.50
	RG 187 A/U	CuStAg	7 x 0.10	0.30	PTFE	1.50	CuAg	2.0	PFA	white	2.60	1.60
	RG 188 A/U	CuStAg	7 x 0.18	0.54	PTFE	1.50	CuAg	2.0	PFA	white	2.60	1.60
	RG 195 A/U	CuStAg	7 x 0.10	0.30	PTFE	2.52	CuAg	3.1	PFA	white	3.70	2.80
	RG 196 A/U	CuStAg	7 x 0.10	0.30	PTFE	0.87	CuAg	1.37	PFA	white	2.00	1.10
	RG 316 /U	CuStAg	7 x 0.18	0.54	PTFE	1.50	CuAg	2.1	FEP	brown	2.60	1.60
	000000000000000000000000000000000000000		7 0 10	0.50	DE	4.50	CuAg	1st: 1.95	DVO		0.40	0.40
D.	G02232D-60	Cu	7 x 0.16	0.50	PE	1.50	CuSn	2 <sup>nd</sup> : 2.40	PVC	grey	3.10	2.10
Non standard	K01152-07	CuAg	7 x 0.06	0.19	PFA	0.52	CuAg	0.9	PFA	white	1.25	0.90
sta	404 000	CuCt A ~	7 v 0 16	0.50	DTEE	1 50	CuAg	1st: 2.00	CCD		2.05	1.05
	421-099	CuStAg	7 x 0.16	0.50	PTFE	1.52	CuAg	2 <sup>nd</sup> : 2.50	FEP		3.05	1.95



00 SERIES (NIM-CAMAC)



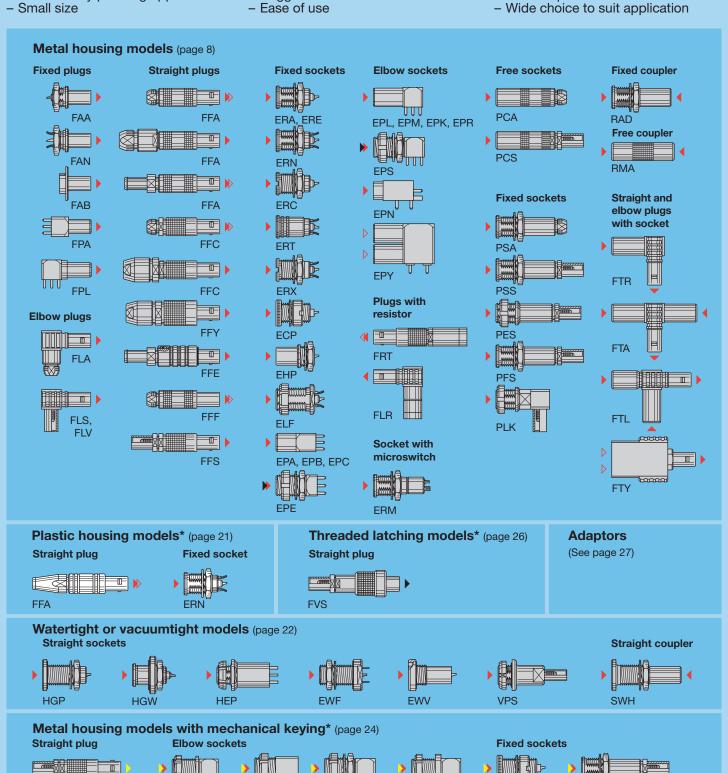
## 00 Series (NIM-CAMAC CD/N 549)

The 00 series is a range of  $50\,\Omega$  coaxial connectors. They are suitable for a wide variety of applications particularly in measurement, control system and nuclear physics, having formed the basis for the NIM-CAMAC CD/N 549 standard. LEMO 00 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



