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01

PART ONE

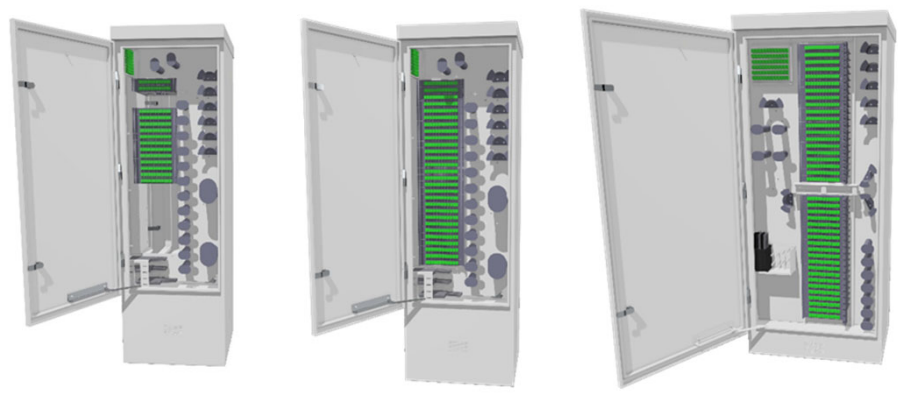
Fiber Distribution Hub

SA-FDH series

Fiber Distribution Hub

Modular FDH
Pole/Pad Mount
Enclosure

Usage For
PON
FTTX
MDU



Part Number	SA-FDH-144F	SA-FDH-288F	SA-FDH-432F
FDH Cabinet	144 Cores	288 Cores	432 Cores
Dimensions	1350×450×430mm	1350×450×430mm	1320×550×450mm
Weight	54kg	57kg	58kg
Port Density	144	288	432
Feeder/Express Ports	48	48	48
Cable Entrances	6	6	6
Mounting Options	Vault mount	Vault mount	Vault mount
Splitter Slots	9	9	14
Cassette Types Supported	12 cores Splice Cassette	12 cores Splice Cassette	12 cores Splice Cassette
Connector Types	SC/UPC, SC/APC, LC/UPC, LC/APC		
Cable Types	Indoor/Outdoor, Outdoor (Riser/Non-Rated), Outdoor Armored (Riser/Non-Rated)		
Splice Capacity	12 splices in each Splice Cassette		
Ground Locate Box	Yes - Optional		
Material	Galvanized steel plate with powder coating		

KEY PRODUCT BENEFITS

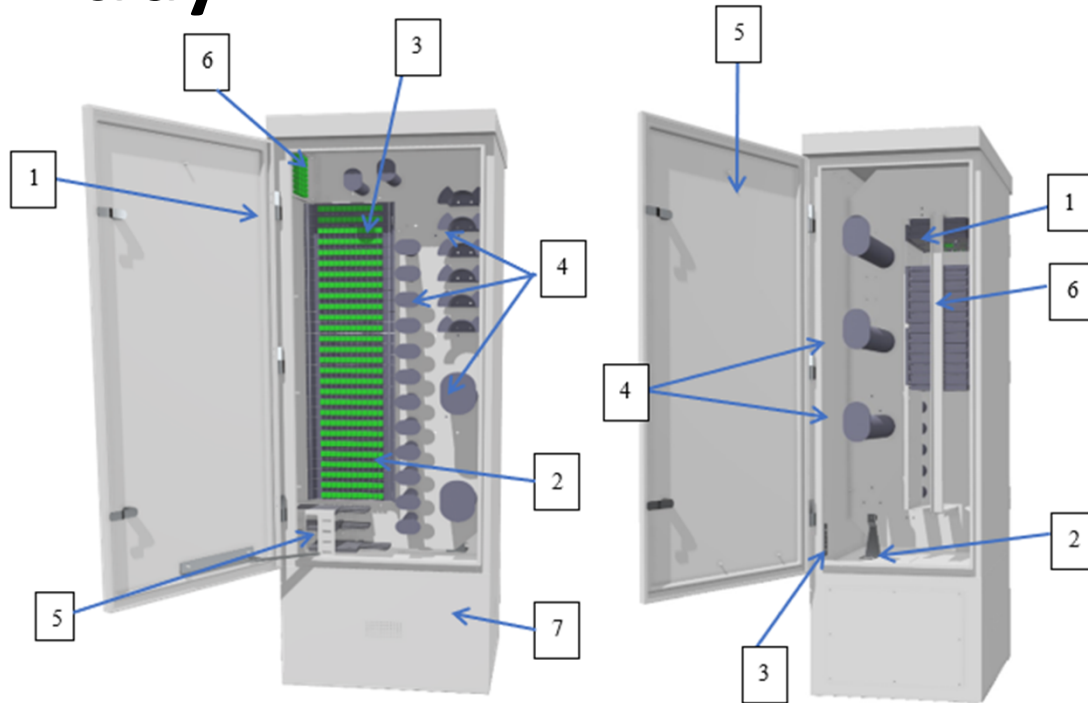
- 432 fiber distribution and PON splitting
- Modular patch & splice cassettes for added flexibility
- Available with feeder and distribution factory stubs
- Additional splicing capacity for express cables
- Side door distribution access
- Removable doors with padlock hasp
- Pole, wall and pad mount options
- Pad skirt options for extra slack storage

