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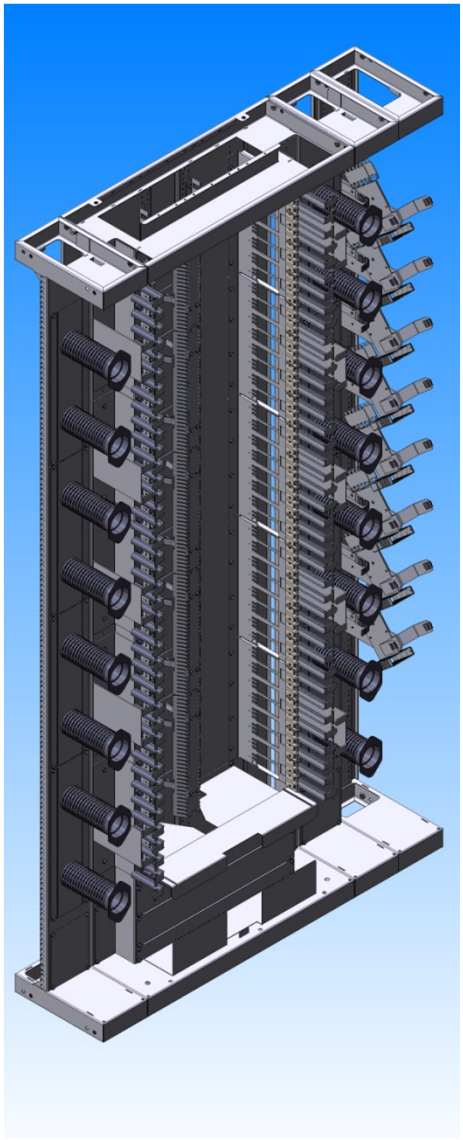
eFOS – Central Office System

SKM SKYLINE

Datenblatt



Solution highlights:



eFOS® is an optical fibre distribution/patch system for Passive Optical Networks. Main application of the system is fiber termination in Central Offices of FTTX networks. eFOS® combines the advantages of the Central Office systems available on the market. The system characteristics are:

- Maximum fiber density with double-rowed fiber modules – 960/1920/3840 fiber terminations for standard/SFF/URM*1) adapter systems per **standard rack** (700-1300mm width, **2200mm** height, 300mm depth)
- Optional two-sided overlength patchcord storage for comfortable patching
- Optional rack extensions for gasblocker integration
- 3 different rack heights: 32HU/1800mm, 40HU/2200mm, 48HU/2600mm
- 6 different rack widths: 450/600/750mm (with single-row fiber modules), 700/ 1000/1300mm (with double-row fiber modules)
- Open and closed rack versions for all rack types

- The combined splice/patch fiber modules are 90 degrees rotatable and removable and are available in 2 sizes: 0,5 HU or 1 HU for 12/24/48 standard/SFF/URM adapters per module (see technical data on page 3)
- Metal frontplates for all adapter types
- 45 degrees, snap-in adapter holders for all conventional adapter types: SCsx, LCdx, E2000sx, E2000dx, LX.5, FC, ST and URM*1)
- Support for different types of fiber protection pipes
- Using 5,0mm speedpipe blow-in systems, a complete pre-installation to the different levels of module carrier units is possible. This allows a fast, cost efficient installation of fiber cables to the Fiber modules for new installations as well as for extensions even for racks in operation.

Rack:

The eFOS® rack combines maximum fiber density with efficient cable management and maintainability. Open and closed rack versions are available.

The eFOS® rack provides:

- Solutions for cross-connect and interconnect configurations
- Modular subunits for highest flexibility
- Backside vertical cable guidance for incoming cables
- Bending radius protection of 30mm for fibers and patchcords
- Intelligent patchcord management:
- Vertical patchcord cable guidance on left and right side
- Optional Mandrels on left and right side of the rack provide sufficient space for patchcord overlength storage
- Integrated patchcord management to adjacent racks avoids the usage of external ducts

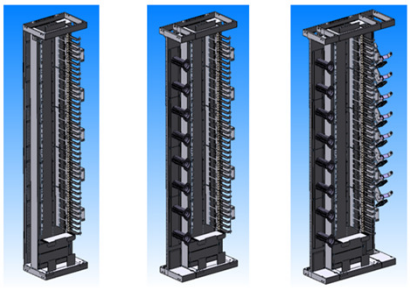
The rack is available in 3 different heights and 6 different widths, please see details of each type in the table “technical data” on page 3.

eFOS – Central Office System

SKM SKYLINE

Rack variants – technical data:

Datenblatt



SINGLE ROW RACKS



DOUBLE ROW RACKS

	Single row fiber module racks without mandrels			Single row fiber module racks with mandrels		
	eFOS 450/32HU	**eFOS 450/40HU**	**eFOS 450/48HU**	**eFOS 600/32HU**	**eFOS 600/40HU**	**eFOS 600/48HU**
Rack height	1800 mm	**2200 mm**	2600 mm	1800 mm	**2200 mm**	2600 mm
Rack width	450 mm	450 mm	450 mm	600 mm	600 mm	600 mm
Rack weight (without adapter, pigtails, incoming cables)	Open rack: 50 kg Closed rack: 77 kg	Open rack: 62 kg Closed rack: 92 kg	Open rack: 74 kg Closed rack: 106 kg	Open rack: 60 kg Closed rack: 88 kg	Open rack: 72 kg Closed rack: 105 kg	Open rack: 84 kg Closed rack: 122 kg
Material	Powder coated steel metal					
Color	RAL 7035, light grey					
IP Protection	IP30 (closed rack)					
Flammability classification	UL 94V-0					
Max. amount of Fiber modules	32 Full-size OR 64 Half-size	40 Full-size OR 80 Half-size	48 Full-size OR 96 Half-size	32 Full-size OR 64 Half-size	40 Full-size OR 80 Half-size	48 Full-size OR 96 Half-size
Max. amount of Fiber terminations / adapter system	384 SC/E2000 768 LC/LX.5 1536 URM*	480 SC/E2000 960 LC/LX.5 1920 URM*	576 SC/E2000 1152 LC/LX.5 2304 URM*	384 SC/E2000 768 LC/LX.5 1536 URM*	480 SC/E2000 960 LC/LX.5 1920 URM*	576 SC/E2000 1152 LC/LX.5 2304 URM*

