

75Ω – 3GHz/6GHz COAXIAL CONTACT



75Ω/3GHz coaxial contact (up to 6GHz)

LEMO launches a new 3GHz contact that can be used in various insulator types, providing solutions for the broadcast market for an alternative to HD - BNC. For specific cable references 6GHz can be achieved.

This product provides true 75 Ohms performance. In the LEMO B, K, T, M series or W series shell connector, the users has a reliable brass construction interface. The M series is provided with an aluminium shell and ratchet coupling.

The 3B/3K/3T/3W series can accommodate 3 x HD-SDi signals.

The 4B/4K/4W series can accommodate up to 4 x HD-SDi signals.

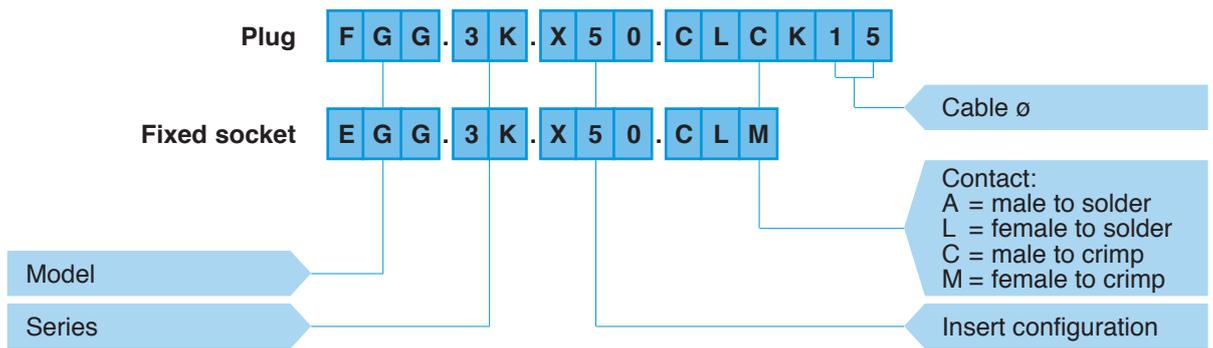
Finally the 5B/5K/5W series can offer a solution for up to 10 x HD-SDi signals.

Features:

- 75 Ω at 3GHz
- VSWR < 1.2
- From HDTV (3B series) to 8K TV (5B series)



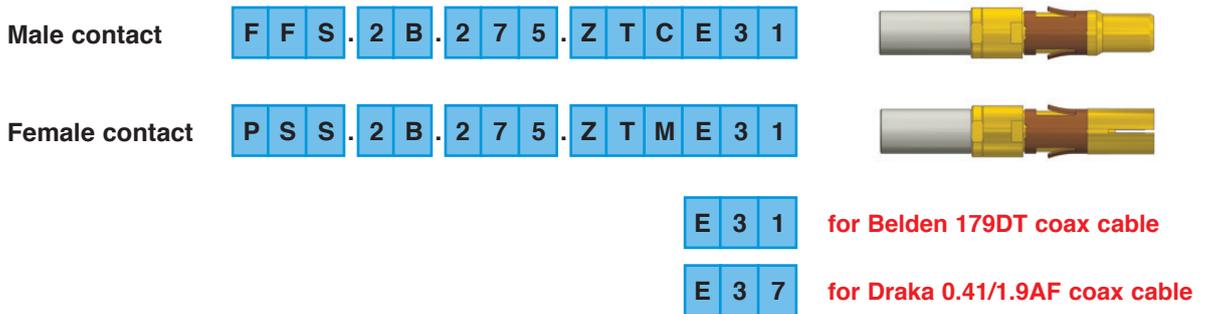
Part number system (with LV contacts, without coax contacts)



FGG.3K.X50.CLCK15 = straight plug, with key (G) and cable collet, 3K series, coax + LV type, outer shell in chrome-plated brass, PEEK insulator, 2 coax contacts (to order separately) and 10 male LV crimp contacts.

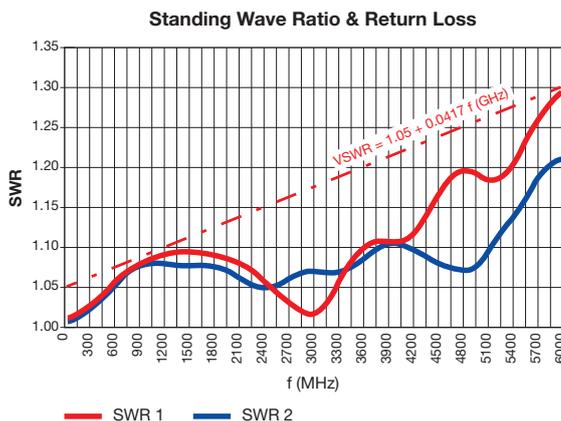
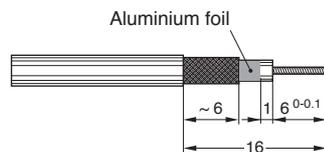
EGG.3K.X50.CLM = fixed socket, nut fixing, with key (G), 3K series, coax + LV type, outer shell in chrome-plated brass, PEEK insulator, 2 coax contacts (to order separately) and 10 female LV crimp contacts.