INDUSTRY STANDARDS COMPLIANCE

GR-3125, GR-1209, GR-1221, GR-326, GR-20

- Mount FDH to Canyon 30x48 Vault. Dual lid provides mounting and access to fiber
 - Use p/n: CYV-3048

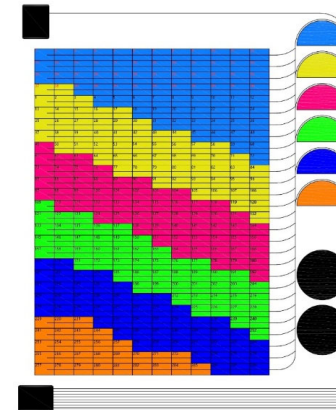
144/288 core FDH with full mount splice tray



1. Fiber Route Label
2. Distribution Cassettes
3. Feeder Cassettes
4. Fiber Management Rods and Spools
5. Fiber Splitter Storage
6. Connector Parking Plate
7. Riser

1. Distribution and Feeder Cassettes
2. Distribution and Feeder Cable Ports
3. Grounding wire
4. Fiber Management Rods and Spools
5. Tools storage pocket
6. Splice Cassettes magnetic fixing bar

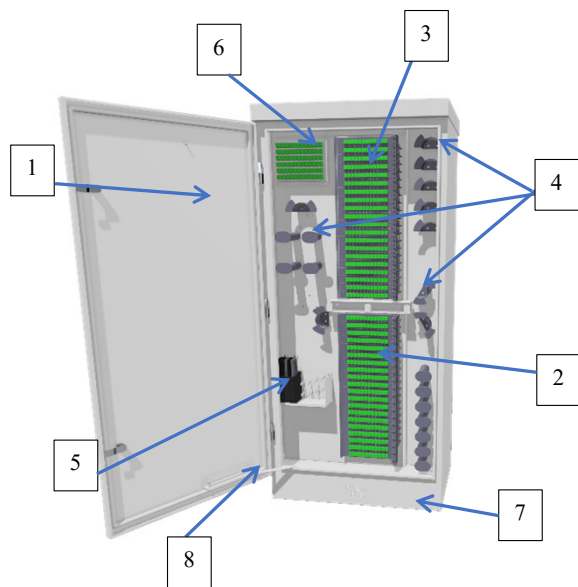
Fiber route for SA-FDH-144/288F



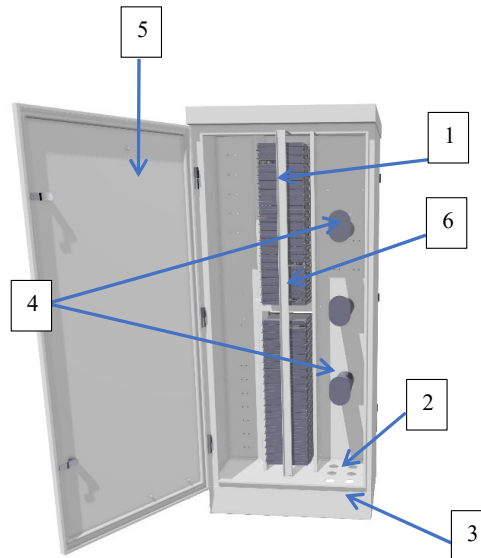
KEY PRODUCT BENEFITS

- 432 fiber distribution and PON splitting
- Modular patch & splice cassettes for added flexibility
- Available with feeder and distribution factory stubs
- Additional splicing capacity for express cables
- Side door distribution access
- Removable doors with padlock hasp
- Pole, wall and pad mount options
- Pad skirt options for extra slack storage

