Rosenberger

Data Network Optical Distribution Frame DN-ODF and DN-ODF-C

PRODUCT INFORMATION

Data Network Optical Distribution Frame DN-ODF and DN-ODF-C

Space is the most valuable scarce resource in the data centre and standard cabling racks take up a lot of space.

Over the last 100 years of telecommunications history, the basic principles of the main distribution frame have proven themselves and evolved: The logical next evolutionary step in central cabling solutions for data centres, campuses and buildings are the space-saving Data Network Optical Distribution Frame (DN-ODF) and the Data Network Optical Distribution Frame Closable (DN-ODF-C).

DN-ODF adopts the concept of fibre optic main distribution frames (ODFs). These are regularly used in telecommunications because of their ability to accommodate countless cables, both in the central office, colocation and edge.

Properties:

- Single frame or double frame (DN-ODF only)
- Single frame DN-ODF-C with lockable doors
- Standard ETSI width of 1200 mm
- Flexible mountable cable supports
- Perfectly designed for the use of PreCONNECT® trunk cables
- Can be arranged as back-to-back or side-by-side setups
- Saves space and energy when positioned out of cold aisle containments

Applications:

- Distribution system for telecoms and data centres as:
  - a high-density patch location for fibre optic cables in data centres
  - transfer point for network transitions (Meet-Me-Room)
  - a main distribution cabinet, intermediate distribution cabinet or zone distribution cabinet according to EN 50173-3

All the advantages at a glance:

- Space-saving due to up to three times the port density per data centre area compared to cabling cabinets
- Efficient operability despite high density
- Use of otherwise unsuitable areas
- Safe even for minimally invasive work without influencing neighbouring connections
- Reliable, market-proven concept

Areas of application:

DN-ODF and DN-ODF-C, together with the LARO patch panel, serve as

- a high-density patch location for fibre optic cables in data centres and as a transfer point for network transitions (Meet-Me-Room), e.g. in colocation data centres.
- a main distribution enclosure, intermediate distribution enclosure or zone distribution enclosure in accordance with EN50173-3 with extremely high packing density in
  data centres and IT rooms.

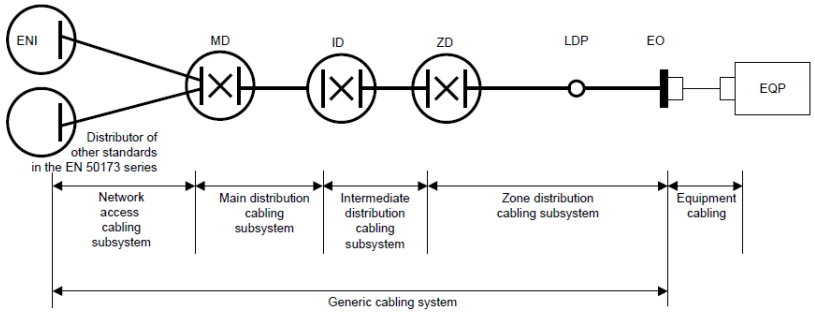


Figure 5 – Cabling subsystem in data center according EN 50173-5

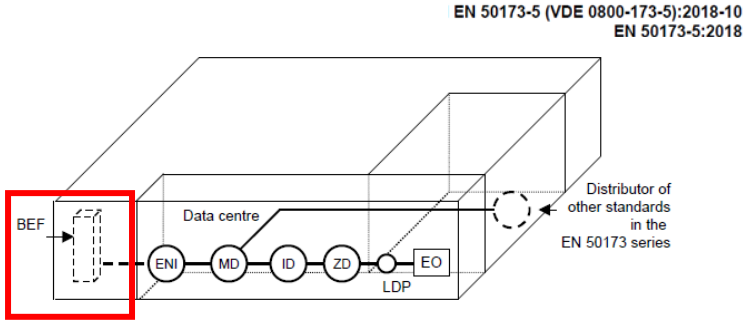


Figure 5 - Example of accommodation of functional elements

Rosenberger DN-ODF - Data Network Optical Distribution Frame
Rosenberger DN-ODF-C - Data Network Optical Distribution Frame - closable