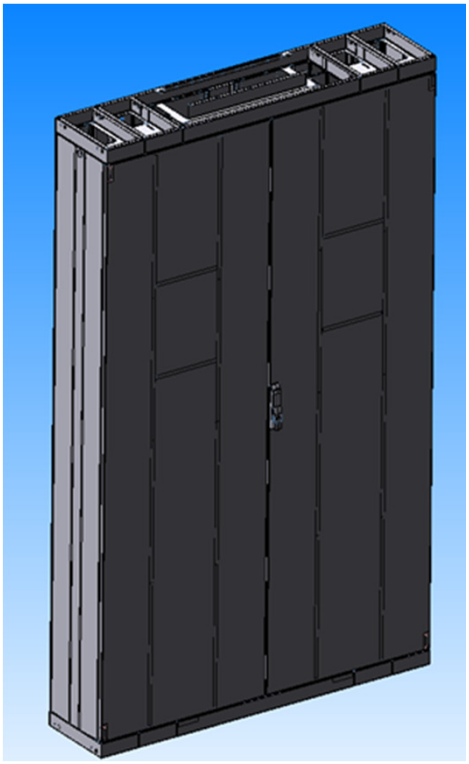
	Single row fiber module racks with mandrels and gasblocker integration			Double row fiber module racks without mandrels		
	eFOS 750/32HU	**eFOS 750/40HU**	**eFOS 750/48HU**	**eFOS 700/32HU**	**eFOS 700/40HU**	**eFOS 700/48HU**
Rack height	1800 mm	**2200 mm**	2600 mm	1800 mm	**2200 mm**	2600 mm
Rack width	750 mm	750 mm	750 mm	700 mm	700 mm	700 mm
Rack weight (without adapter, pigtails, incoming cables)	Open rack: 69 kg Closed rack: 99 kg	Open rack: 83 kg Closed rack: 116 kg	Open rack: 98 kg Closed rack: 132kg	Open rack: 83 kg Closed rack: 112 kg	Open rack: 98 kg Closed rack: 133 kg	Open rack: 115 kg Closed rack: 162 kg
Material	Powder coated steel metal					
Color	RAL 7035, light grey					
IP Protection	IP30 (closed rack)					
Flammability classification	UL 94V-0					
Max. amount of Fiber modules	32 Full-size OR 64 Half-size	40 Full-size OR 80 Half-size	48 Full-size OR 96 Half-size	64 Full-size OR 128 Half-size	80 Full-size OR 160 Half-size	96 Full-size OR 192 Half-size
Max. amount of Fiber terminations / adapter system	384 SC/E2000 768 LC/LX.5 1536 URM*	480 SC/E2000 960 LC/LX.5 1920 URM*	576 SC/E2000 1152 LC/LX.5 2304 URM*	768 SC/E2000 1536 LC/LX.5 3072 URM*	960 SC/E2000 1920 LC/LX.5 3840 URM*	1152 SC/E2000 2304 LC/LX.5 4608 URM*

Rack variants – technical data:

	Double row fiber module racks with 2-sided mandrels			Double row fiber module racks with 2-sided mandrels and 2-sided gasblocker integration		
	eFOS 1000/32HU	**eFOS 1000/40HU**	**eFOS 1000/48HU**	**eFOS 1300/32HU**	**eFOS 1300/40HU**	**eFOS 1300/48HU**
Rack height	1800 mm	**2200 mm**	2600 mm	1800 mm	**2200 mm**	2600 mm
Rack width	1000 mm	1000 mm	1000 mm	1300 mm	1300 mm	1300 mm
Rack weight (without adapter, pigtails, incoming cables)	Open rack: 98 kg Closed rack: 142 kg	Open rack: 118 kg Closed rack: 170 kg	Open rack: 138 kg Closed rack: 197 kg	Open rack: 123 kg Closed rack: 171 kg	Open rack: 148 kg Closed rack: 205 kg	Open rack: 174 kg Closed rack: 233 kg
Material	Powder coated steel metal					
Color	RAL 7035, light grey					
IP Protection	IP30 (closed rack)					
Flammability classification	UL 94V-0					
Max. amount of Fiber modules	64 Full-size OR 128 Half-size	80 Full-size OR 160 Half-size	96 Full-size OR 192 Half-size	64 Full-size OR 128 Half-size	80 Full-size OR 160 Half-size	96 Full-size OR 192 Half-size
Max. amount of Fiber terminations / adapter system	768 SC/E2000 1536 LC/LX.5 3072 URM*	960 SC/E2000 1920 LC/LX.5 3840 URM*	1152 SC/E2000 2304 LC/LX.5 4608 URM*	768 SC/E2000 1536 LC/LX.5 3072 URM*	960 SC/E2000 1920 LC/LX.5 3840 URM*	1152 SC/E2000 2304 LC/LX.5 4608 URM*

*URM is a registered trademark of euromicron AG. For highest density applications with URM systems each Miniflex fiber protection will contain 24 fibers.

Rack – closed versions:



The closed rack version provides doors and side panels, which can easily Be mounted and removed on site.

Rack features:

- Robust steel metal construction, color: RAL 7035 light grey
- IP Protection: IP30
- Flammability classification: UL 94V-0
- Top or bottom cable entry possible
- Top cover provides openings for cables (with optional brushes)
- Doors have an opening angle of up to 180°
- Doors are equipped with integrated turning lever and lock
- Both doors accommodate A4 document-holder on inner side
- Easy expansion with side-by-side or back-to-back mounting of racks
- Single row fiber module racks have 1 front door
- Double row fiber module racks have 2 front doors
- Customized solutions regarding special dimensions, front doors, locks and colouring can be offered on request

Rack - scope of supply:

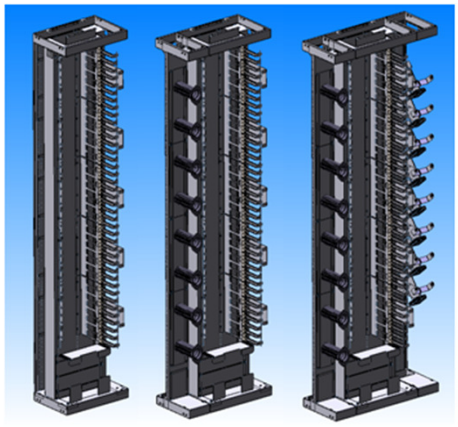
Standard scope of supply of an eFOS® delivery is a rack with
- assembled vertical cable guidance for incoming cables
- assembled patchcord guidance (on both sides for double row fiber modules racks)
- assembled bottom cable trough
- assembled 8HU carrier units

Optional supply (depending on rack variant):
- mandrel rack extension (on both sides for double row fiber modules racks)
- rack extension for gasblocker integration
- doors with turning lever/lock (2 doors for double row fiber modules rack)
- side panels (in case of a closed rack)

Fiber modules have to be ordered separately.

Required rack accessories, fiber protection type and length will be determined according to the eFOS® configuration process (see last page) and have to be ordered separately.

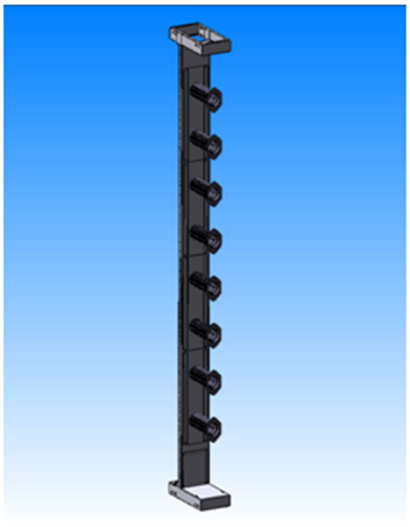
Rack variants:



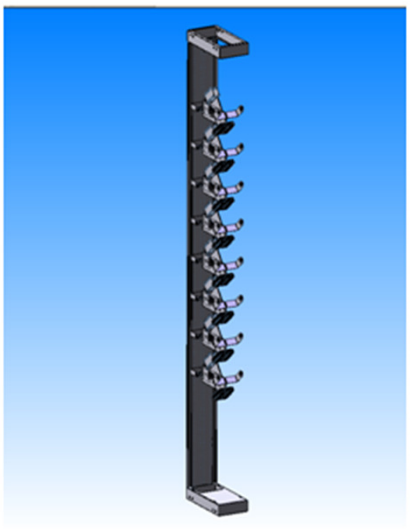
Single row fiber module racks

The rack includes:
- assembled vertical cable guidance for incoming cables
- assembled patchcord guidance
- assembled bottom cable trough
- assembled 8HU carrier units
- optional mandrels for storage of patchcord overlenght
- optional gasblocker rack extensions for gasblocker integration

