FDC XL 2.6 –
Fibre distribution cabinet

All Langmatz fibre distribution cabinets can be used for Gigabit Passive Optical Network (GPON) and for Point to Point-Ethernet (PtP) technology in optical fibre access networks.

The fibre distribution cabinet FDC XL 2.6 is the maxi model in our product range. All requirements can now be met with the option of installing up to 168 micro-duct pipes.
Installation is simple, as the two separate areas for the optical fibre cassettes and the micro-duct pipes are very easy to access. The inside of the doors contains the fibre tray system for single and multiple fibre management to distribute and store the optical fibres from the central office to the networked buildings. The inside of the fibre distribution cabinet contains the micro-duct pipe management system for the organised storage of the micro-duct pipes and the entry port and strain relief of the optical fibre main cable from the central office. Its construction and functionality is similar to the FDC L version, except that it boasts almost twice its capacity.

▲ FDC XL 2.6

The outgoing micro-duct pipes are held securely in the combination of base plate, Duo clamps, and strain relief lugs. They are designed for Ø 7 / 10 mm. The insertion aid enables the micro-duct pipes to be installed quickly and easily.

The outgoing micro cables can be ideally inserted, as the micro-duct pipes can be easily removed from the Duo clamps and so guarantee simple access. Optical fibre cables in micro-duct pipes, as well as cables that can be buried underground, can be inserted and held in the fibre distribution cabinet in the access area in the centre. Just above this is an option to store excess lengths of unused or uncut bundled loose tube fibres (loop function).

Fulfils the criteria of the German National Broadband Funding Programme.

FDC XL 2.6

- ▲ 168 x micro-duct pipes with Ø 7 mm or Ø 10 mm and 168 x optical fibre micro cables with Ø 1.3 mm – Ø 4.0 mm
- ▲ Universal micro cable organiser for a Ø 2.5 – Ø 4.0 mm range
- ▲ Optimised cable routing from the cabinet to the doors and simple reconfiguration of additional cables until fully loaded
- ▲ Strain relief for the strength members of the inlet cables on the rear panel of the cabinet or doors is possible
- ▲ Insertion and mounting aid for the simplified insertion of the micro-duct pipes through the sealing plate
- ▲ Up to 12 x micro-duct pipes and mini cables are possible in the access area
- ▲ Improved micro cable routing, thanks to the optimised position of the micro cable organiser
- ▲ Cable routing is possible between the left and right door

▲ FDC XL 2.6 with splice cover with pedestal cover

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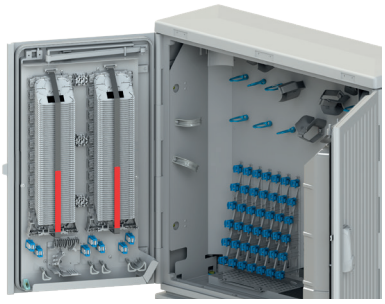
Expansion of fibre distribution cabinets

▲ **Access area:**
- Micro-duct pipe/mini cable inlet with fixing and strain relief for up to 12 x micro-duct pipes Ø 6.5 – 20 mm and associated optical fibre cables of up to max. Ø 10 mm is possible (standard: 4 x micro-duct pipes or mini cables)
- Strain relief for the optical fibre cables on the rear panel on the cabinet or door side
- Optimised mini cable routing throughout, from entry port, sealing and strain relief to the splice section
- Base plate for routing and sealing the micro-duct pipes and optical fibre cables
- Organisation and individual strain relief of the micro-duct pipes
- Option to loop and store uncut bundled loose tube fibres
- Option to store up to 6 m excess bundled loose tube fibres

▲ **Outlet area:**
- Micro cable organisation for different diameters of from 1.3 mm - 4 mm
- Micro-duct pipe capacity for 168 x Ø 7 mm / 168 x Ø 10 mm using the Duo clamp organiser
- Micro-duct pipe management system with DUO strain-relief lugs (Ø 7 mm and 10 mm) for the tool-free organisation and strain relief of outgoing micro-duct pipes
- Use of commercially available micro-duct gas stops is possible

▲ Door with fibre management

▲ **Optical fibre installation kit:**
- Mounting panel equipped with organiser modules to accommodate E&MMS fibre tray system
- Fibre tray slots for up to 264 splice fibre trays (5 mm) (maximum of 3168 splices) or up to 132 splice fibre trays (10 mm)
- Simple configuration of the splice fibre trays and tool-free replacement is possible
- Protective cover for the splice fibre tray area



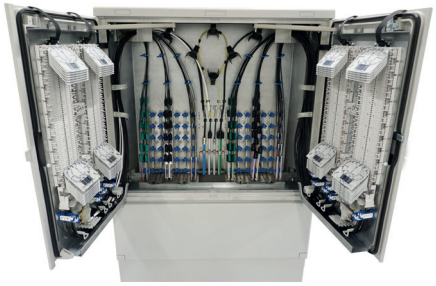
▲ FDC XL 2.6 without splice cover

Advantages of outdoor cabinets

▲ Outdoor cabinet made of modified polycarbonate (PC)