The problem:

- Space is the most valuable scarce resource in the data centre
- Wiring racks cost space

The challenge:

- Use areas that are otherwise unusable.
- Cable distributions in the highest possible density with simultaneous efficient operability

The solution:

- Optical distribution frames adapted for the data centre instead of cabling racks
- Equipped with densely packed and flexible LARO patch panels (LAN Access Rackmount Organiser)
- Optional roof cabling

Technical data and scope of delivery:

DN-ODF single frame:
Dimensions: 2200x1200x320
Weight 58kg
Aluminium frame with steel mounting plates
Adjustable feet
Bracket for floor and/or wall anchoring
19 pieces cable supports
Variable earth connection
For up to 14 LARO patch panels (subrack)
With up to 2016 LCD ports per frame
Optional splice subrack
Optional mounting adapters for trunk cables
Permissible temperature range

- Storage: -25°C to +70°C
- Installation: -5°C to +50°C

DN-ODF-C
Dimensions: 2183,5x1200x343
Weight 122kg
Steel
4 pieces cable supports
Variable earth connection
For up to 16 LARO patch panels (subrack)
With up to 2304 LCD ports per frame
Optional splice subrack
Optional mounting adapters for trunk cables
Optional door locking systems
Permissible temperature range

- Storage: -25°C to +70°C
- Installation: -5°C to +50°C

DN-ODF double frame:
Dimensions: 2200x1200x600
Weight 63kg
Aluminium frame with steel mounting plates
Adjustable feet
Angle for floor anchorage
38 x cable supports
Variable earth connection
For up to 28 LARO patch panels (subracks)
With up to 4032 LCD ports per frame
Optional splice subrack
Optional mounting adapters for trunk cables
Permissible temperature range

- Storage: -25°C to +70°C
- Installation: -5°C to +50°C

Two DN-ODF-C can be arranged back-to-back to represent a double-frame function
DN-ODF and DN-.ODF-C must be fixed to the floor, ceiling or wall.

Modules and accessories:

LAN Access Rackmounted Organiser (LARO)

All the advantages at a glance:

Space-saving:

- Enables solutions with up to three times the port density per data centre area compared to standard panels in standard cabling cabinets

Efficient and flexible in use:

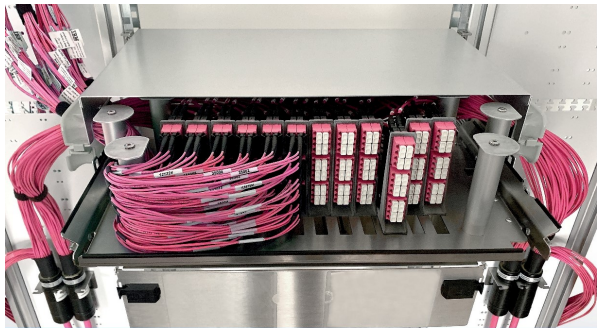
- Full operation and assembly from the front. Easy access to all connections and cables
- Feeding the cables from the side
- Integrated cable management

Secure:

- Modular LARO patch panel allows minimally invasive work without affecting neighbouring connections

Technical data:

Up to 144 LCD ports per patch panel
Empty housing made of steel and aluminium
Basic dimensions 530x122x280 mm (WxHxD)
Mounting dimension according to ETSI
Rear mounting level to allow interference-free access to cables
Lateral cable outlet
The modular design concept provides better accessibility to cables and connectors
Individual, forward-sliding and removable modules with up to 12 LCD ports
With telescopic extension to ensure complete operation from the front
Equipped with front door and pull-out guard



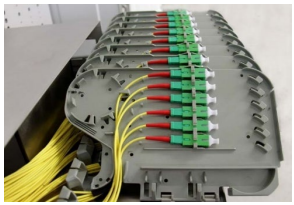
In the ODF LARO, PreCONNECT® STANDARD trunks with extended stepped "E-whip length" must be used as described in the PreCONNECT® STANDARD product information.