Description- Basis Rack
Basis rack 32HU/1800mm height, open rack, 450mm width
Basis rack 40HU/2200mm height, open rack, 450mm width
Basis rack 48HU/2600mm height, open rack, 450mm width

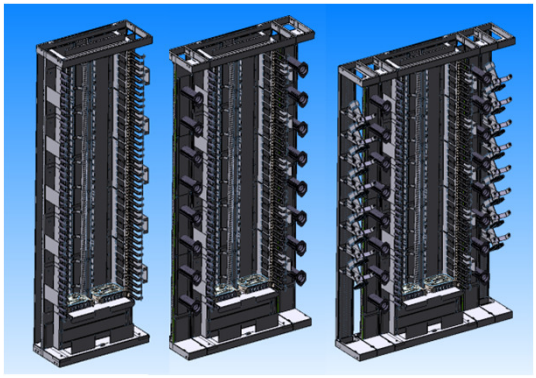


Description – Mandres rack extension
Mandrel rack extension 32HU/1800mm height, 150mm width, 6 Mandrels
Mandrel rack extension 40HU/2200mm height, 150mm width, 8 Mandrels
Mandrel rack extension 48HU/2600mm height, 150mm width, 10 Mandrels



Description – Gasblocker rack extension
Gasblocker rack extension 32HU/1800mm height, 150mm width, 6 gasblocker clamps (GBC)
Gasblocker rack extension 40HU/2200mm height, 150mm width, 8 gasblocker clamps (GBC)
Gasblocker rack extension 48HU/2600mm height, 150mm width, 10 gasblocker clamps (GBC)

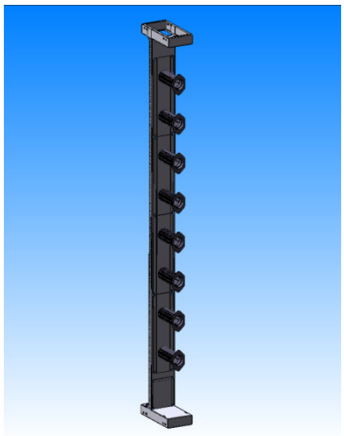
Double row fiber modules racks



The rack includes:
- assembled central vertical cable guidance for incoming cables
- assembled patchcord guidance on both sides
- assembled bottom cable trough
- assembled 8HU carrier units on both sides

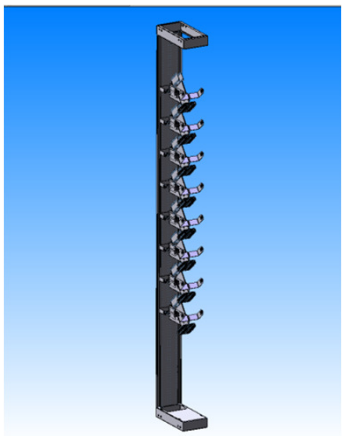
- optional mandrels for storage of patchcord overlenght
- optional gasblocker rack extensions for gasblocker integration

Description – Basis rack
Basis rack 32HU/1800mm height, open rack, 700mm width
Basis rack 40HU/2200mm height, open rack, 700 width
Basis rack 48HU/2600mm height, open rack, 700 mm width



Description – Mandrel rack extension*)
Mandrel rack extension 32HU/1800mm height, 150mm width, 6 Mandrels
Mandrel rack extension 40HU/2200mm height, 150mm width, 8 Mandrels
Mandrel rack extension 48HU/2600mm height, 150mm width, 10 Mandrels

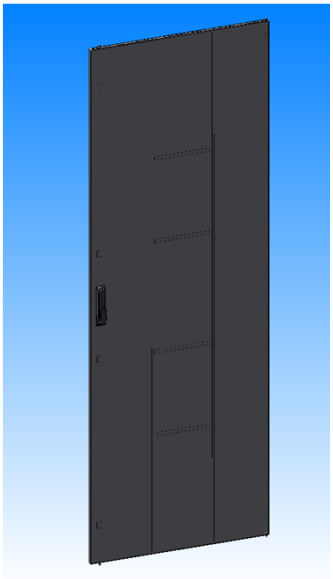
*) 1 or 2 Mandrel rack extensions can be ordered for double row fiber module racks



Description – Gasblocker rack extension*)
Gasblocker rack extension 32HU/1800mm height, 150mm width 6 gasblocker clamps (GBC)
Gasblocker rack extension 40HU/2200mm height, 150mm width 8 gasblocker clamps (GBC)
Gasblocker rack extension 48HU/2600mm height, 150mm width 10 gasblocker clamps

*) 1 or 2 Gasblocker rack extensions can be ordered for double row fiber module racks

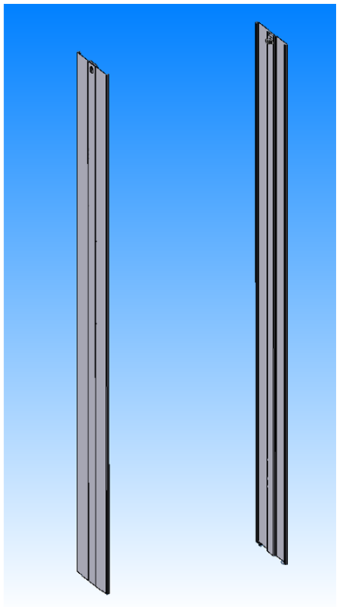
Rack components:



Rack doors

- Easy and fast installation and removing of doors
- Doors have an opening angle of up to 180°
- Doors are equipped with integrated turning lever and lock
- Both doors accommodate A4 document holder on inner side

Door type
Single door for eFOS 450/32HU/1800mm
Single door for eFOS 450/40HU/2200mm
Single door for eFOS 450/48HU/2600mm
Single door for eFOS 600/32HU/1800mm
Single door for eFOS 600/40HU/2200mm
Single door for eFOS 600/48HU/2600mm
Single door for eFOS 750/32HU/1800mm
Single door for eFOS 750/40HU/2200mm
Single door for eFOS 750/48HU/2600mm
Left door for eFOS 700/32HU/1800mm
Right door for eFOS 700/32HU/1800mm
Left door for eFOS 700/40HU/2200mm
Right door for eFOS 700/40HU/2200mm
Left door for eFOS 700/48HU/2600mm
Right door for eFOS 700/48HU/2600mm
Left door for eFOS 1000/32HU/1800mm
Right door for eFOS 1000/32HU/1800mm
Left door for eFOS 1000/40HU/2200mm
Right door for eFOS 1000/40HU/2200mm
Left door for eFOS 1000/48HU/2600mm
Right door for eFOS 1000/48HU/2600mm
Left door for eFOS 1300/32HU/1800mm
Right door for eFOS 1300/32HU/1800mm
Left door for eFOS 1300/40HU/2200mm
Right door for eFOS 1300/40HU/2200mm
Left door for eFOS 1300/48HU/2600mm
Right door for eFOS 1300/48HU/2600mm



Rack side- and back- panels

Easy and fast installation and removing of side panels for racks with Mandrel or gasblocker rack extension (e.g. to remove 1 side panel for side-by-side rack configurations). Side panels for basis racks and back panels are fixed with screws.