432 core FDH with full mount splice tray

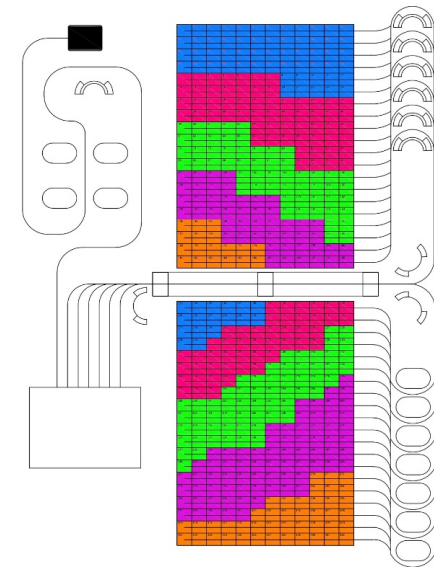


1. Fiber Route Label
2. Distribution Cassettes
3. Feeder Cassettes
4. Fiber Management Rods and Spools
5. Fiber Splitter Storage
6. Connector Parking Plate
7. Riser
8. Grounding wire



1. Distribution and Feeder Cassettes
2. Distribution and Feeder Cable Ports
3. Riser
4. Fiber Management Rods and Spools
5. Tools storage pocket
6. Splice Cassettes magnetic fixing bar

Fiber route for SA-FDH-432F



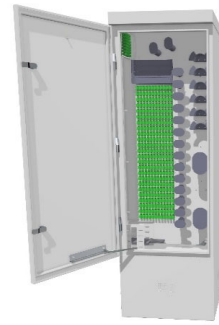
FDH with 30m drop fiber cable



144f with drop cable front view



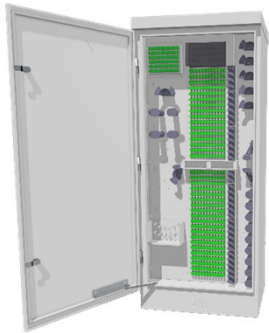
144f with drop cable back view



288f with drop cable front view



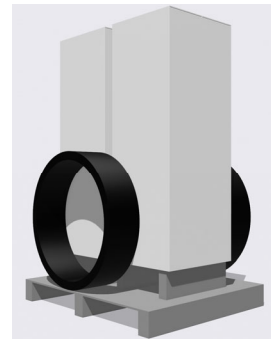
288f with drop cable back view



432f with drop cable front view



432f with drop cable back view





FDH with 30m drop cable packing method

FDH Standard Ordering Information

P/N	Product Description
SA-FDH-144F	1 set 144 cores FDH load with 144 pcs SC/APC 1m 0.9mm LSZH G657A1 pigtails and 144 pcs SC/APC simplex adapters
SA-FDH-288F	1 set 288 cores FDH load with 288 pcs SC/APC 1m 0.9mm LSZH G657A1 pigtails and 288 pcs SC/APC simplex adapters
SA-FDH-432F	1 set 432 cores FDH load with 432 pcs SC/APC 1m 0.9mm LSZH G657A1 pigtails and 432 pcs SC/APC simplex adapters
SA-FDH-144F-D30m	1 set 144 cores FDH load with 144 pcs SC/APC adaptor with 30m drop cable spliced ready. Cable is SA-OFC-GYDXY, Gel-free Single Jacket Central Tube Optic Ribbon Fiber Cable.
SA-FDH-288F-D30m	1 set 288 cores FDH load with 288 pcs SC/APC adaptor with 30m drop cable spliced ready. Cable is SA-OFC-GYDXY, Gel-free Single Jacket Central Tube Optic Ribbon Fiber Cable.
SA-FDH-432F-D30m	1 set 432 cores FDH load with 432 pcs SC/APC adaptor with 30m drop cable spliced ready. Cable is SA-OFC-GYDXY, Gel-free Single Jacket Central Tube Optic Ribbon Fiber Cable.
SA-FDH-144F-D30mA	1 set 144 cores FDH load with 144 pcs SC/APC adaptor with 30m drop cable spliced ready. Cable is SA-OFC-GYDXW, Gel-free Single Jacket Single Armor Central Tube Optic Ribbon Fiber Cable
SA-FDH-288F-D30mA	1 set 288 cores FDH load with 288 pcs SC/APC adaptor with 30m drop cable spliced ready. Cable is SA-OFC-GYDXW, Gel-free Single Jacket Single Armor Central Tube Optic Ribbon Fiber Cable
SA-FDH-432F-D30mA	1 set 432 cores FDH load with 432 pcs SC/APC adaptor with 30m drop cable spliced ready. Cable is SA-OFC-GYDXW, Gel-free Single Jacket Single Armor Central Tube Optic Ribbon Fiber Cable