LC-COMPACT Push-Pull-Boot (LCC-PPB) patch cables with a cable diameter of 2.0 mm or thinner must be used with this enclosure system.

Patch cord order numbers
Duplex patch cable Cable type Round I-V(ZN)H

Cable diameter	Connector	Length	OM4	SM PC 0°	SM APC 8°
1.6 mm	LC-COMPACT PPB " LC-COMPACT PPB	variable	087A6949OM4	087A6948G657A1	087A6950G657A1
2.0 mm	LC-COMPACT PPB " LC-COMPACT PPB	variable	087A6737OM4	087A6738G657A1	087A6747G657A1

Patch Cassette Panel (PCP) and Splice Cassette Module (SCM)

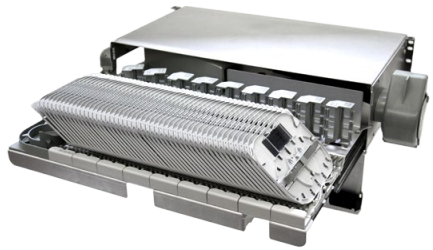


All the advantages at a glance:

- Patch or splice connection cleanly separated
- Efficient and flexible in use
  - Full operation and assembly from the front
  - Feeding the cables from the side
  - Integrated fibre management
- Secure

Technical data:

Up to 96 channels per module
Empty housing made of steel and aluminium
Basic dimensions 530x122x280 mm (WxHxD)
Mounting dimension according to ETSI
Rear mounting level to allow interference-free access to cables
Lateral cable outlet
With telescopic extension to ensure complete operation from the front
Equipped with front door and pull-out protection



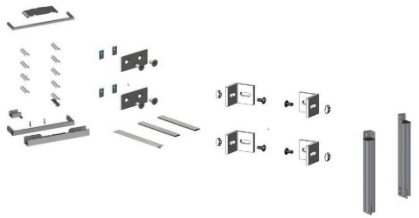
Accessories on request:

Cable tray, splice table
Yellow fibre optic cable duct

Order numbers

240A0001	ODF single 14
240A0002	ODF double 14
240A0003	ODF-C closed 16

240A0101	Expansion set "single to double" for ODF
240A0102	Side by side connector kit for ODF
240A0103	Wall mount kit for ODF
240A0104	Cable duct connector for ODF
240A0105	Overlength holder, half-round for ODF-C



240A1000	Laro Panel LCQ for SM
240A1001	Laro Panel LCQ for SM APC
240A1002OM3	Laro Panel LCQ for OM3
240A1002OM4	Laro Panel LCQ for OM4
240A1010	Patch cassettes panel LCD for SM
240A1011	Patch cassettes panel LCD for SM APC
240A1012OM3	Patch cassettes panel LCD for OM3
240A1002OM4	Patch cassettes panel LCD for OM4

240A1020	Splice cassettes module

About Rosenberger OSI:

Since 1991, Rosenberger Optical Solutions & Infrastructure (Rosenberger OSI) has been a recognized expert for fiber-based connectivity, cabling solutions and infrastructure services in the areas of data centers, local area networks, mobile networks and industrial applications. As an integrated solution provider, we have high expertise in the development and operational excellence in the production of system solutions for communication networks. Our comprehensive services enable the secure and efficient operation of digital infrastructures. This combination, combined with our strong customer focus, makes us unique and a strong partner in the global market.

Rosenberger OSI has been part of the globally operating Rosenberger Group since 1998. The Rosenberger Group is a leading global provider of high-frequency, high-voltage and fiber optic connectivity solutions with headquarters in Germany. For further information, please visit: www.rosenberger.com/osi

Rosenberger

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