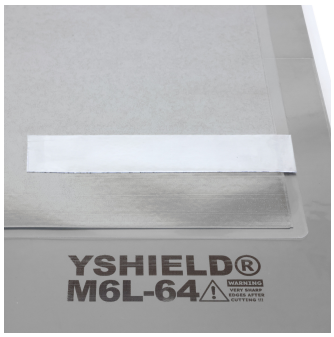
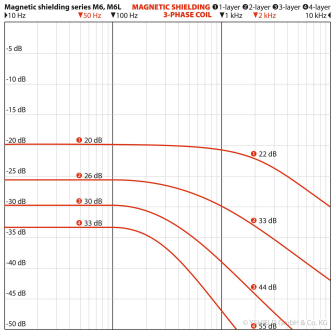
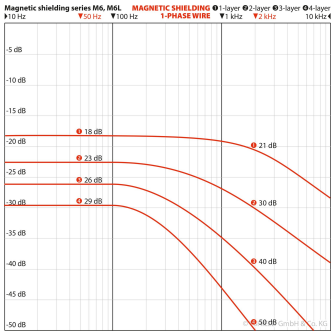
YSHIELD® M6L-64 | Six-layer magnetic field shielding plate | 59x40 cm

Standard size DIN A2 for many applications. New with ground connection. 20-33 dB shielding at 50 Hz.

YSHIELD® M6L-64







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M6L-64 is a magnetic field shielding plate for shielding low frequency magnetic fields. Highly resistant with laminating film on both sides, suitable as an intermediate layer in roof or floor constructions. Single-layer processing has the best price/performance ratio, for higher magnetic flux densities, multi-layer processing is required. For this product, we have **connected 6 very thin shielding foils together**, because several thin layers provide better shielding than one thick sheet.

It is suited for **small surfaces in a domestic environment**, as well as for **large surfaces in construction, trade or industry**. Additionally there are various application possibilities in **cars, electric vehicles, vans, mobile homes, campers**.

Technical data

- **Size: 59 x 40 cm (shielding surface);** 61 x 41 cm (total product)
- Thickness: 0.5 mm (0.7 mm overlapping)
- **Attenuation magnetic fields (Three-phase 50 Hz): Single-layer 19.5 dB (89.4 %), two-layer 25.7 dB (94.8 %), three-layer 30.2 dB (96.9 %), four-layer 32.6 dB (97.7 %)**
- Attenuation magnetic fields (Single-phase 50 Hz): Single-layer 17.7 dB (87 %), two-layer 23.2 dB (93.1 %), three-layer 26.8 dB (95.4 %), four-layer 29.3 dB (96.6 %)
- Attenuation magnetic fields (Static): DC consumers, earth magnetic field, permanent magnets are shielded in a range from 15 % (single-layer) to 58 % (four-layer)
- Minimum bending radius: 20 cm
- For reasons of innovation, we do not declare ingredients and magnetic key figures. **The high-tech material has a high initial permeability and high saturation induction from 5 Hz**.

Processing

Attention: The M6L-series can be cut with high-quality scissors! The cutting edges are as sharp and need to be protected (e.g. with fabric tape) immediately after cutting! Use cut-resistant gloves during processing! We recommend planning the installation of the plates in a way that you do not have to cut them! Pay attention with larger wall spaces that the plates are a water vapour barrier. **Processing with adhesive:** Only a few adhesives can bond laminating film made of PET (polyethylene terephthalate). For secure bonding, we recommend our acrylate-based **PSA adhesive**, which produces permanently self-adhesive layers. For wet bonding, work quickly and on small areas, then corrections can still be made. Non-absorbent substrates or multiple layers can be problematic because the solvent cannot dry out due to the vapor-tight film! With dry bonding, you have an immediate, very strong adhesion that can no longer be removed. **Application using a stapler or nailer:** If the substrate is suitable, we recommend using an electric stapler or nailer. For one layer including overlap, a medium-priced electric tacker is sufficient; for two or more layers, you will need a professional nailer. The shielding surface must overlap by at least 2 cm. **Multilayer installation**: Always install the plates in an offset position - the surface is to cover the overlapping underneath.

Grounding

When shielding magnetic fields, also pay attention to the electric fields. Grounding must be carried out to prevent the spread of electric fields. The M6L series is easy to ground, as an aluminum strip is led out at one corner, which can be easily contacted and grounded with our **GSX10** or **GSX50** grounding strip. Further components can be found under “Grounding”.

Laboratory & expert report

We have already invested in our **own professional EMV laboratory** years ago. We not only use it to create our laboratory screening reports but also to check each batch daily. Additionally, we have all our products checked by an **independent, well-respected expert**. Double checked for twice the safety. **Please find the reports above at the downloads**.