



Fiber Distribution Hub

Outdoor Composite Cabinet, up to 144 Terminated Drops

Features

- Made of durable polycarbonate with a robust aluminium frame
- Meets all relevant industry standards from DIN and EN/IEC
- Versions for 24 to 144 customers
- Handles both 7/4mm and 10/6mm drop ducts
- Fulfil the Federal Funding Program of the German Federal Government
- Delivered complete and ready for installation
- Single-circuit splice cassette system
- Handles PLC splitters for PON applications

Application

FDH street cabinets are typically used to connect the customer drop network to the feeder and distribution network in FTTH applications. Hexatronic Stingray air-blown fibers or Hexatronic Raptor nano cables are installed between the customer home and the cabinet and then spliced to higher fiber count Hexatronic Viper micro cables or traditional duct cables.

The cabinets all have a high capacity for handling feeder and distribution duct systems and cables, including microduct dimensions from 12 up to 20mm.

For maximum network design flexibility and cost-effective deployment, all cabinets are delivered as standard with midspan capabilities for micro cables.

Design

All cabinets in the range feature a very robust polycarbonate cabinet with a supporting aluminium frame inside. The smallest cabinets in the range, for 24 and 48 customers, are supplied as one unit (cabinet+base) and a door that can be lifted off during installation. The larger cabinets, for 72, 96 and 144 customers, feature a separate cabinet and base and all have a swinging door.

Incoming duct assemblies are secured to a strain relief bar in the lower part of the cabinet. The individual microducts are then routed into the upper cabinet area through a high-quality EPDM foam moisture seal plate with pre-cut holes depending on drop duct system used.

The drop cables and micro cable loose tubes are easy to install in the cabinet and are routed to the splice cassette system, located directly on the back plane or on the hinged door, through a series of radius limiters and guides for maximum installation safety.

The splice system consists of a raceway and single-circuit splice cassettes that can handle up to 12 crimp splice protectors. There is space in the raceway to add splitter cassettes to hold PLC splitters for PON applications. One splitter cassette can hold one splitter with up to 1:32 (2:32) splitter ratio and up to two splices.

Product Information

The cabinets are made of glass fiber-reinforced polycarbonate. The inner frame is made of aluminium.

Technical Information

Product Color Light grey (RAL7038)

Ordering Information

All cabinets are delivered ready for installation of ducts and cables. The following is included in the delivery:

- Cabinet + Base (ordered separately where applicable)
- Strain relief bar for duct assemblies in the base
- Seal plate made of EPDM
- Duct organisers and clips
- Midspan storage unit for loose tubes
- Raceway system and 12 fiber single-circuit splice cassettes (crimp type holders).

The following must be ordered separately:

- Duct end caps
- Cable and fiber unit divisible seals
- Crimp splice protectors for splicing
- Splitter cassettes.

Technical Details

| Cabinet | Cabinet size (WxHxD) [mm] | Base size* (WxHxD) [mm] | Splice cassettes (12F) | Maximum splice capacity | Incoming ducts/cables | Customer microducts |
|---------------|---------------------------|-------------------------|------------------------|-------------------------|-----------------------|---------------------|
| 24 customers | 425x858x300 | N/A | 24 | 288 | 6x Ø10..20mm | 24 |
| 48 customers | 425x858x300 | N/A | 54 | 648 | 6x Ø10..20mm | 48 |
| 72 customers | 594x998x310 | 594x1060x284 | 96 | 1152 | 6x Ø10..20mm | 72 |
| 96 customers | 754x998x310 | 754x1060x284 | 120 | 1440 | 9x Ø10..20mm | 96 |
| 144 customers | 1131x998x310 | 1131x1060x284 | 204 | 2448 | 9x Ø10..20mm | 144 |

Configuration Chart

Articles 8

| Article name | Color | Layout | Dimensions [mm] | Weight [kg] |
|--|-------|----------------------|--|-------------|
| Equipment FDH7 and 10mm OD24 subscr NBD117102/24 | Grey | max. 648 Spleisse | W x H x D (mm) 425 x 858 x 300 6x Ø 12 - 20 mm + 1x Ø 12 - 14 mm Loop 24x Ø 7 / 10 mm max. 54x SC or 27x SE 24x SC 12 crimp ex works | 10 |

| Article name | Color | Layout | Dimensions [mm] | Weight [kg] |
|--|----------|-----------------------|--|-------------|
| Equipment FDH7 and 10mm OD48 subscr NBD117102/48 | RAL 7038 | max. 648 Spleisse | W × H × D (mm) 425 × 858 × 300 6x Ø 12 - 20 mm + 1x Ø 12 - 14 mm Loop 48x Ø 7 / 10 mm max. 54x SC or 27x SE 54x SC 12 crimp ex works | 10 |
| Equipment FDH7 and 10mm OD72 subscr NBD117102/72 | RAL 7038 | max. 1728 Spleisse | W × H × D (mm) 594 × 998 × 310 8x Ø 12 - 20 mm Loop 72x Ø 7 / 10 mm 144x SC / 72x SE, 96x SC 12 crimp ex works | 10 |
| Equipment FDH7mm OD96 subscr NBD117102/96 | Grey | ma. 1872 Spleisse | 754 × 998 × 310 | 10 |
| Equipment FDH7mm OD 144 subscr NBD117102/144 | Grey | max. 2448 Spleisse | 1131 × 998 × 310 | 10 |
| Base for FCC6-72 HSXA136133-1 | RAL 7038 | – | 594 × 998 × 310 | 10 |
| Equipment FDH7mm OD72 subscr HSXA136133-2 | RAL 7038 | – | 594 × 998 × 310 | 10 |
| Base for FCC11-144 HSXA136133-3 | RAL 7038 | – | 594 × 998 × 310 | 10 |