

Advantages at a glance

- ✓ 18 dB magnetic attenuation compared with an unprotected arrangement of cables
- ✓ Two-and-a-half times higher attenuation (8 dB) than standard PFLITSCH Industrial-Trunking
- ✓ Component dimensions similar to standard Industrial-Trunking
- ✓ Comprehensive edge protection with rounded edges and domed nuts
- ✓ Robust walkable construction
- ✓ Quick installation thanks to press-fitted domed nuts
- ✓ Complete documentation of component assemblies (parts lists and drawings): Itemised parts list for easier installation
- ✓ Optional EMC test report for customer documentation
- ✓ Can be combined with PFLITSCH cable glands



For more information, please visit our website: www.pflitsch.de/en/



Passion for the best solution

PFLITSCH GmbH & Co. KG

Ernst-Pflitsch-Straße 1 Nord 1 · 42499 Hückeswagen · Germany
☎ +49 2192 911-0 · ✉ info@pflitsch.de · www.pflitsch.de

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Produktinformation_EMV-Kabelkanalsystem_GB | Stand: 03.2019 | 110616

EMC-Trunking system

PFLITSCH's new EMC-Trunking system is the solution for challenging applications in which cables require to be routed in an EMC-safe manner.

Cables reliably shielded



The increasing use of electronics and wireless communication devices in the field of automation – with signal levels lowering and sensitivity of devices rising – is leading to an increase in electromagnetic risks. This can result in interference, outages and defective products, not only in challenging applications such as biomedical engineering and research, but also in machine and plant engineering. In times of increasing networking, this could prove disastrous. Cables and housings must therefore be made EMC-safe.

With the company's EMC-Trunking, PFLITSCH has produced an efficient solution based on years of experience that offers enhanced EMC safety for cabling, e.g. in machine and plant engineering, testing laboratories, test centres, telecommunications and biomedical technology.

PFLITSCH's EMC-Trunking is a unique product for the field of cable routing. It is based on the company's tried-and-tested Industrial-Trunking.

One of the special features of EMC-Trunking, in addition to the type and thickness of material used, is the threaded fastener connection points spaced at a maximum of 50 mm along the trunking components. These allow the trunking body and cover or accessory fittings to be connected together tightly to form a trunking unit with negligible gaps. As a result, very little electromagnetic interference can escape or enter. Cables placed in the trunking are much better protected from outside interference.



When tested for a customer application in a magnetic-field environment, this combination achieved a screening attenuation of 18 dB compared with an unprotected arrangement of cables. Our standard trunking system, on the other hand, achieved 10 dB attenuation in the same application.

Every PFLITSCH EMC-Trunking component assembly is unique and made specially to suit the customer's requirements. On request, an official test report on the attenuation value can be prepared for each component and an itemised parts list, including a drawing, makes the installation of the complete system even easier.

EMC-Trunking technical details:

- Material: steel 1.0226
- Surface finish: zinc-plated steel
- Material thickness: 2.0 mm
- Component length: customer specific up to 2000 mm
- Dimensions: customer specific from 50 mm x 50 mm to 600 mm x 150 mm
- Connection type: push-in and screwed with M6 x 6
- Distance between screwed connections: max. 50 mm

Test results:

In the laboratory, PFLITSCH EMC-Trunking achieved a magnetic attenuation value of 18 dB. This is to two-and-a-half times higher than the value achieved by standard Industrial-Trunking. The screening attenuation and transfer impedance were measured using a 0.05 kHz (50 Hz) input frequency with a current of 9.5 A by substitution measurement.