

Qualified enclosed cable tray

For nuclear power plants

How to increase flexibility by reducing time and costs during cable installation

Challenge

Connections between main cable ways and consumers are usually executed with cable conduits.

IEEE 384 or EMC-requirements need enclosed cable support systems.

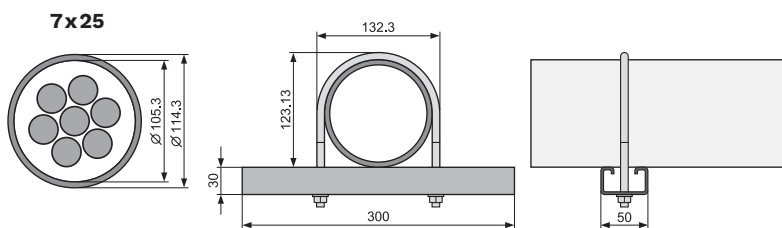
Cable pulling has to be designed and configured.

Mistakes in calculation of size and quantity will result in blocked conduits incapable of further cable pulling or pulling back wrong cable.

The maximum usage of a conduit is 60% of space.



Example: cable support systems filled with cable
left side cable tray 100x110 – right side conduit M63



Solution

Usage of cable tray in size 100x110 mm with lid.

Fulfilling separation requirements according IEEE 384.

Divider strip can be installed to separate safety from non-safety cable.

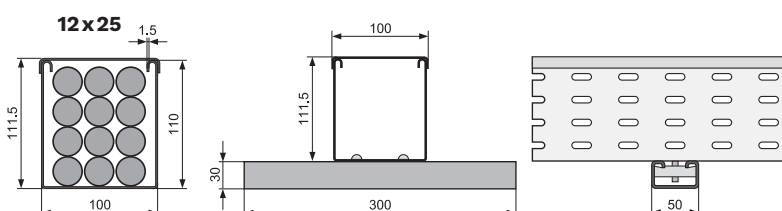
Erection time approx. 3 min./m.

Length of cable tray with lid 6 m.

Bends, T-pieces and other formed components belong to portfolio.

Cable can be laid instead of pulled.

Additional cable connections can be executed one after the other.

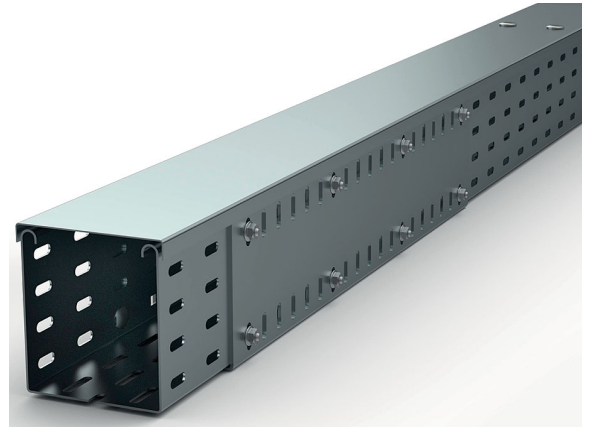


Customer benefits

- Simple installation
- 50% erection time of a conduit
- Easy to lay cable
- Double the length of a conduit with 60% less weight
- Requirements for separation according IEEE 384 fulfilled
- Parallel placement of safety and non-safety cable via divider strip
- 1.5 up to 2 times more space for cable as a conduit DN 100
- No heat accumulation – Airflow via the bottom plate and side rails
- Preferred for laying fiber optic cable
- Usable for laying capillary pipes

Technical information

- Cable tray in size 100x110 mm with metal sheet thickness 1.5 mm.
- Metal sheet galvanized and hot dip galvanized in length 6000 mm.
- Extension with additional cable tray via connectors.
- Formed components like bends and t-pieces can be connected to the cable tray.
- Enclosed cable laying ensured with lids on all parts.
- Fastening through bottom plate or side rail.
- 1.5 up to 2 times more space for cable than conduit DN 100.
- No deadlocking of cable.
- Easy exchange of wrong laid cable.
- Identification of cableway with labels easy to fix to side rail or lid.
- Additional separation strip can be fastened to the bottom plate.
- Lid fastened via included lockers for non seismic requirements or stainless steel strap for seismic requirements.



Cable tray 100 mm width – 110 mm height – 1.5 mm thick with Lid and straight connector

Key figures

Light weight **5 kg / m**

Erection time approx. **3 min. / m**

Separation requirements fulfilled

1.5 to 2 times more space

No damage by replacement in case of incorrectly pulled cables

Your performance
is **our** everyday **commitment**

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