

75 Ω – 3GHz/6GHz COAXIAL CONTACT



75 Ω /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.

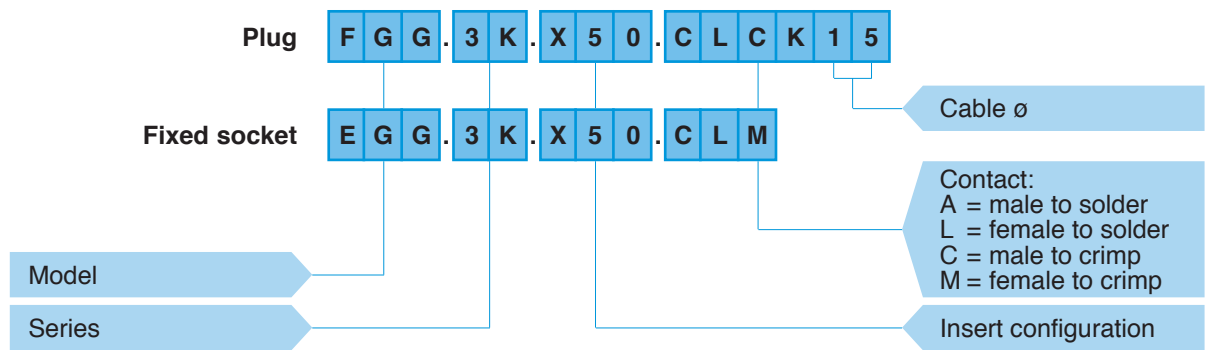
Finally the 5B/5K/5W series can offer a solution for up to 10 x HD-SDi signals.

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.

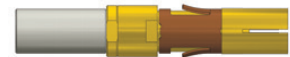
EGG.3K.X50.CLM = fixed socket, nut fixing, with key (G), 3K series, coax + LV type, outer shell in chrome-plated brass, PEEK insulator, 2 coax contacts (to order separately) and 10 female LV crimp contacts.

Coaxial contact part number, to order separately

Male contact: F F S . 2 B . 2 7 5 . Z T C E 3 1



Female contact: P S S . 2 B . 2 7 5 . Z T M E 3 1



E 3 1

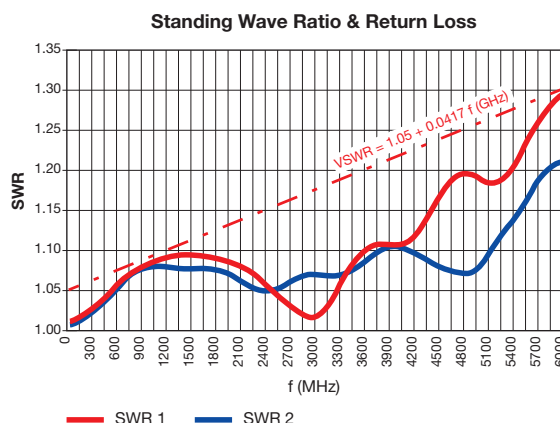
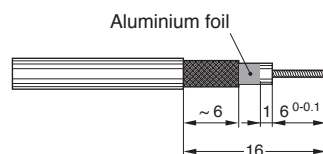
for Belden 179DT coax cable

E 3 7

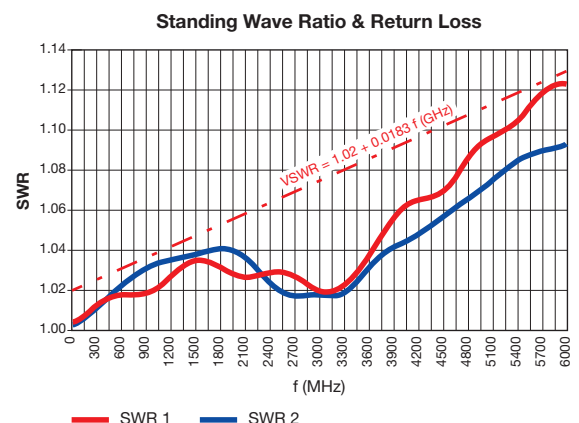
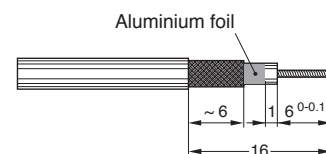
for Draka 0.41/1.9AF coax cable

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

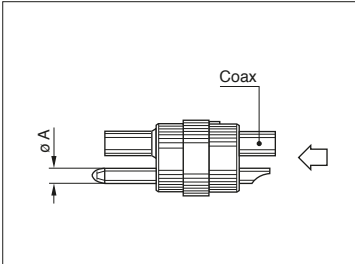



















Draka 0.41/1.9AF coax cable



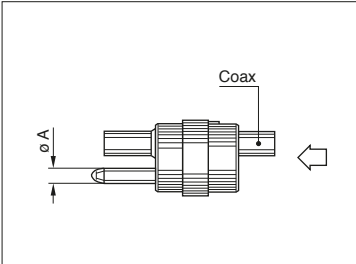

Insert configuration (B, K, T and W series)

Mixed multi coax, hybrid coax + LV

		Reference	Number of coaxial contacts	Low voltage (LV)						
				Number of contacts	ø A (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)

Hybrid 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.CP1.LAG¹⁾
E37	DPE.99.124.3K	DCP.99.040.TC	DCC.91.CP1.LAG¹⁾

Note: ¹⁾ for the 3B/3K.X43 and 3B/3K.X62 the part number of the extractor is 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, ...).

LEMO HEADQUARTERS

SWITZERLAND
LEMO SA
Chemin des Champs-Courbes 28 - P.O. Box 194 - CH-1024 Ecublens
Tel. (+41 21) 695 16 00 - e-mail: info@lemo.com

www.lemo.com

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