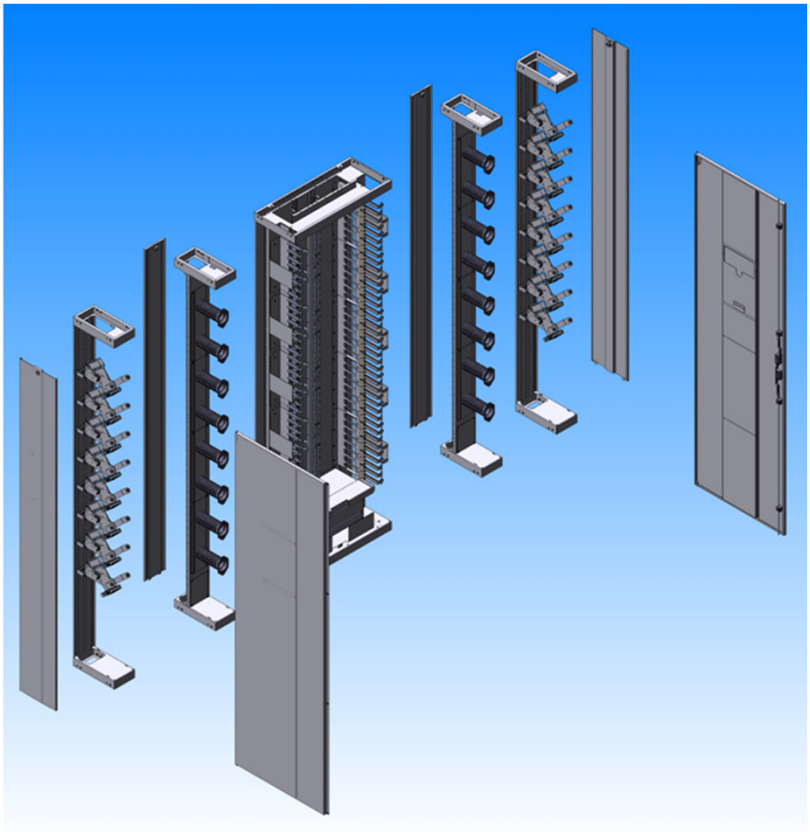
Side panel type
Side panel for Basis rack usable for right and left side, 32HU/1800mm
Side panel for Basis rack usable for right and left side, 40HU/2200mm
Side panel for Basis rack usable for right and left side, 48HU/2600mm
Side panel for Extension rack usable for right and left side, 32HU/1800mm
Side panel for Extension rack usable for right and left side, 40HU/2200mm
Side panel for Extension rack usable for right and left side, 48HU/2600mm
Back panel for Mandrel rack extension, 32HU/1800mm
Back panel for Mandrel rack extension, 40HU/2200mm
Back panel for Mandrel rack extension, 48HU/2600mm

Rack ordering code:

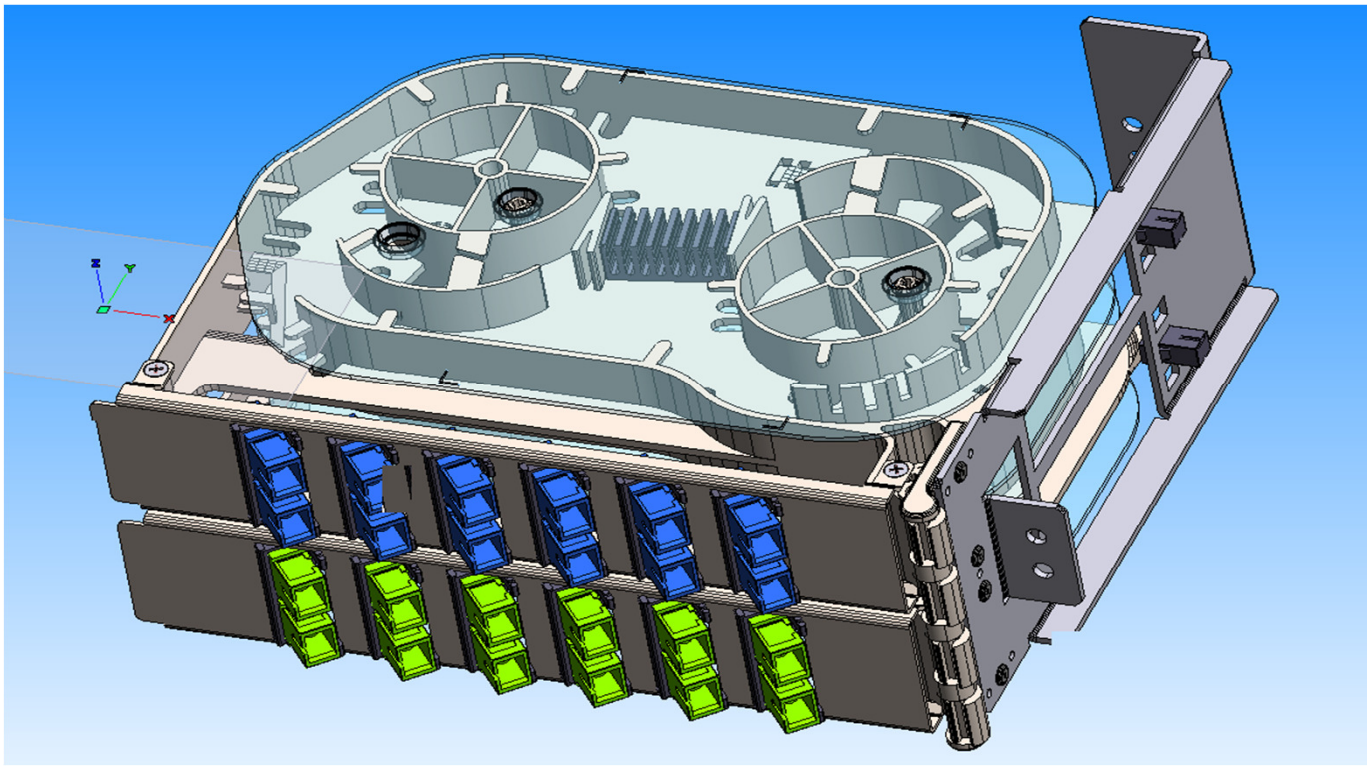
1	/	2	-	3	4	5	6	7	.	8	
Fiber Optic Distribution Rack		Rack width mm		Rack heigth in HU		Front door type	Back wall	Top cover		Special variant	
		450									Basic rack 450mm width with single row fiber modules
		600									Basic rack 600mm width with single row fiber modules
		750									Basic rack 750mm width with single row fiber modules
		700									Basic rack 700mm width with double row fiber modules
		1000									Basic rack 1000mm width with double row fiber modules
		1300									Basic rack 1300mm width with double row fiber modules
				32HU							Basic rack 1800mm height
				40HU							**Basic rack 2200mm height**
				48HU							Basic rack 2600mm height
					ML						Mandrels on left side (viewed from front side of rack)
					MR						Mandrels on right side (viewed from front side of rack)
					MLR						Mandrels on left and right side (viewed from front side of rack)
						GL					Gasblockers on left side (viewed from front side of rack)
						GR					Gasblockers on right side (viewed from front side of rack)
						GLR					Gasblockers on left and right side (viewed from front side of rack)
							FO				Open rack
							F2				with front door (1 for 600, 2 for 700/1000/1300 width, simple door knob)
							FL				with front door (1 for 600, 2 for 700/1000/1300 width, with integrated turning lever with lock)
								B0			without back wall
								B1			with back wall
									R0		without top cover
									R1		with top cover + brushes
										NN	2 digits for special variants