▲ UV- and weather-resistant, self-extinguishing, environmentally friendly and recyclable

▲ Housing with:
- Turning lever closing mechanism prepared for two profile half-cylinders
- Good access for installation and operation
- Ribbing to prevent poster sticking
- Cable routing into the pedestal from all four sides
- Predetermined break technology to protect the cabinet



▲ FDC XL 2.6 without splice covers

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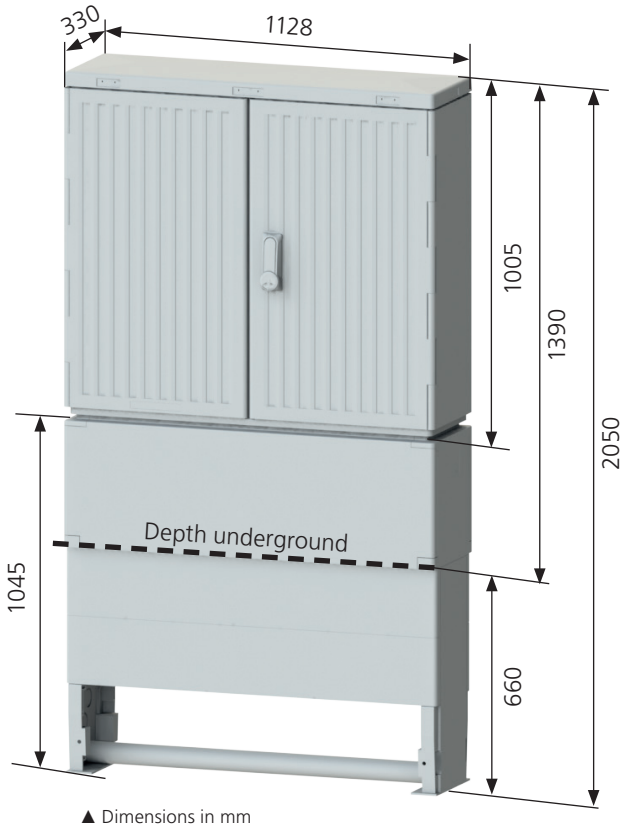
Technical data

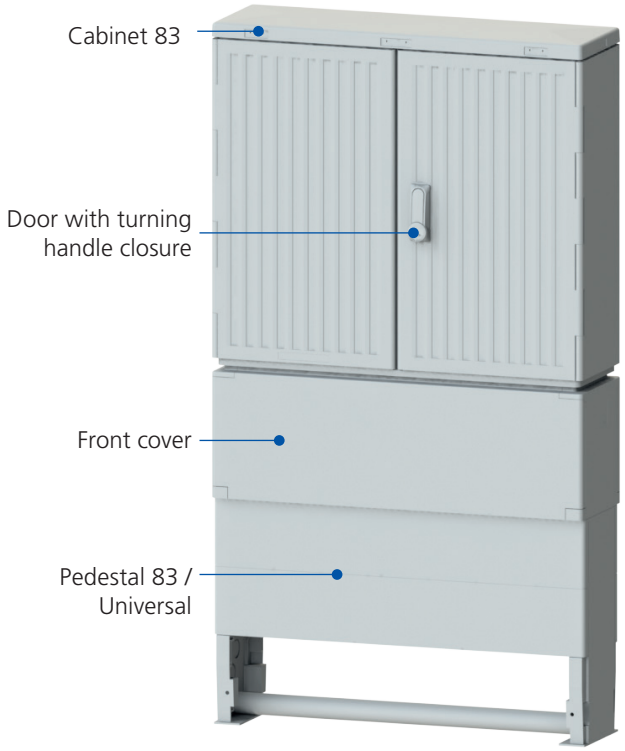
Designation	FDC XL 2.6
Dimensions	Height including pedestal: 2050 mm, width 1128 mm, depth 330 mm (with turning handle max. 365 mm)
Weight	approx. 120 kg (pedestal: approx. 30 kg and cabinet top part approx. 90 kg)
Material	Polycarbonate (PC)
Colour	RAL 7038
Protection rating	IP 54
Impact strength	IK 10

Dimensions



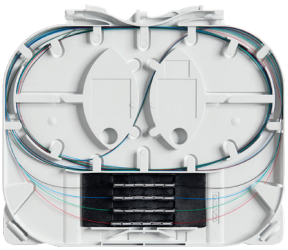
▲ Dimensions in mm

Construction



Accessories

- ▲ Labelling plate for the funded configuration
- ▲ E&MMS fibre tray system for single and multiple-fibre management (pack of 6 or 20)
  - Management of up to 12 splices per fibre tray
- ▲ Optical splitter / coupler
  - Available in different configurations and suitable for many applications
- ▲ Various sizes of strain-relief lugs and micro cable organisers
- ▲ Strain relief bracket for the access area, to extend to a maximum of 12 x inlets



▲ E&MMS fibre tray

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