

Optical fibre network distributor (above ground)

The optical fibre network distributor was designed for use in an outdoor cabinet made of polycarbonate. The optical fibre network distributor from Langmatz can be used at outside locations for low-cost network distribution where external conditions (the nature of the substrate, space constraints, etc.) mean that a manhole using fibre closure technology is not an option.

In addition, the optical fibre network distributor can also be set up inside a building without a housing being required and with a compact pedestal and base plate.

The optical fibre network distributor can be used for a Gigabit Passive Optical Network (GPON) and for Point to Point – Ethernet (PtP) technology in the optical fibre access network.

Dividing the inside of the cabinet into a space designated for optical fibre cassettes and one for micro-pipes offers the best possible support for all installation steps. Single and multiple fibre cassettes are available for managing the optical fibres. As an option, multiple fibre cassettes with passive optical adapters/splitters are possible. The micro-pipe management system ensures orderly management and a high level of operating comfort when inserting the optical fibre cables.

As an option, the optical fibre network distributor frame can be integrated in a Langmatz optical network management system, with a connection to a central network management system.



EK 245 CO-ODF



EK 30 CO-ODF Mini

Optical Fibre Network Distributor

The inside of the door contains the cassette system for the single and multiple fibre management system for distributing and storing the optical fibres from the central office to the networked buildings. When the system is used for GPON, passive optical adapters/splitters are installed in the multiple fibre cassettes.



The inside of the optical fibre network distributor contains the micropipe management system for the organised management of the micropipes and the entry port and strain relief of the fibre optic main cable from the central office.

The optical fibre main cable can be inserted and held in the optical fibre network distributor as a micro-cable in micro-pipes or as a standard cable (that can be laid underground).



Performance features | Optical fibre network distributor

- Installation of the optical fibre network distributor in a proven outdoor cabinet and outdoor pedestal made of polycarbonate
- Housing can be replaced if damaged
- Anti-poster surface protection with surface structure
- Two separate areas for optical fibre cassettes (splice section) and micropipes
- The optical fibre cassette area is protected by a lockable protective cover made of plastic
- Optical fibre cassette module rack for managing the E&MMS cassette system
- The E&MMS cassette system uses state-of-the-art technology
- Lateral layout of the optical fibres on the front level (no optical fibres leading from back to front is needed)
- Optimum conditions for inserting the optical fibre cable thanks to flexible micro-pipe sorting and fastening
- Clamping and sorting of the optical fibre main cable for micro-pipes or standard cable
- Micro-pipe strain relief via retaining rings
- Floor unit made of foam plastic for bushing and sealing the micro-pipes and main cables
- C-clamp rails with U-clamps for strain relief of the pipe bundles in the pedestal
- Suitable as passive distribution cabinet for GPON and Point to Point (PtP) technology
- Used by Deutsche Telekom for GPON
- As an option, the optical fibre network distributor can be integrated into the Langmatz optical intrusion detection system

Technical data | Optical fibre network distributor

- Housing and pedestal made from polycarbonate
- Housing and pedestal painted in RAL 7038
- Pedestal with set predetermined breaking point technology
- Protection class IP54
- Door with turning lever, prepared for one or two semi-profile cylinders
- Optical fibre installation kit made of stainless steel
- Optical fibre cassette capacity for housing size (WxHxD) 594 x 998 x 310
 - 96 individual fibre cassettes
 - 48 multi-fibre cassettes
 - or a mixture of both possible
- Entry port for optical fibre main cables or pipes up to Ø 26 mm
- Micropipe holders in the insertion area
 - Ø 5 mm micro-pipe with tensile strength of min. 50 N
 - Ø 7 mm micro-pipe with tensile strength of min. 70 N
 - Ø 10 mm micro-pipe with tensile strength of min. 100 N
 - Ø 12 mm micro-pipe with tensile strength of min. 120 N

E&MMS cassette system

The cassettes for single- and multiple-fibre management are part of a modular system that is used in a variety of assemblies. They are contained in a module rack that has generally already been mounted in the relevant housing. The housing can be configured with cassettes on site as necessary. Cassettes are easy to install and remove without requiring any specialist tools. All cassettes have a slot for up to 12 fusion splices with crimp splice protectors or heat shrink splice protectors. The cassettes are designed to enable an organised management of excess fibres, the routing of fibres in line with minimum bend radii, and a change of routing direction within the cassette.

