

HIGH DENSITY FLOOR STANDING FIBRE OPTIC DISTRIBUTION FRAME



The Norden High Density Floor Standing Fibre Optic Distribution Frame is a durable and versatile solution designed for efficient fibre management in high-demand environments. Made from high-quality steel and deformed aluminium alloy, treated with galvanizing, oxidation, and electrostatic plastic spraying provides anti-corrosion protection and structural integrity. With flexible cabling access, an expandable frame concept, and integrated cable management, it supports both loose bundle and ribbon-type cables. Its future-proof modular design, high termination capacity, and adaptability for various termination, splice, and storage applications make it ideal for modern data centers and telecommunication setups.

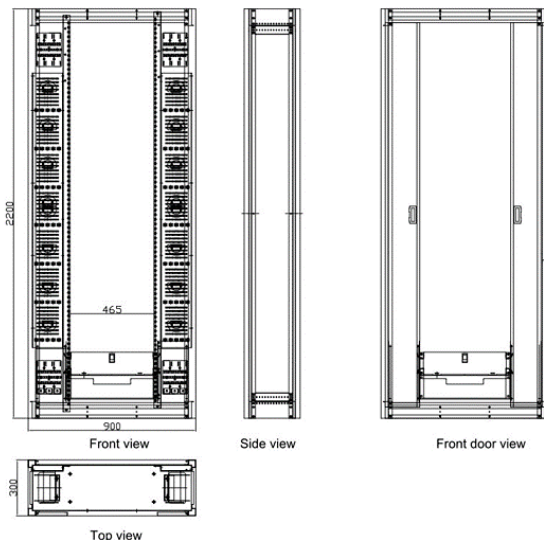


FEATURES

- Designed to be used together with high-density type patch panels.
- The frame includes centrally positioned 19" mounting rails, ideal for installing Optical Distribution Frames (ODFs).
- Provides ample space for fibre distribution and storage, ensuring easy installation and operation.
- Designed for full front-side access, allowing convenient maintenance.
- Maintains a controlled minimum bend radius of 30mm.
- Removable and adjustable cable guides on the right side ensure a minimum 30mm bend radius for patch cords from any ODF.
- Dual lateral canals on both sides, each with independent doors, ensure efficient fiber optic cable management and protection.
- Side-hinged doors offer added security to the patch cord distribution area.
- The frame's top or bottom-mounted optical cable inlet system ensures optimal incoming cable fixation.
- Cables can be routed into the frame from either the top or bottom, depending on specific installation requirements.
- Suitable for both loose bundle and ribbon-type cables.
- Equipped with a secure cable fixture cover and integrated grounding system for enhanced earth protection.
- Available in standard colors such as white, black, and grey, with other color options available upon request.

APPLICATION

- Tele Communication
- Data Center
- Building automation
- Center office or far off extremity of optic access networks
- Intelligent buildings remote module offices



HIGH DENSITY FLOOR STANDING FIBRE OPTIC DISTRIBUTION FRAME



DISTRIBUTION FRAME DESIGN & MATERIALS

Material	Steel and deformed aluminium alloy treated with galvanizing, oxidation and electrostatic plastic spraying.
IP Rating	IP 20
Fire Resistant Rating of Plastic Elements	UL-94
Maximum Port Capacity	SC : 864 LC : 1728
Maximum Supported Sub Racks	9 [4U]
Cable Entry	Top & Bottom
Temperature	-5°C to + 60°C
Humidity	90% at 30°C
Air Pressure	70kPa – 106kPa

OPTIONAL ACCESSORIES

- Hardware and fasteners, including the required number of fibres, are available upon request.
- Buffer protection elements tailored to the number of cables required can be provided upon request.
- Accessories such as screws, nuts, and fasteners for raised or concrete floors are available upon request.

ODF SUB-RACK

The Norden ODF Rack Mount Patch Panel is designed for seamless integration with the most advanced splice and patch systems, offering superior cable management for high-density carrier and transmission applications. This durable steel unit is ideal for terminating the provider's side of an optical fibre cable, providing ample space for splicing external optical fibres to pigtails. It serves as the mechanical foundation for fiber management, enabling efficient cable splicing, patch cord connections, and patching within a rack setup. Each tray in the ODF sub-rack features dedicated areas for both splicing and patching, ensuring organized and streamlined operations.