Coaxial contact part number, to order separately

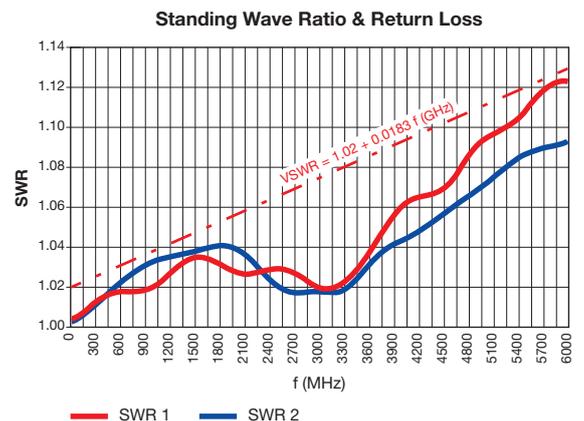
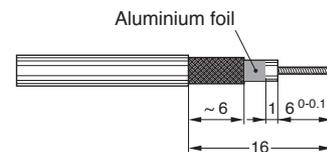


These solutions enable to run coaxial 75 Ohms at 6 GHz for these two exact cable references. These new coaxial contacts can be used in a large variety of LEMO connectors of the B, K, T, M and W series by using the LEMO C type coaxial contact cavities.

Belden 179DT coax cable



Draka 0.41/1.9AF coax cable



Insert configuration (B, K, T and W series)

Mixed: multi coax, coax + LV

		Reference	Number of coaxial contacts	Low voltage (LV)						
				Number of contacts	ϕA (mm)	Contacts type		Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
						Solder	Crimp			
2B 2K 2T 2W		X10	1	10	0.7	●	●	0.95	1.35	7
3B 3K 3T 3W		X22	1	22	0.7	●	●	0.70	1.00	5
		X44	2	4	0.9	●	●	0.90	1.30	10
		X46	2	6	0.9	●	●	0.90	1.30	10
		X50	2	10	0.7	●	●	0.75	1.05	8
		X56	2	16	0.7	●	●	0.70	1.00	7
		X42	2	–	–	–	–	–	–	–
		X43	3	–	–	–	–	–	–	–
		X62	3	2	0.9	●	●	1.10	1.60	9
4B 4K 4W		X52	2	12	0.9	●	●	0.90	1.30	8
		X56	2	16	0.9	●	●	0.90	1.30	8
		X58	2	18	0.7	●	●	0.80	1.10	7
		X66	3	6	0.7	●	●	0.80	1.10	7
		X85	3	12	0.7	●	●	0.80	1.10	8
		X44	4	–	–	–	–	–	–	–
		X79	4	9	0.7	●	●	0.90	1.30	8
5B 5K 5W		X40	10	–	–	–	–	–	–	–

Insert configuration (M series)

Mixed High-Speed coax

		Reference	Coax				Number of contacts	ø A (mm)	Crimp contact	AWG	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Rated current (A)
			Number of contacts	Impedance (Ω)	Type	Cable							
2M		X04	1	75	C	RG179	2 2	0.9 1.3	●	22-24-26 16-18-20	0.75	1.05	10 7

Type C coaxial contacts for B, K, T, M and W series

Type	Impedance (Ω)	Cond. fixing	Screen fixing	Cond. ø maxi	Dielectric ø maxi	Sheath ø maxi	VSWR (f=GHz)	Test voltage (kV rms)	Rated current (A)
E31	75	crimp	crimp	0.4	1.6	3.0	< 1.2	0.85	1
E37	75	crimp	crimp	0.4	2.0	3.6	< 1.2	0.85	1

Note: These contacts require specific tools for assembly on the cable.

Tooling for coaxial contacts of B, K, T, M and W series

Coaxial contact type	Reference		
	Crimping tool with die	Spanner for tightening the contact	Extractor
E31	DPE.99.083.8K	DCP.99.040.TC	DCC.91.384.5LA¹⁾
E37	DPE.99.124.3K	DCP.99.040.TC	DCC.91.384.5LA¹⁾

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

The type C cavities can be fitted also with:

- High Voltage contacts FFS.2B.401.--- / PSS.2B.401.---
- 50 Ω coax contacts FFS.2B.250.--- / PSS.2B.250.---
- F1 optic contacts FFS.F1.--- / PSS.F1.---
- Fluidic contacts FGG.P1.150.--- / EGG.P1.150.---

Contact us for more information (hybrid cables, ...).

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[FGG.3B.X43.CLZD11](#) [PSS.2B.275.ZTME31](#) [DPE.99.083.8K](#) [EGG.3B.X43.CLZ](#) [FFS.2B.275.ZTCE31](#)
[EGG.4B.X44.CLZ](#) [FGG.4B.X44.CLZD13](#)