Technical data | E&MMS cassette system

- Dimensions (WxHxD) 135 x 117 x 5 or 10 mm
- Minimum bend radius 30 mm
- Colour RAL 7035
- Material: Thermoplastic

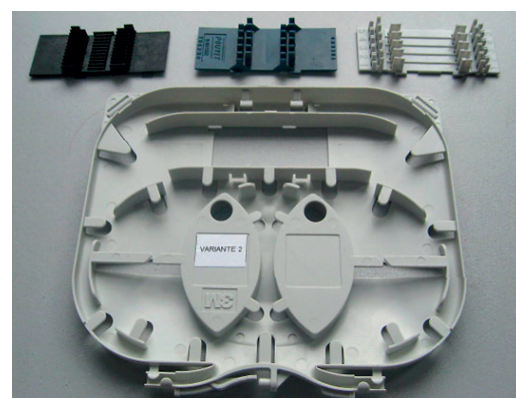
Variants | E&MMS cassette system



Cassette 5 mm

For multiple fibre management for storing up to 12 splices.

Occupies one slot in the module rack.



Cassette 10 mm

For multiple fibre management for storing up to 12 splices; only every second slot in the module rack is occupied when this cassette is used.

Occupies two slots in the module rack.

The cassette can also accommodate an optical splitter.

Versions | Optical fibre network distributor

At present, there are three versions of the optical fibre network distributor (outdoor, indoor and installation kit) that can be used for tendering purposes. E&MMS cassettes are available separately to enable the optical fibre network distributor to be configured as required.

Passive adapters are available for the use of the optical fibre network distributor in a GPON configuration.

Outdoor

- Housing made of polycarbonate
- Housing body painted in RAL 7038
- Protection class IP54
- Door with turning lever, prepared for 1 or 2 semi profile cylinders (one receiver with dummy insert ex works)
- Optical fibre installation kit for optical fibre cassettes and micro-pipe holding/sorting and strain relief
- Floor unit for bushing and sealing the micro-pipes, split base plate and foam block (pre-assembled for the insertion of micro-pipes), clamp for foam block
- Polycarbonate pedestal with predetermined set breaking points, painted in RAL 7038, front cover without ventilation, C-clamp rail with U-clamps, cable bending protection
- Optical fibre installation kit, prepared to accommodate E&MMS splice cassettes, lockable protective hood for splice section

Installation kit

- Empty housing for CO-ODF (polycarbonate)
 - Housing body painted in RAL 7038
 - Protection class IP54
 - Door with turning lever, prepared for 1 or 2 semi profile cylinders (one receiver with dummy insert ex-works)
 - Auxiliary assembly frame (replaced with the Telekom BK approved frame when the installation kit is installed)
- Base plate for CO-ODF, complete
 - Floor unit for bushing and sealing the micro-pipe, split base plate, foam block (pre-assembled for the insertion of the micro-pipe), clamping device for the foam block
- Pedestal, complete
 - Polycarbonate pedestal with predetermined breaking points, painted in RAL 7038, front cover without ventilation, DIN rail with U-clamps, cable bending protection
- CO-ODF installation kit for housing, E&MMS
 - Optical fibre installation kit, prepared to accommodate E&MMS splice cassettes, lockable protective hood for splice section
 - Optical fibre installation kit for optical fibre cassettes and micro-pipe holding/sorting and strain relief

Indoor

- Telekom BK approved frame for the optical fibre installation kit for optical fibre cassettes
- Lateral guide plates for securing the Telekom BK approved frame
- Floor unit for bushing and sealing the micro-pipe, split base plate and foam block
- Compact polycarbonate pedestal with base plate for fastening to the floor, painted in RAL 7038, front cover without ventilation, C-clamp rail with U-clamps
- Optical fibre installation kit, prepared to accommodate E&MMS splice cassettes, lockable protective hood for splice section