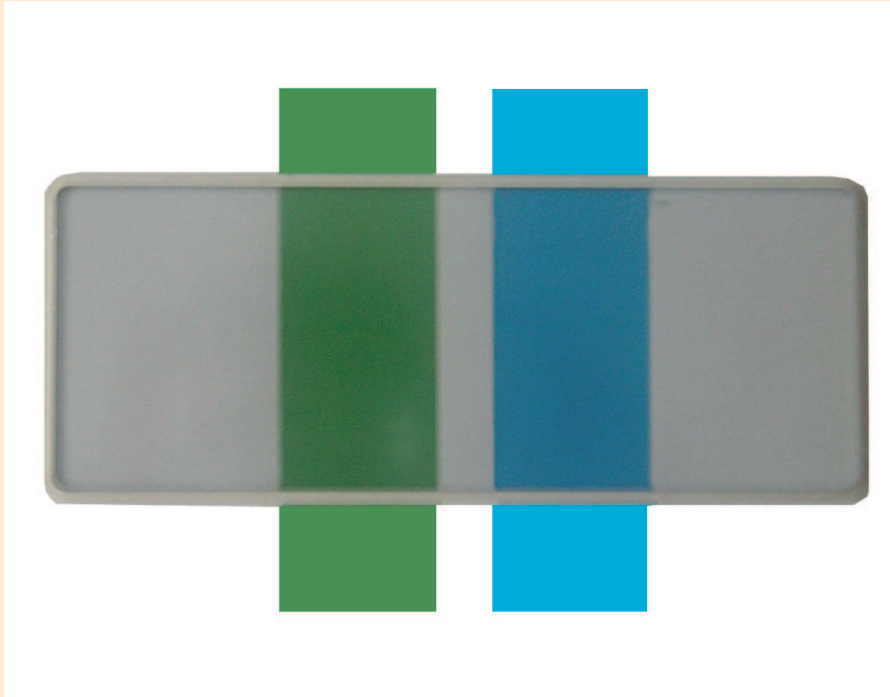


VS SERIES

EMC FILTERS



GENERAL INFORMATION

VS SERIES IS A COMPLETE RANGE OF OPTICAL FILTERS WITH AN EMBEDDED METAL MESH FOR THE SUPPRESSION OF ELECTROMAGNETIC FIELDS.

THE PROPERTIES OF EMC FILTER

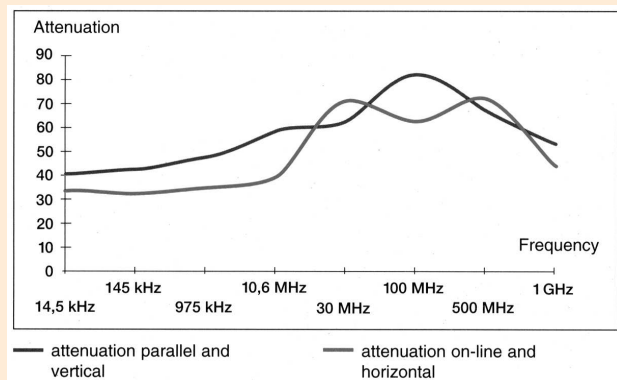
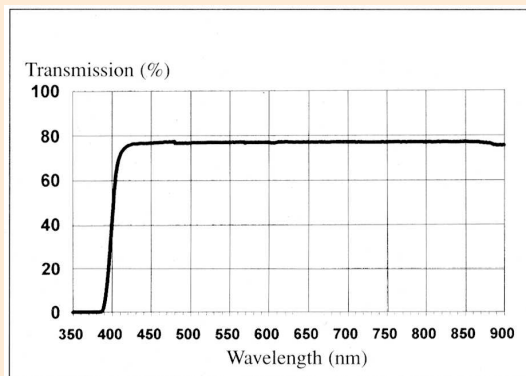
A TECHNIQUE HAS BEEN DEVELOPED IN ORDER TO MAKE POSSIBLE TO EMBED THE METAL MESH AS AN INTEGRAL PART OF THE ACRYLIC FILTER SO THAT UNNECESSARY REFRACTION SURFACES ARE NOT CREATED. THE EMBEDDED MESH IS TYPICALLY RUSTPROOF, BUT OTHER TYPES OF MESH CAN BE SUPPLIED FOR OTHER APPLICATIONS.

