

# **Selection of Conductive Foams**

# **CONDUCTIVE FOAMS**



Laird's Ecofoam<sup>™</sup> conductive foams offer an innovative approach to traditional shielding and grounding by providing X, Y, and Z-axis conductivity, enhancing the shielding effectiveness required to meet the increasing microprocessor speeds of today's computer, telecommunications, and other electronic equipment.

Via the unique patented proprietary technology, Ecofoam<sup>™</sup> conductive foams can be treated with flame retardant, and can be supplied in either natural or black color.



Ecofoam<sup>™</sup> conductive foams are designed for low-cycling applications such as input/output (I/O) shielding and other non-shear standard connectors. They can be further customized to your application by die-cutting, hole-punching, notching, and so on and is especially useful for odd-shaped applications which are difficult to shield with typical profile gaskets.

# **COMPOSITION OF ECOFOAM™ FAMILIES**



### CF500/CF700



Conductive mesh Conductive PU foam Ni/Cu Conductive fabric Conductive PSA (optional)

Conductive PU foam Ni/Cu Conductive mesh fabric Conductive PSA (optional)

CF600/CF800



Conductive PU Foam Ni/Cu Conductive mesh fabric Conductive PSA (optional)

### **Product Name Designation**

	Thickness											
	0.5mm	0.7mm	1.0mm	1.5mm	2.0mm	3.0mm	4.0mm					
CF100			CF110	CF115	CF120							
CF500	CF505	CF507	CF510	CF515	CF520	CF530	CF540					
CF600			CF610	CF615	CF620	CF630						
CF700	CF705		CF710	CF715	CF720	CF730	CF740					
CF800			CF810	CF815	CF820	CF830						



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Available Thicknesses(mm)

STANDA	RD PRODUCTS	0.3 0.5 0.7	1 <sup>1.5</sup> <sup>2</sup>	3	4 5	6	
CF400	Conductive foam only. Free to laminate with various fabrics, or other foams.	, PSAs,	<b>A</b> • •	•••	•		
CF500	Conductive foam with conductive fab Balance performance.	pric laminated.		•••	•		
CF600	Conductive foam with conductive fab Black color.	pric laminated.		•••	•		
CF700	Standard conductive foam with UL94 Laird patented specialty.	V0 FR rating.	•	•••	•		
CF800	Conductive foam with UL94V0 FR ra Laird patented specialty. Black color.	iting. Flame Retardant		•••	•		
CF100	Laird patented specialty conductive f UL94V8 rating.Two-sides fabric lamin offer strong physical properties. Good for narrow width application. Limitation: roll type is not available.	oam with nated to Flame Retardant	i	•••	<b></b>		

• Standard A Customized available

# **CHARACTERISTICS**

### **Shielding Effectiveness**



### **Thickness Variance**

 $\pm 30\%$  (0.7mm and below)  $\pm 20\%$  (1.0mm and above)

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# **NOTICE OF SELECTION**

CF500 is the first choice of conductive foams if no flame retardant request. CF700 is the first choice for flame retardant request. CF100 is good in narrow width application but with higher price. It would be good to keep the compression ratio of conductive foam within 20% to 50% of original height.

### **OPERATION TEMPERATURE**

Laird's Ecofoam<sup>™</sup> conductive foams will keep in good rebound force and very little resistance changed for years under -40°C to 70°C after application. Long term under high temperature environment is not recommended.

# SHELF LIFE AND STORAGE CONDITION

12 months from date of shipment in sealed bag under 0-40°C. Suggest keep in low humidity environment (below 50%).

### **ORDERING INFORMATION**

LT-Shenzhen (CF600/CF700/CF800/CF100) and LT-Kunshan (CF400/CF500) are the key manufacturing sites of Conductive Foams.

### **Dimension Available**

Laird offer several thicknesses of Ecofoam<sup>™</sup> conductive foams for selection. Customized thickness request between 0.5mm to 4.0mm are available (with MOQ 200sqm or equivalent). They can be further customized to an application by die-cutting, lamination, or assembling with other flex or metal materials.

### Part Number Example

Digits:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	С	F	7	2	0	А	А	0	1	0	5	0	2	0	0
	PRO EX:	PRODUCT NAME EX: CF720 = CF700 Series 2.0mm thickness				SITE ENG CODE: this is defined by site eng team(refer to "SITE ENG CODE" sheet) AA, AB AC AD atc.			PRODUCT WIDTH (WIDEST) EX: 0105=10.5mm			PRODUCT LENGTH (LONGEST) EX: 0200=20.0mm EX: 020M=2.0m (if the part length is over 999.9mm, please define digit #15 as m[meter])			

#### SELECTION OF CONDUCTIVE FOAMS\_DS\_051519

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