

# COMBI-SHIELD™

## New EMC solution



### Technical Data

- Minimum frame width: approx 12 mm
- Temp. range: – 46 to + 95 °C
- Metal frame: Aluminium type AW 5005
- Frame thickness: from 1mm
- Conductive, corrosion resistant coating: Iridite NCP MacDermid®
- Mesh type: SG458/50 standard and other types upon request
- Mesh orientation: 0 to 45°
- Mesh blackening

Combi-Shield™ is an EMI-shielding solution which can be combined with almost any type of front display window. It is especially suitable for touch-screen applications or for retro-fitting an EMC solution into an existing display or monitor design. Furthermore, due to the excellent shielding performance, Combi-Shield™ is an ideal choice for TEMPEST applications.



### Properties

Combi-Shield™ is a blackened “flying mesh” which is stretched and mounted on a thin, rigid conductive and corrosion resistant metal frame. The direct metal overlap and contact ensures that the application benefits from the maximum shielding potential for the chosen mesh.

The solution can be integrated in a current application needing EMI shielding without changing anything else. Combi-Shield™ is very thin and only takes up 1-1.5 mm space. Frame geometry can be optimised for the application.

Combi-Shield™ can be applied independently on the chosen front window solution. This means that no restrictions apply when combining optical qualities with EMI shielding. Both can be optimised for the specific application.

### Further refinement

The Combi-Shield™ frame is made of aluminium as standard. Depending on the application, other metals may be used if needed to meet special construction or performance requirements.

