

Laying guidelines

Data cables of the series FABER® dataline are generally only suitable for indoor use (exception: FABER dataline OUTDOOR). Herewith, the following should be considered:

Regulations, norms and directives

In general, the regulations and directives depend on the respective country and the hardware and component manufacturers.

Quality assurance at the construction site

Before the installation, please check the following aspects:

- Has the correct cable been delivered?
- Does the product show any transport damage?
- Is there an interim storage for the cables on site?
- Do the categories of cable and connection components match?
- Are there screened connection components to connect the screened cable available?

Open-trays installation, wall openings, cable ducts

Open-trays installation is only possible when the cables are protected from mechanical damages (e.g. vertical cable shafts, connection shafts, telephone junction boxes, etc.).

In order not to risk any damages on the cable, wall openings prior installation is recommended.

Clamps or cable ties are suitable for cable fastening on profile rails (e.g. vertical cable shafts, connection shafts, telephone junction boxes, etc.).

The clamps or ties must be installed in a way that there is no danger of squashing.

Furthermore, the cables must not be exposed to pressure coming from improper trampling on the cable as this adversely affects the transmission properties.

The bending radius of the cable may not fall under the limit provided in the data sheet. Installation is according to EN 50173: min. 8 x outer diameter.

Lubricants during installation

Please use lubricants to reduce the frictional resistance of larger lengths during installation.

We hereto recommend the usage of wire-pulling lubricant from Klein Tools 51000), talcum, detergent or soft soap.

Do not use oily or greasy products.

Tensile forces

The permitted tensile forces are to be found in the data sheets of the respective cables. They only apply to the installation.

Constant traction is not permitted after installation.

Cable installation

The cables shall always be laid directly from the cable tray. Only use suitable lifting equipment for the transport of the trays. To avoid twists, the cable shall not be unwinded laterally.

Please always make sure to pull in the cable with a cable grip, to seal the end of the cable properly.

Heat exposure

In case of direct heat exposure, the electrical properties of the cores change with Foam Skin isolation. Therefore, the heat shrink technology cannot be applied.

Distance to other cable types

Data cables in cable ducts must be separated from other cable types using separators.

Connection in patch panel and RJ45 plug

Usually, installation cables of the respective plug system must be added to the calculation. Avoid excess lengths (spare cable loops).

The foil of screened cables must be led to the terminal as close as possible.

Storage

If data cables are not installed directly after delivery, they should be stored protected from UV irradiation, as well as mechanical and thermal factors.

The storage place must be dry and protected from climatical influences and the stored goods are to be kept in their original packaging until required for installation.

Please ensure that the ends of the cables are sealed properly due to their loose shape (just like all symmetric data cables).

Thus, a capillary effect is possible, liquids can intrude into the inner of the cable. If so, the capacity and impedance of the cable can change, so that the data transmission is reduced.