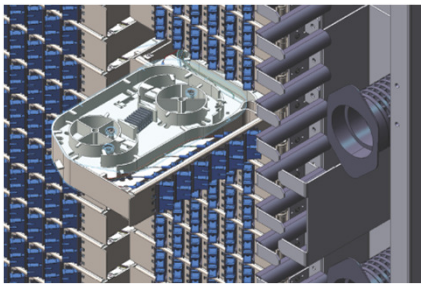
Accessories

MS1	Side-by-side;back-to-back fixing set
MSUB	Upper fixing set for bricks
MSUC	Upper fixing set for concrete
MSLC	Lower fixing set for concrete
MSLR	Lower fixing set for raised floor
PLI	Plinth with levelling feet (dimensions upon request)
DFF	Double floor frame (dimensions upon request)



Fiber Modules:

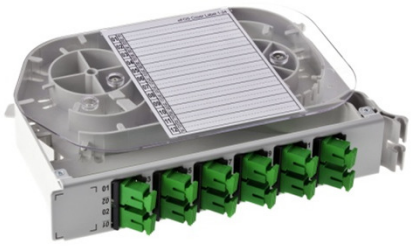




The multi-circuit management fiber modules of eFOS® are used as combined splice & patch modules. They offer highest fiber density together with best maintainability. Maximum flexibility is guaranteed with metal frontplates and 45° angled adapter holders for all conventional adapter types.

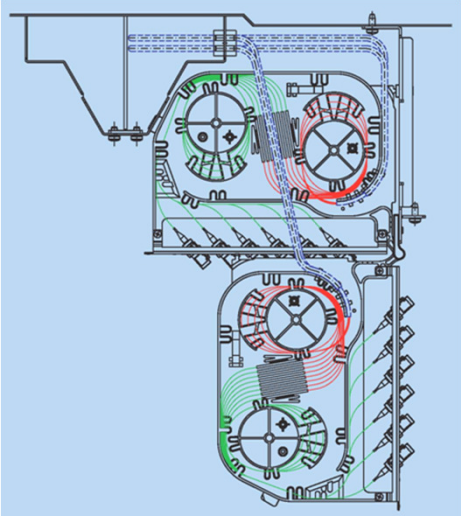
The fiber modules are available in 2 sizes:
- as half-size fiber modules with a height of 0,5 HU
- as full-size fiber modules with a height of 1 HU

Fiber modules can be equipped with different adapter types or with a closed frontplate without adapters for a splice-through version (in this case, a loop-back connection of fibers can be provided via splices)



	Fiber module capacity per adapter/connector system						
	SCsx	LCdx	E2000* 1)	LX.5	URM*2)	ST	FC
	Max. amount of adapters						
Half-size fiber module	6	6	6	6	-	6	6
Full-size fiber module	12/16	12	12/16	12	6	12/16	12/16
	Max. amount of pigtails						
Half-size fiber module	6	12	6	12	-	6	6
Full-size fiber module	12/16	24	12/16	24	24	12/16	12/16
	Max. amount of splices						
Half-size fiber module	6	12	6	12	-	6	6
Full-size fiber module	12/16	24	12/16	24	48	12/16	12/16

*1) E2000 can be implemented as simplex or as duplex version.
*2) URM is a registered trademark of euromicron Germany. URM is implemented in eFOS® as 8-port adapter system, each adapter connecting 8 fibers via 4 duplex pigtails/patchcords.



Material of the LSZH fiber modules is mixed Polycarbonat / ABS. The symmetrical design of the multi-circuit management fiber modules enables to use the same module for left- and right-side mounting. A uniform module color optimizes stockkeeping, while individual threefold color code labelling (on front, side and cover) offers fast and clear module and fiber identification.

Features:

- Fiber modules are 90 degrees rotatable and removable from the rack
- Incoming fibers and pigtails are stored in separate areas
- Easy to snap in adapter holders (except for URM system) enable comfortable cleaning of pigtail-connector ferrules by taking off the adapter holders. URM adapters are screwed to the angled URM-frontplate
- Same splice protection holder for both shrink and crimp splice protection
- Two-sided, easy to remove transparent covers per fiber module
- Bending radius protection for all fibers and pigtails
- Overlength storage of incoming cable subtube is possible on the bottom side of the module
- Integration of splitters up to 1x64 possible

Scope of delivery of a fiber module is fiber tray, frontplate, angled adapter holders, fiber protection pipe holder, shrink/crimp rubber splice holder, 2 transparent covers, inserted adapters and pigtails, threefold labelling, fixation element for protection tube as well as door latch. Shrink / crimp splice protection is not delivered with the fiber module, and has to be ordered separately.

Fiber modules – Ordering Information:

	Adapter type
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 SCsx **UPC**
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 SCsx UPC Swing shutter
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 E2000sx UPC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 LCdx UPC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 LX.5dx UPC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 ST UPC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 FC UPC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 SCsx UPC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 SCsx UPC Swing shutter
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 E2000sx UPC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 ST UPC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 FC UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 SCsx UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 SCsx UPC Swing shutter
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 E2000sx UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	6 E2000dx UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 LCdx UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 LX.5dx UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	6 URM 8-port UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 ST UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 FC UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 SCsx UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 SCsx UPC Swing shutter
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 E2000sx UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	8 E2000dx UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 ST UPC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 FC UPC

"x" has to be replaced with digit "3" for LEFT Fiber tray
"x" has to be replaced with digit "4" for RIGHT Fiber tray

Fiber modules – Ordering Information:

	Adapter type
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 SCsx **APC**
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 SCsx APC Swing shutter
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 E2000sx APC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 LCdx APC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 LX.5dx APC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 FC APC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 SCsx APC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 SCsx APC Swing shutter
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 E2000sx APC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 FC APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 SCsx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 SCsx APC Swing shutter
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 E2000sx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	6 E2000dx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 LCdx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 LX.5dx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	6 URM 8-port APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 FC APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 SCsx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 SCsx APC Swing shutter
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 E2000sx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	8 E2000dx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 FC APC

“x” has to be replaced with digit “3” for LEFT Fiber tray
“x” has to be replaced with digit “4” for RIGHT Fiber tray

Remark: full-size Fiber modules support 2 Fiber protection tubes / half-size Fiber modules support 1 Fiber protection tube

Fiber modules – Ordering Information:

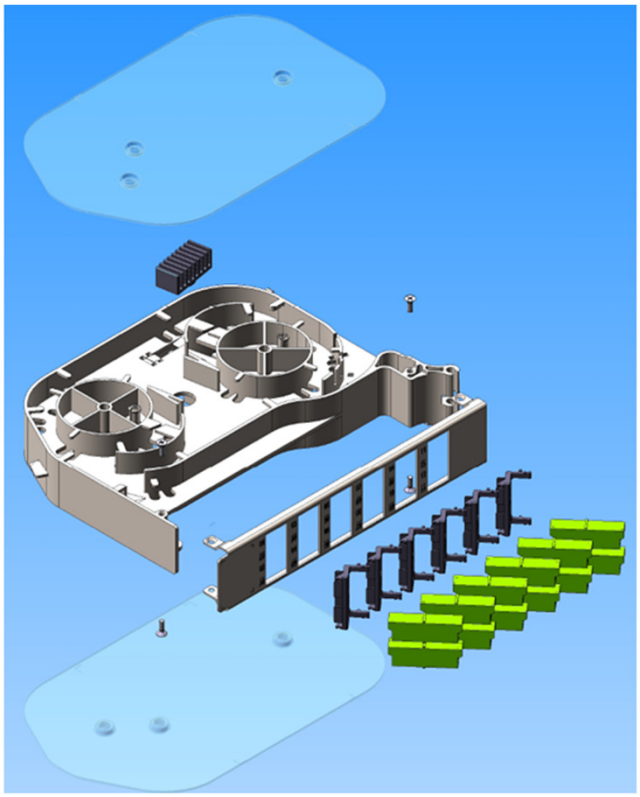
	Adapter type
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 SCsx **APC**
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 SCsx APC Swing shutter
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 E2000sx APC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 LCdx APC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 LX.5dx APC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	6 FC APC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 SCsx APC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 SCsx APC Swing shutter
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 E2000sx APC
Fiber module half-size (0,5HU) with mounted adapter + pigtails G657A	8 FC APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 SCsx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 SCsx APC Swing shutter
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 E2000sx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	6 E2000dx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 LCdx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 LX.5dx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	6 URM 8-port APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	12 FC APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 SCsx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 SCsx APC Swing shutter
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 E2000sx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	8 E2000dx APC
Fiber module full-size (1 HU) with mounted adapter + pigtails G657A	16 FC APC