<sup>\*</sup> not included in NIM-CAMAC standard

**XRG** 

**XRG** 

**FSG** 

6 www.lemo.com

**EXG** 

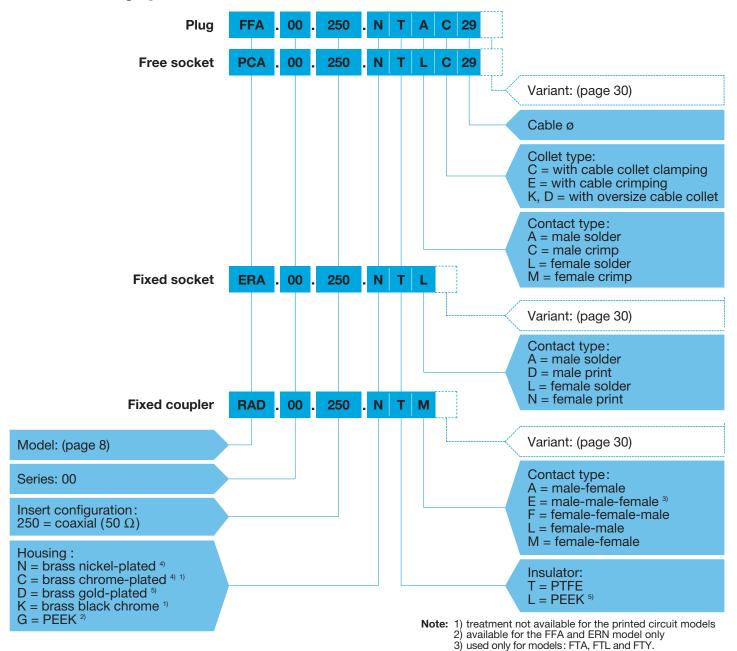
**ESG** 

**PSG** 

XSG



#### **Part Numbering System**

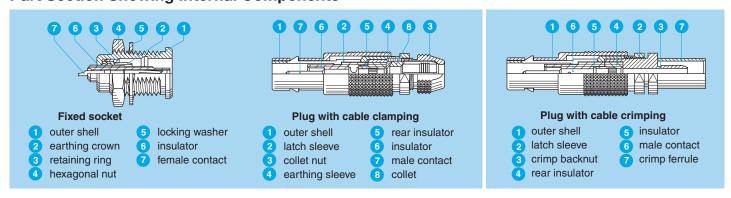


#### **Part Number Example**

4) standard 5) non-standard, on request only

**FFA.00.250.NTAC29** = straight plug with cable collet, series 00, coaxial type (50  $\Omega$ ), outer shell in nickel-plated brass, PTFE insulator, male solder contact, C type collet of 2.9 mm diameter.

#### **Part Section Showing Internal Components**







## Metal housing models

#### **Technical Characteristics**

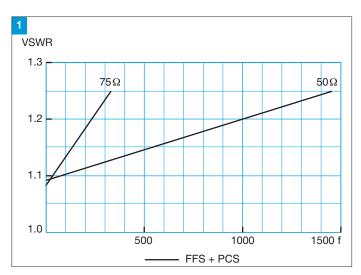
#### Mechanical and climatical

Characteristics	Value	Standard	Test		
Contact retention force	> 18 N	IEC 60512-8	15a		
Cable pull off force 1)	> 100 N	IEC 60512-9	17c		
Connector pull off force	> 90 N	IEC 60512-8	15f		
Endurance	> 5000 cycles	IEC 60512-5	9a		
Operating temperature	- 55°C + 260°C				

Note: 1) depending on cable design

#### **Voltage Standing Wave Ratio**

The VSWR (Voltage Standing Wave Ratio) is the value representing the power reflected in a connection. The VSWR varies with frequency, in most cases, the working frequency range is where VSWR is  $\leq 1.25$ .



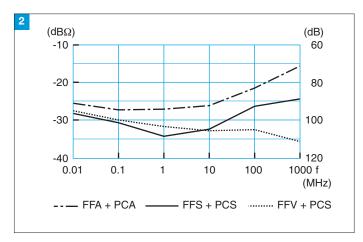
**Note:** value for connectors with PTFE insulator. VSWR measured 50  $\Omega$  with a RG-174 A/U cable and 75  $\Omega$  with a RG-179 B/U cable. Measured according to IEC-60169-1-1.

#### **Electrical**

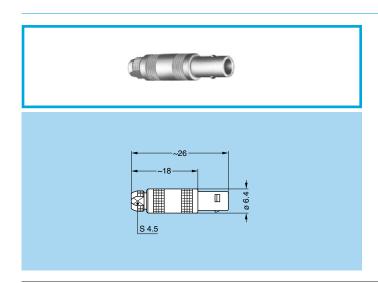
Value	Standard	Test			
50 Ω	-				
0.7 kV rms	_				
2.1 kV rms	IEC 60512-2	4a			
4 A	IEC 60512-3	5a			
$<$ 6 m $\Omega$	IEC 60512-2	2a			
$<$ 3.5 m $\Omega$	IEC 60512-2	2f			
> 10 <sup>12</sup> Ω	IEC 60512-2	3a			
see chart N	l°1 below				
see chart N°2 below					
	$\begin{array}{c} 50~\Omega \\ 0.7~\text{kV rms} \\ 2.1~\text{kV rms} \\ 4~\text{A} \\ < 6~\text{m}\Omega \\ < 3.5~\text{m}\Omega \\ > 10^{12}~\Omega \\ \text{see chart N} \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			

## Shielding efficiency (EMC properties) in dB (transfer impedance in dBohm)

The shielding efficiency is the ratio between the electromagnetic field inside the connector and a power source at the outside of the connector (or vice versa).



