

## 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.

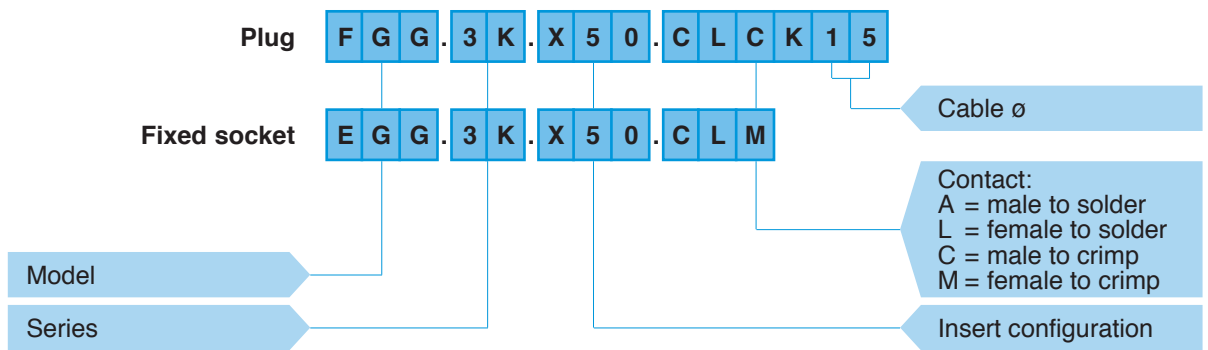
Finally the 5B/5K/5W series can offer a solution for up to 10 x HD-SDi signals.

#### 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

**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

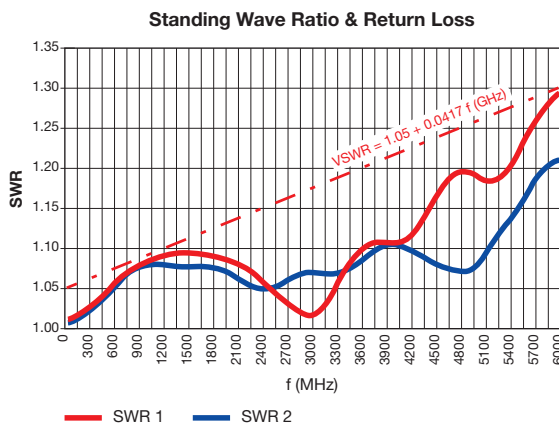
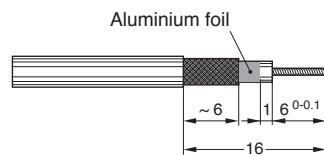


**E 3 1** for Belden 179DT coax cable

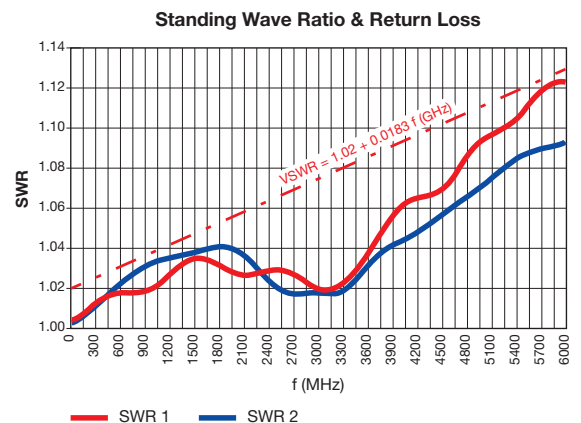
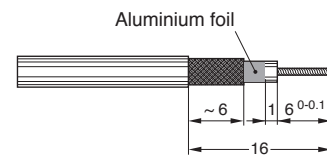
**E 3 7** for Draka 0.41/1.9AF coax cable

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



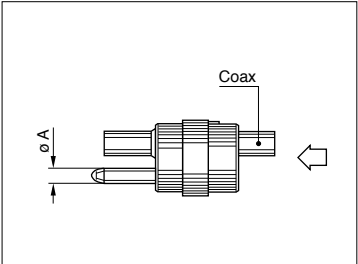
## Insert configuration (B, K, T and W series)

### Mixed: multi coax, 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			
<b>2B</b> <b>2K</b> <b>2T</b> <b>2W</b>		<b>X10</b>	1	10	0.7	●	●	0.95	1.35	7
<b>3B</b> <b>3K</b> <b>3T</b> <b>3W</b>		<b>X22</b>	1	22	0.7	●	●	0.70	1.00	5
		<b>X44</b>	2	4	0.9	●	●	0.90	1.30	10
		<b>X46</b>	2	6	0.9	●	●	0.90	1.30	10
		<b>X50</b>	2	10	0.7	●	●	0.75	1.05	8
		<b>X56</b>	2	16	0.7	●	●	0.70	1.00	7
		<b>X42</b>	2	–	–	–	–	–	–	–
		<b>X43</b>	3	–	–	–	–	–	–	–
		<b>X62</b>	3	2	0.9	●	●	1.10	1.60	9
<b>4B</b> <b>4K</b> <b>4W</b>		<b>X52</b>	2	12	0.9	●	●	0.90	1.30	8
		<b>X56</b>	2	16	0.9	●	●	0.90	1.30	8
		<b>X58</b>	2	18	0.7	●	●	0.80	1.10	7
		<b>X66</b>	3	6	0.7	●	●	0.80	1.10	7
		<b>X85</b>	3	12	0.7	●	●	0.80	1.10	8
		<b>X44</b>	4	–	–	–	–	–	–	–
		<b>X79</b>	4	9	0.7	●	●	0.90	1.30	8
<b>5B</b> <b>5K</b> <b>5W</b>		<b>X40</b>	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							
												
<b>2M</b>	<b>X04</b>	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)
<b>E31</b>	75	crimp	crimp	0.4	1.6	3.0	< 1.2	0.85	1
<b>E37</b>	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	<b>DPE.99.083.8K</b>	<b>DCP.99.040.TC</b>	<b>DCC.91.384.5LA<sup>1)</sup></b>
E37	<b>DPE.99.124.3K</b>	<b>DCP.99.040.TC</b>	<b>DCC.91.384.5LA<sup>1)</sup></b>

**Note:** 1) for the 3B/3K.X43 and 3B/3K.X62 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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