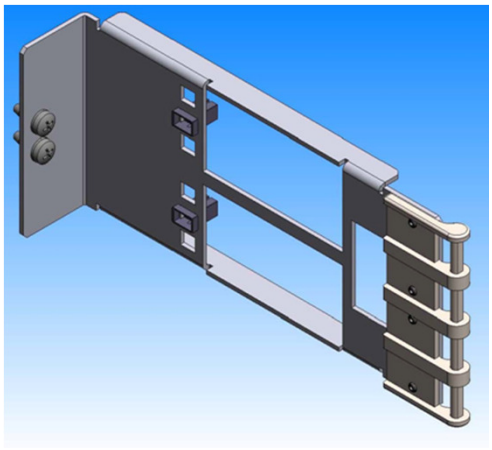
“x” has to be replaced with digit “3” for LEFT Fiber tray
“x” has to be replaced with digit “4” for RIGHT Fiber tray

Remark: full-size Fiber modules support 2 Fiber protection tubes / half-size Fiber modules support 1 Fiber protection tube

Fiber Module ordering code:

	Fiber Optic Module	Hight of tray		Cut out type	Adapter mounted		Number of fibers		Fiber type	Pigtails inserted		Splitter module	Fiber diameter		Special variants	
		1	-	2	3	-	4	-	5	6	-	7	8	.	9	
FOM																Fiber Optic Module
		H6														0,5 HU half size module with 6 adapter positions incl. frontplate+adapter holder+shrink/crimp spice holder+2 transparent covers
		H8														0,5 HU half size module with 8 adapter positions incl. frontplate+adapter holder+shrink/crimp spice holder+2 transparent covers
		F12														1 HU full-size module with 12 adapter positions incl. frontplate+adapter holder+shrink/crimp spice holder+2 transparent covers
		F16														1 HU full-size module with 16 adapter positions incl. frontplate+adapter holder+shrink/crimp spice holder+2 transparent covers
				00												Splice-through version without cutout, without adapter holder
				12												FC/UPC
				13												FC/APC
				22												SC/UPC
				23												SC/APC
				28												SC/UPC with integrated swing shutter
				29												SC/APC with integrated swing shutter
				32												ST/UPC
				42												LCdx/UPC
				43												LCdx/APC
				72												E2000sx/UPC
				73												E2000sx/APC
				74												E2000dx/UPC
				75												E2000dx/APC
				A2												LX.5/UPC
				A3												LX.5/APC
				B2												URM/UPC (8-port adapter system with duplex connectors/patchcords)
				B3												URM/APC (8-port adapter system with duplex connectors/patchcords)
					N											Without adapters
					W											With mounted adapters
							nn									Number of fibers
									1							SM G652 C/D
									2							SM G657 A
									3							SM G657 B
									4							G62,5 OM2
									5							G50 OM2
									6							G50 OM2+
									7							G50 OM3
									8							G50 OM4
										N						Without pigtails
										W						With inserted pigtails (stripped)
												SP				splitter modules
													250d			Color coded easy strip dismanteld Fiberpigtails
													250n			Color coded easy strip not dismanteld Fiberpigtails
															NN	Special variants





Module carrier unit:

The eFOS® module carrier unit accommodates the Fiber module and enables the rotation of the Fiber module in the rack and the removal of Fiber modules from the rack. A flexible mix of half-size and full-size Fiber modules is possible by using 4 different sizes of carrier modules (2, 4, 6, 8 HU). 8HU is the standard module carrier unit. Material: powder coated steel. Color: RAL 7035 light grey.



Fiber protection:

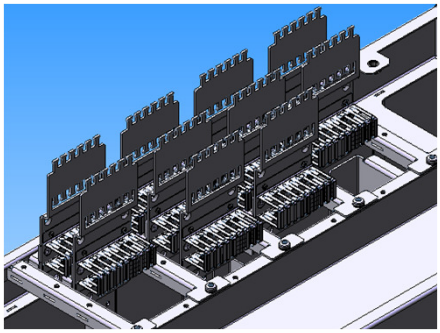
eFOS® offers two types of fiber protection types for incoming cables. **Miniflex** slit version kink resistance is used for optimal bending radius limitation of incoming loose tube cables, **Speedpipe** protection pipes offer the possibility to blow-in fibers directly up to the splice modules.

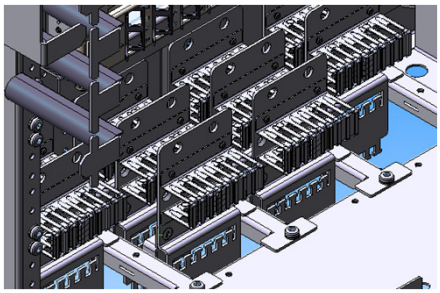
Miniflex:	*Type:*
Miniflex tube - slotted PBT tube ID=3,1mm AD= 5,0mm black, slit version	OFPT-S-5.0-3.1-PBT-BLK-VO
Speedpipe:	
Speedpipe indoor, ø 5x0,50	



Miniflex fiber protection tubes are usually delivered separately (cut to correct lengths) with each rack. All fiber protection tubes have an outside diameter of 5,0 mm.

With **Speedpipe** protection tubes a pre-installation ist possible by using our cable feeding tool.





Cable clamp set:

The eFOS® cable clamp sets are mounted on top or on the bottom side of the cabinet and secure the strain relief of incoming cables and also serve as hold point for the cable conduits. Optionally also the central strength member of incoming cables can be fixed. A cable clamp set includes cable clamp, mounting rail, protection bar and screws. Material: powder coated steel. Color: RAL 7035 light grey

Cable clamp set
Cable clamp set for multi-tube cables without strain relief
Cable clamp set for multi-tube cables with strain relief
Cable clamp set for single-tube cables without strain relief
Cable clamp set for single-tube cables with strain relief

The same cable clamp sets can be used for top and bottom rack mounting (have to be turned upside-down for bottom mounting, as shown in the drawing).



