

Selection of Conductive Foams

CONDUCTIVE FOAMS



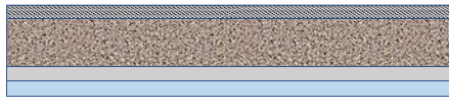
Laird's Ecofoam™ conductive foams offer an innovative approach to traditional shielding and grounding by providing X, Y, and Z-axis conductivity, enhancing the shielding effectiveness required to meet the increasing microprocessor speeds of today's computer, telecommunications, and other electronic equipment.

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

Ecofoam™ 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.

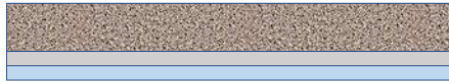
COMPOSITION OF ECOFOAM™ FAMILIES

CF100



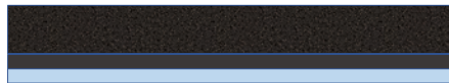
Conductive mesh
Conductive PU foam
Ni/Cu Conductive fabric
Conductive PSA (optional)

CF500/CF700



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	

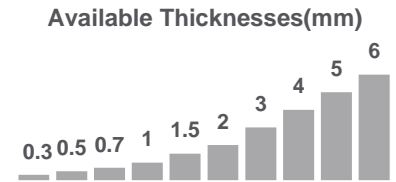


USA: +1 (866) 928-8181

Europe: +49 8031 2460 0

China: +86-7552 7141166

pm.lairdtech.com



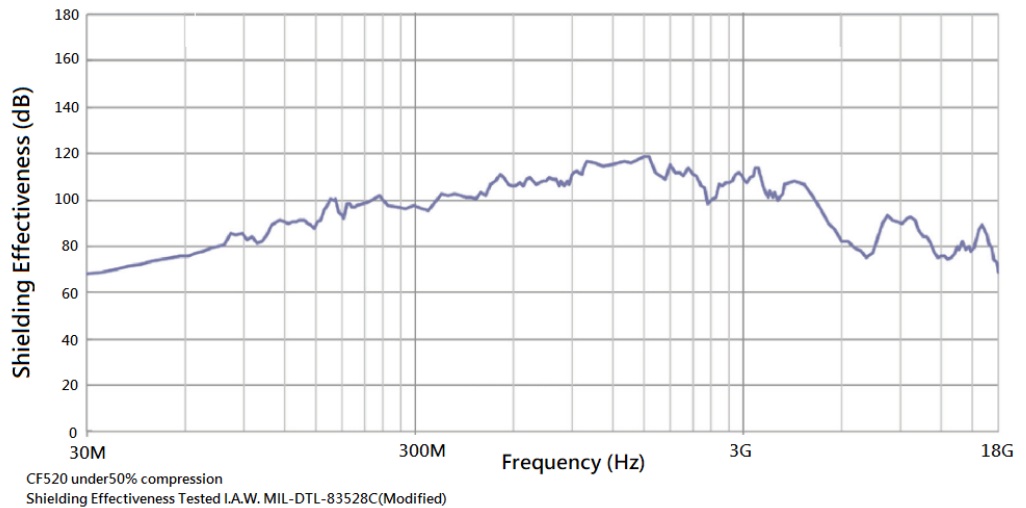
STANDARD PRODUCTS

CF400	Conductive foam only. Free to laminate with various fabrics, PSAs, or other foams.	▲ ● ● ● ● ● ● ● ▲ ▲
CF500	Conductive foam with conductive fabric laminated. Balance performance.	▲ ● ● ● ● ● ● ● ▲ ▲
CF600	Conductive foam with conductive fabric laminated. Black color.	● ● ● ● ● ▲
CF700	Standard conductive foam with UL94V0 FR rating. Laird patented specialty. Flame Retardant	● ● ● ● ● ● ●
CF800	Conductive foam with UL94V0 FR rating. Laird patented specialty. Black color. Flame Retardant	● ● ● ● ● ▲
CF100	Laird patented specialty conductive foam with UL94V8 rating. Two-sides fabric laminated to offer strong physical properties. Good for narrow width application. Limitation: roll type is not available. Flame Retardant	● ● ● ● ▲ ▲

● Standard ▲ Customized available

CHARACTERISTICS

Shielding Effectiveness



Thickness Variance

±30% (0.7mm and below)
±20% (1.0mm and above)

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™ 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™ 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
	C	F	7	2	0	A	A	0	1	0	5	0	2	0	0
	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...A9 etc		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])				