Note: measured according to IEC-60169-1-3 standard.

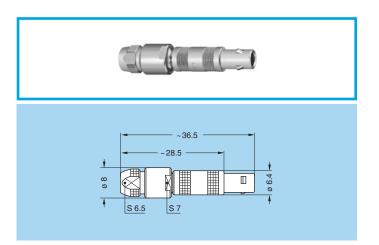


#### FFA Straight plug with cable collet

Part number	Cable	Cond.	Dielectric Ø	She	ath Ø
Fart number	group	Ø max.	max.	min.	max.
FFA.00.250.NTAC15	9	0.55	1.45	1.1	1.4
FFA.00.250.NTAC17	_	0.55	1.45	1.3	1.7
FFA.00.250.NTAC22	1	0.55	1.95	1.8	2.2
FFA.00.250.NTAC27	2-3-4	0.55	1.95	2.3	2.7
FFA.00.250.NTAC31	8	0.55	1.95	2.8	3.1

M1 Cable assembly, solder contact (page 39)

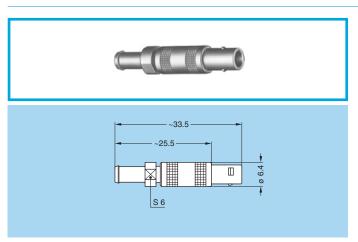




#### FFA Straight plug with oversize cable collet

Part number	Cable group	Cond. Ø max	Dielectric Ø maxi	Sheath Ø mini maxi	
FFA.00.250.NTAK37	8	0.55	1.95	3.0	3.6
FFA.00.250.NTAK42	_	0.55	1.95	3.3	4.1

M1 Cable assembly, solder contact (page 39)

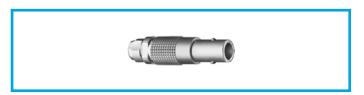


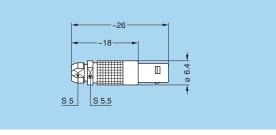
# FFA Straight plug with cable collet and nut for fitting a bend relief

Part number	Cable group	Cond. Ø max	Dielectric Ø maxi	She mini	ath Ø maxi
FFA.00.250.NTAC15Z	9	0.55	1.45	1.1	1.4
FFA.00.250.NTAC17Z	_	0.55	1.45	1.3	1.7
FFA.00.250.NTAC22Z	1	0.55	1.95	1.7	2.1
FFA.00.250.NTAC27Z	2-3-4	0.55	1.95	2.3	2.7
FFA.00.250.NTAC31Z	8	0.55	1.95	2.8	3.1

M1 Cable assembly, solder contact (page 39)

Note: the bend relief must be ordered separately (see page 30).

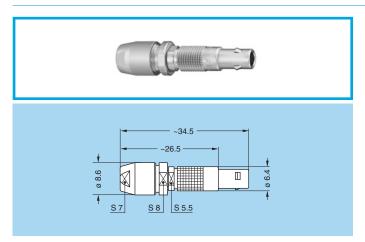




# FFC Straight plug with flats on latch sleeve and cable collet

Part number	Cable	Cond.	Dielectric Ø	She	ath Ø
	group	Ø max	maxi	mini	maxi
FFC.00.250.CTAC22	1	0.60	1.55	1.7	2.1
FFC.00.250.CTAC27	2-3-4	0.60	1.95	2.3	2.7
FFC.00.250.CTAC31	8	0.60	1.95	2.8	3.1

M3 Cable assembly, solder contact (page 39)



# FFC Straight plug with flats on latch sleeve and oversize cable collet

Part number	Cable group	Cond. Ø max	Dielectric Ø maxi	Sheath 2	
FFC.00.250.CTAD42	5	1.05	3.05	3.1	4.0
FFC.00.250.CTAD52	6-7	1.05	3.05	4.1	5.0
FFC.00.250.CTAD56	_	1.05	3.05	5.1	5.5

M3 Cable assembly, solder contact (page 39)