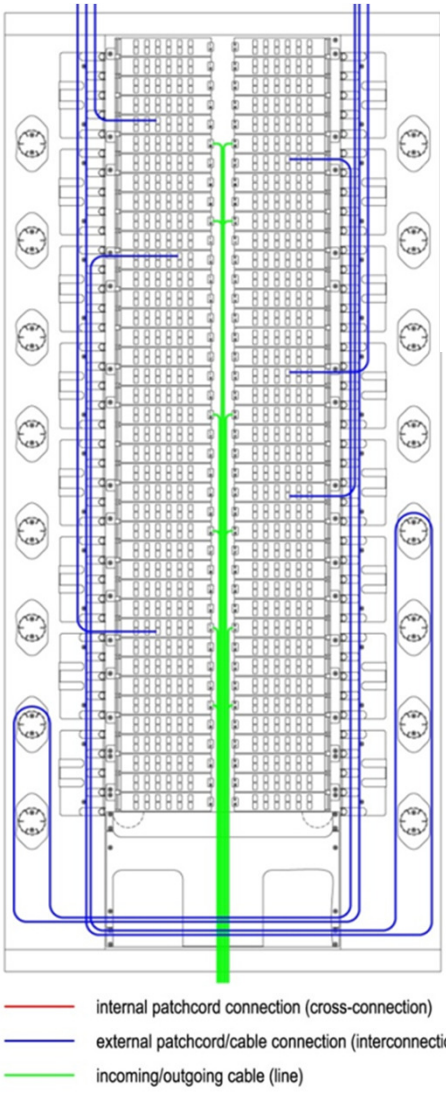
Fixing sets

Several fixing sets are available for eFOS to mount the racks to the wall, to the floor or to mount multiple racks side-by-side oder back-to-back to each other.

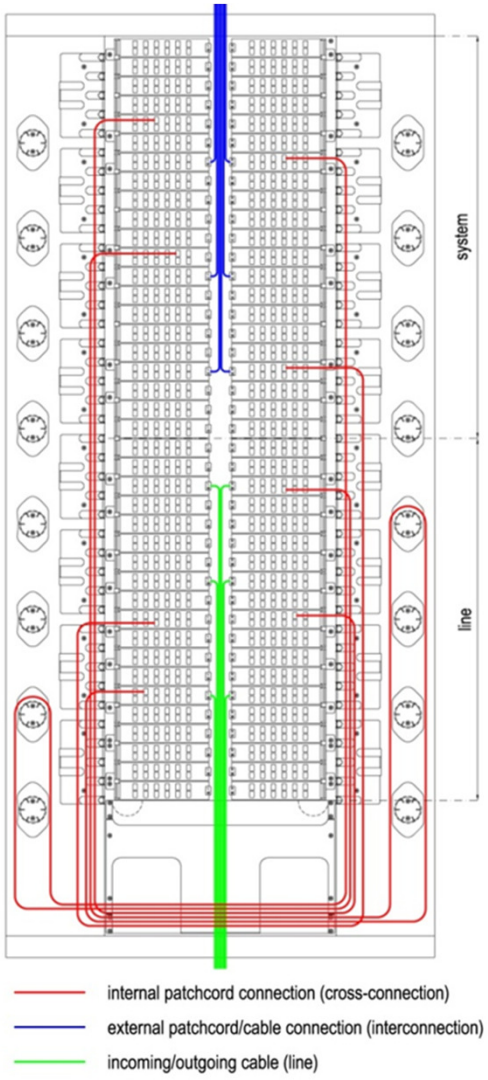
Fixing set
Side-by-side / back-to-back fixing set
Upper fixing set for bricks
Upper fixing set for concrete
Lower fixing set for concrete
Lower fixing set for raised floor
Plinth with levelling feet

eFOS Configurations:

The main application of eFOS® is Fiber termination in Central Offices of FTTH networks. The eFOS® distribution/patch system can be placed as distribution node within the passive distribution network or between active components and the passive distribution network. Please find below some examples for different eFOS® configurations.



Interconnect configuration: bottom cables to LINE, external patching and upper patchcord connection with SYSTEM rack



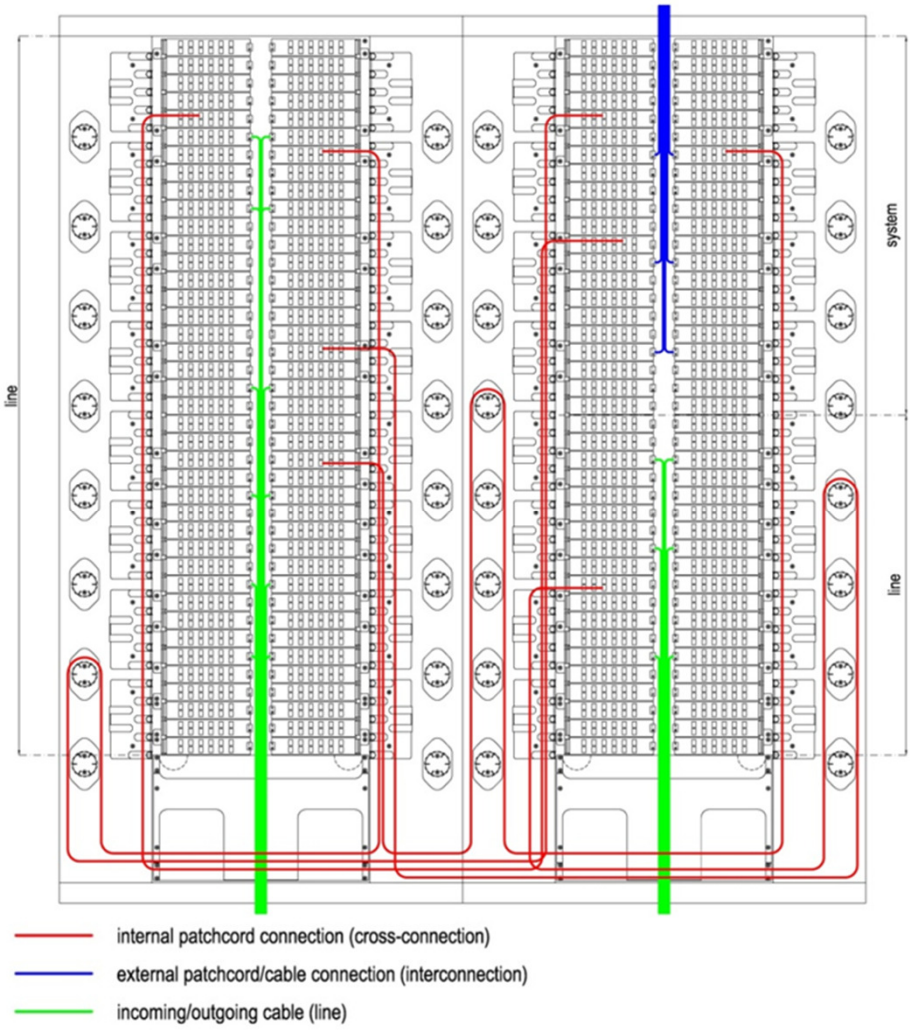
Cross-connect configuration: bottom cables to LINE, internal patching and upper external patchcord connection with SYSTEM rack

LINE....connection to passive optical distribution network
SYSTEM.....connection to active optical equipment (transmitter, receiver)

Recommended patchcord length is:

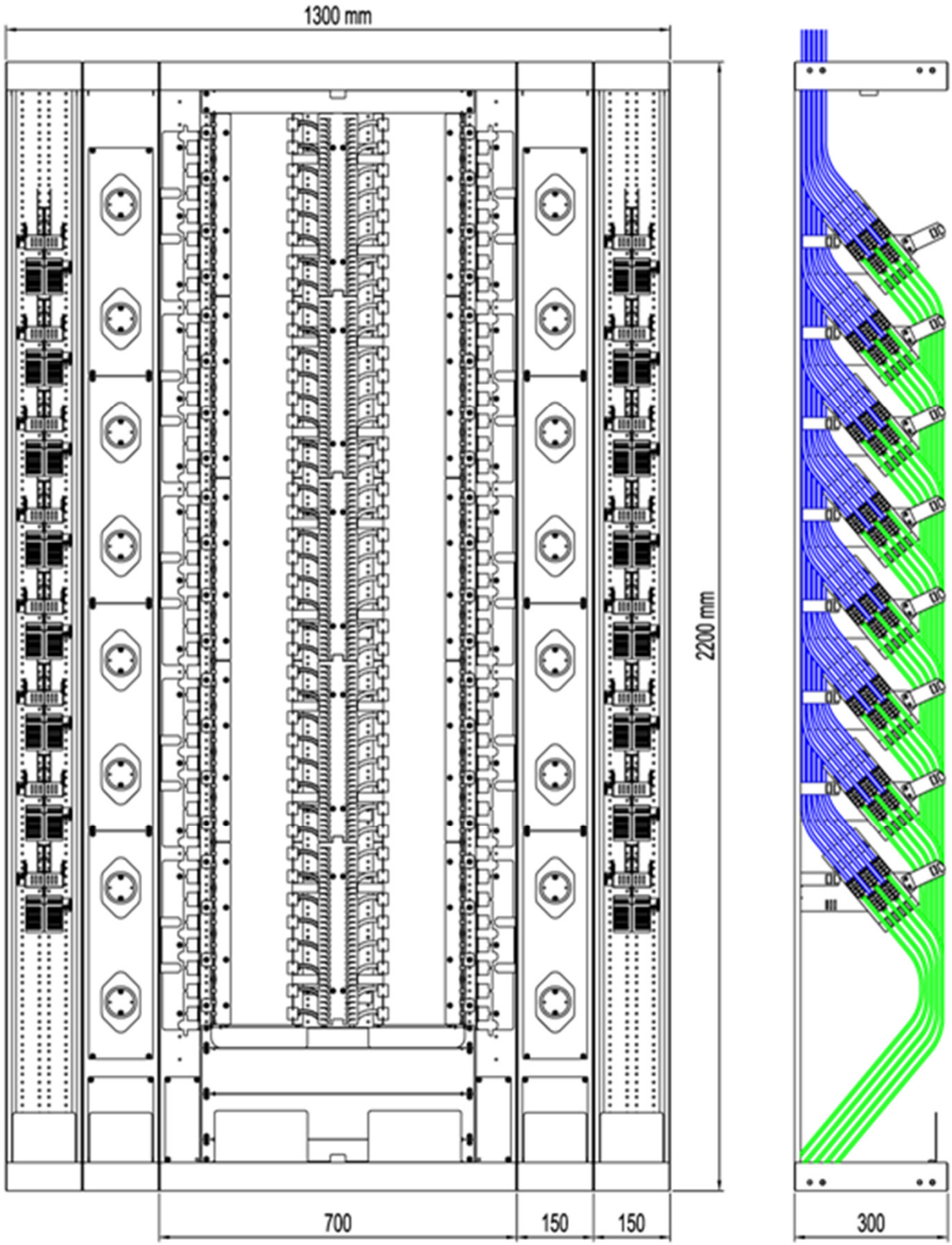
- 5m within the same rack
- 6m for patchcord connections to adjacent rack

eFOS Configurations:



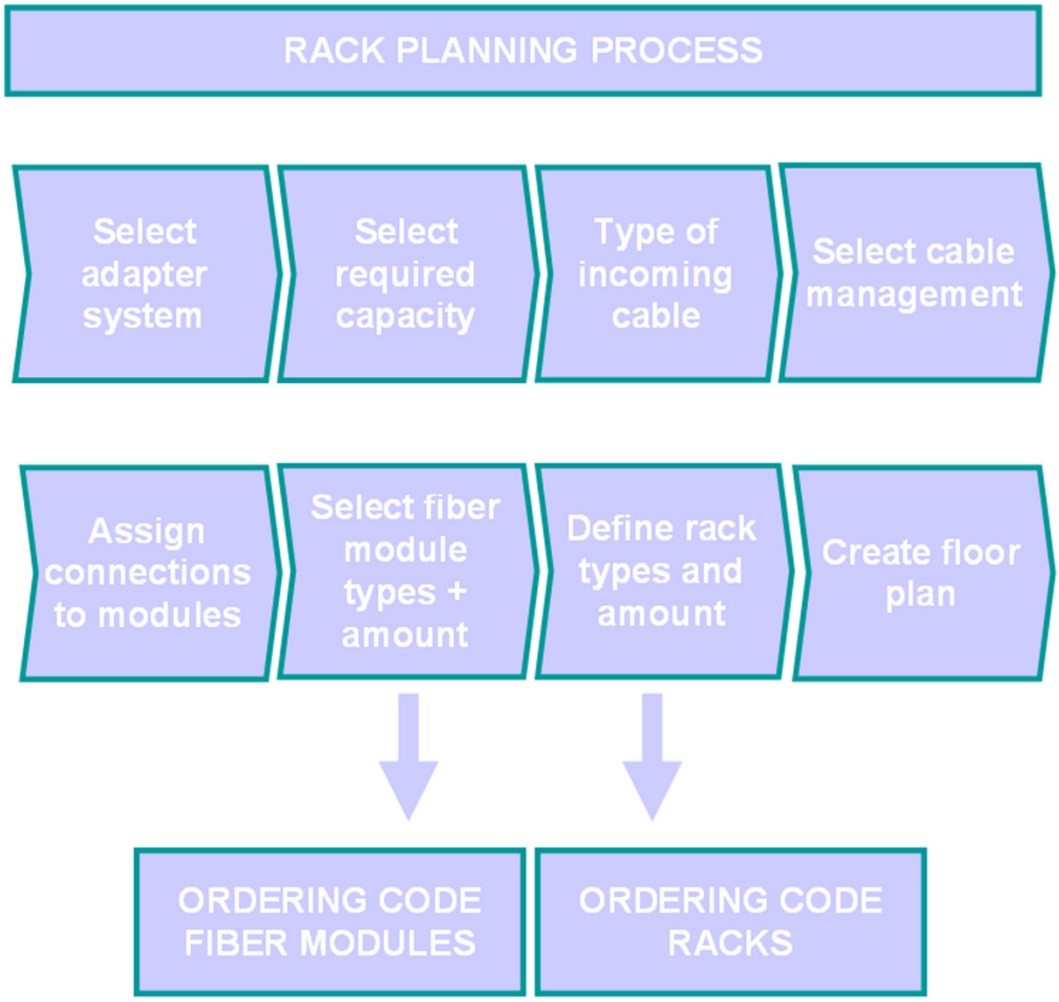
Cross-connect configuration with 2 racks:
bottom cables to LINE, internal patching between racks and upper external patchcord connection with SYSTEM rack

Dimensions of eFOS rack (example configuration):



eFOS planning process:

The eFOS® planning process usually starts with the selection of the adapter system. With the required Fiber termination capacity and the type of incoming cables, the cable management (cable clamp set, fiber protection type and installation variant) can be determined. Next step is the assignment of fiber terminations to fiber modules. This leads to the selection of fiber module types (0,5 HU / 1 HU), the determination of fiber module ordering code and the required amount of each fiber module type. With the given limitations for the rack types (dimensions, open/closed versions) the type and amount of required racks can be calculated. With this figure, a floor plan can be created and the rack ordering code can be determined.



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