Accessories: 12 Fiber Splice Tray

Technity P/N	Photos	Description
SA-CST-12F		<p>SC/APC 12 Fiber On Pigtail G657A1 PVC 0.9mm 1.5M</p> <p>14 trays in 144 core FDH 28 trays in 288 core FDH 40 trays in 432 core FDH</p> <p>Standard number of splice trays shown per cabinet</p> <p>Additional splice trays can be ordered</p>
SA-CST-12FR		<p>SC/APC 12 Fiber Splice On Ribbon Fanout Pigtail 1.5M</p> <p>14 trays in 144 core FDH 28 trays in 288 core FDH 40 trays in 432 core FDH</p> <p>Standard number of splice trays shown per cabinet</p> <p>Additional splice trays can be ordered</p>

- **Splice tray can be customized based on need**



Technical details

Box PLC Specification										
Wavelength(nm)	1260-1650									
Fiber Type	Single mode (G657.A2)									
Optical Fiber Length	1500mm, can be customized									
Jacket O.D.	2.0mm, can be customized									
Splitter Ratio	1×4	1×8	1×16	1×32	1×64	2×4	2×8	2×16	2×32	2×64
Insertion Loss (with connector) (dB)	≤7.4	≤10.5	≤13.8	≤17.1	≤20.4	≤7.5	≤10.8	≤14.1	≤17.4	≤21
Uniformity (dB)	≤0.8	≤0.8	≤1.0	≤1.3	≤2.0	≤1.0	≤1.0	≤1.5	≤2.0	≤2.5
PDL(dB)	≤0.2	≤0.2	≤0.19	≤0.18	≤0.17	≤0.2	≤0.18	≤0.17	≤0.16	≤0.19
Size(H×W×L)(mm)	10×80×100	18×80×120	18×115×141	18×115×141	10×80×100	18×80×120	18×80×120	18×115×141	18×115×141	18×115×141
Return Loss(dB)	UPC≥50 APC≥55									
Directivity(dB)	≥55									
Temperature Range(°C)	-40~+85									
Storage Temperature(°C)	-40~+85									

Order splitters separately

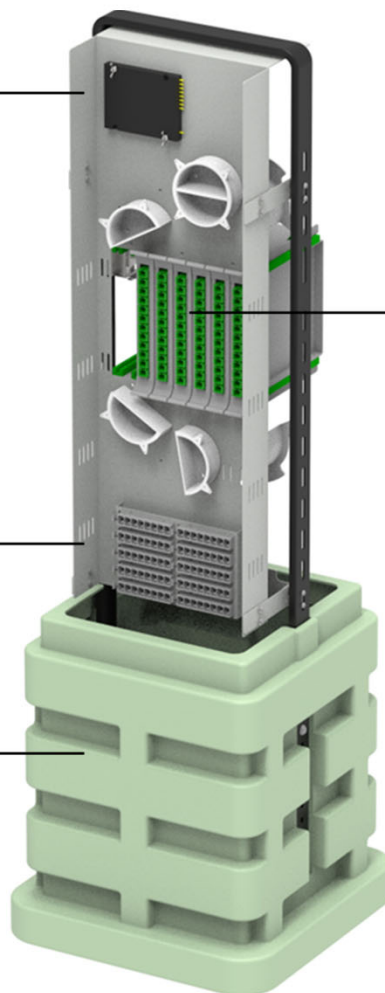
P/N	Description	
SA-BPLC-XXX-YYY	Box type PLC, with selection of different connector type and splitter ratio. Cable O.D. is 2.0mm. Input and output length can be customized, default are 1.5 meter.	
	XXX	connector type SCA - SC/APC SCU - SC/UPC LCA - LC/APC LCU - LC/UPC
	YYY	splitter ratio 104 - 1:4 type 108 - 1:8 type 116 - 1:16 type 132 - 1:32 type 164 - 1:64 type 204 - 2:4 type 208 - 2:8 type 216 - 2:16 type 232 - 2:32 type 264 - 2:64 type

NEW SureAlign Mini FDH Pedestal

1:32 box type splitter
1:8, 1:12, 1:16 options

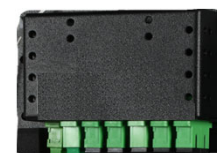
Parking Lot
80 spots

SA-PD-141446
Pedestal



One-Piece Fiber Splice Tray,
7 trays, 12 ports

**Available with Optional Fiber Taps
In Distributed Tap Architecture**



Box Type



FSIC Type

SureAlign Mini FDH in Pedestal Proposal