FEATURES

ODF Sub-Rack

- 19" ODF rack-mount case, complete with all necessary accessories for quick and simple installation.
- 19" rack ears can be mounted in the front or rear of the case to meet various customer requirements.
- Can hold removable trays with 12 SC or LC duplex adapters, designed for easy upgrades and system expansion
- Supports multiple combinations of patching and splicing for versatile fibre management.
- External cables can be accessed through left or right lateral entry points with full front access for user convenience.
- ODF can be supplied with or without adapters, pigtails, and heat shrink tubes (40mm or 50mm) based on user requirements.
- Fibre management accessories maintain a minimum bending radius of 30mm, ensuring cable protection.
- A push-button or key-lock front door for easy access to trays and components.
- Designed to manage patch cords up to 0.9mm in diameter, enabling efficient cable organization.
- Allows cable entry from both the left and right sides for flexible installation.
- Pigtails available with customizable connector types, cable materials ,lengths, and polishing options (UPC, APC).
- Fully compliant with ITU-T G.651, G.652, G.655, and ISO 9001.

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Termination Tray

- Lightweight plastic structure for efficient space utilization in patch panels
- 12-port splice trays are removable and stackable, facilitating easy patch cord and pigtail management.
- Ensures fibres maintain the required bending radius for reliable performance.
- Moveable adapter holders allows for easy handling and flexibility during installation.
- Supports optical fusion, storage, and distribution in a single tray.
- Features separate areas for splicing and patching, optimizing fibre organization.
- Designed to accommodate FC, SC, and LC duplex adapters
- Meets RoHS compliance and flame retardant safety standards.

ODF SUB-RACK & TERMINATION TRAY DESIGN

ODF Sub-Rack :					
ODF Material	Steel covered by non-flammable electrostatic paint				
Size	Up to 4U (Each U size contain 2 termination trays)				
Dimension & Capacity	Height	Depth	Width	SC Simplex	LC Duplex
	1U	280	19"/21"	24	48
	2U	280	19"/21"	48	96
	3U	280	19"/21"	72	144
	4U	280	19"/21"	96	192
Termination Tray :					
Tray Material	ABS				
Adaptor Type	SC Simplex , LC Duplex				
Capacity	SC : 12F LC : 24F				
Cable Entry	Any of 4 directions				
Dimensions (H x W xD)	25 x 390 x 190 mm				
Temperature	-5°C to + 60°C				
Humidity	90% at 30°C				
Air Pressure	70kPa – 106kPa				

ORDERING INFORMATION

DISTRIBUTION FRAME

Part Number	Description	Dimension(mm)
NC29-HDF1X	High Density Floor Standing Fibre Optic Distribution Frame	2200(H) x900(W)x300(D)

ODF- SUB-RACK

Part Number	Description
Patching	
NC29-2UL20M4PX	ODF-Sub-Rack 2U -Loaded with MM OM4 LC/UPC Adaptors & Termination Tray's
NC29-3UL20M4PX	ODF-Sub-Rack 3U -Loaded with MM OM4 LC/UPC Adaptors & Termination Tray's
NC29-4UL20M4PX	ODF-Sub-Rack 4U -Loaded with MM OM4 LC/UPC Adaptors & Termination Tray's
Splice & Patching:	
NC29-2UL27A1LX	ODF-Sub-Rack 2U- Loaded with SM LC/UPC Adaptors, SM G657.A1 Pigtails & Termination Tray's
NC29-3UL27A1LX	ODF-Sub-Rack 3U- Loaded with SM LC/UPC Adaptors, SM G657.A1 Pigtails & Termination Tray's
NC29-4UL27A1LX	ODF-Sub-Rack 4U- Loaded with SM LC/UPC Adaptors, SM G657.A1 Pigtails & Termination Tray's
NC29-3UL20M4LX	ODF-Sub-Rack 3U- Loaded with MM OM4 LC/UPC Adaptors, Pigtails & Termination Tray's
NC29-4UL20M4LX	ODF-Sub-Rack 4U- Loaded with MM OM4 LC/UPC Adaptors, Pigtails & Termination Tray's

X : R1 - RAL 9005 Sand Texture , R2 - RAL 9005 Wrinkle Texture , R3 - RAL 7035 Grey

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