THE EMC FILTERS CAN BE MOUNTED AT ANY ANGLE BETWEEN 0° AND 45°.

TRANSMISSION AND SHIELDING

ALL EMC SHIELDING IS A COMPROMISE BETWEEN THE SHIELDING EFFECT AND THE READABILITY. THE MOULDING TECHNIQUE RESULTS IN A LIGHT TRANSMITTANCE OF 78% FOR THE EMC FILTER IN RELATION TO TRANSPARENT ACRYLIC.

THE EMBEDDING OF THE METAL MESH IN ACRYLIC FILTER RANGE HAS MINIMAL SIGNIFICANCE AS FAR AS THE SPECTRAL CHARACTERISTIC OF THE EMC FILTER IS CONCERNED. THE STEEL MESH IS NOT REFLECTIVE AND WHEN MIXING THE COLOUR PRIOR TO MOULDING THE ACRYLIC SHEETS, ADJUSTMENTS ARE MADE TO COMPENSATE FOR THE TRANSMISSION ATTENUATION CAUSED BY THE MESH.



VS SERIES

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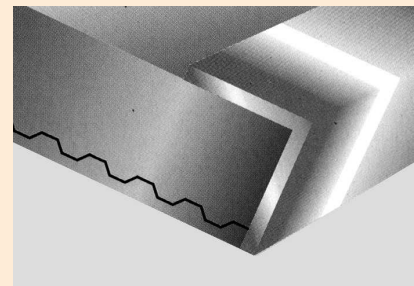
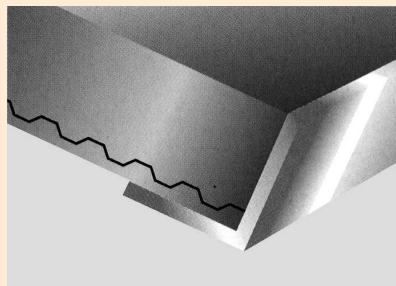
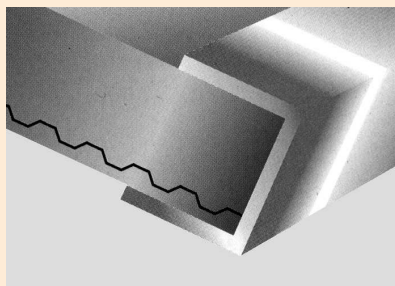
CONTACT WITH THE CABINET

IN ORDER FOR THE FILTER TO BE ABLE TO MEET THE SPECIFIED DATA, IT IS VITAL THAT ELECTRICAL CONTACT IS MADE BETWEEN THE ENTIRE PERIMETER OF THE MESH AND THE CABINET OF THE APPARATUS. THIS CONTACT CAN BE ESTABLISHED BY APPLYING SILVER PAINT TO THE EDGE OF THE FILTER.

THE EMC FILTER SHOULD THEN BE MOUNTED IN THE PANEL WITH A CONDUCTING GASKET OR CONDUCTING GLUE.

FURTHER REFINEMENT

THE EMC FILTERS CAN BE SUPPLIED WITH MAT-FINISH SURFACE TREATMENT, WHICH PREVENTS DISTRACTING REFLECTIONS FROM THE SURROUNDINGS WITHOUT REDUCING THE QUALITY OF THE SIGNAL. IT IS POSSIBLE TO HAVE THE FILTERS MACHINED, FOR INSTANCE, USING LASER CUTTING AND MILLING TECHNIQUES. THE FILTERS CAN ALSO BE SUPPLIED WITH SILK SCREEN PRINTING.



TECHNICAL DATA

Light transmittance approx. 78% compared to transparent acrylic

Thickness: 1.5, 2.5, 3 and 4 mm

Supplied in approx. 40 different colours

Mesh: Bright (Non-standard) or blackened Wire diameter: 0.025 mm, 100 OPI. The mesh can be angled between 0° - 45°

Flexible, conductive silver or nickel edge

Standard operation temperatures between -40° to 70° C

Dimensions up to 1500 x 1000 mm

Non-standard mesh types can be embedded upon request

