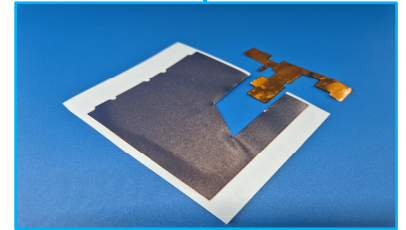


The use of plastic enclosures or enclosures poses problems of shielding or discharge electrostatic (D.E.S.). The product we offer is a special metal screen. Complex, it consists of a 35 μm copper sheet, laminated with a 25 μm polyester film. A second polyester film can be applied on the 2nd side, as well as an adhesive. The copper ensures a very good attenuation of the electromagnetic fields and a flow of the D.E.S. The polyester brings it the mechanical rigidity and the electrical insulation (voltage of breakdown 5KV) which makes it possible to place this product in contact with the conductive elements. We can on request for large quantities change the thickness of copper and insulation, or offer other materials: aluminum, kapton...



Implementation:

Once cut this product can be used flat, folded (with pre-folding by us) to form a volume, like a cap of Cem shielding. The slots can be closed using copper tape. To reduce the impedance of the connections, it is desirable to multiply the points of contacts by favoring the recovery of mass by flexible braid or screw.

Benefits:

- Very low weight (very light weight/ to a class EMC shielding cover)
- Economical in large series
- Cuts very easily for simple implementation
- Continuity between the mass of the PCB and its box possible according to plan
- Available in rolls of 300 mm * 1 meter (maximum length 10 ML)
- Shielding possible in inaccessible areas or little room for a Cem cover

Disadvantages:

- Tooling investment too large for series < 1000 pcs
- Interesting for medium series

Temperature:

-40 à + 125 °C

Shielding Attenuation:

f (MHz)	Atténuation (dB)	f (MHz)	Atténuation (dB)
20	> 62.5		
30	> 64.5	250	> 63
50	> 63	300	> 60
60	> 67.5	500	> 61.5
80	> 63.5	600	> 67
90	> 61	700	> 55
100	> 60	800	> 52
150	> 54.5	900	> 45
200	> 60.5	1000	> 59

The results were obtained under laboratory conditions and should be considered only as an indication. As AB2E has no control over its customers' equipment and many other factors, it is the user's responsibility to carry out its own tests to ensure that the product corresponds to its needs.