

# Introduction for Fiber Optics and Fiber Management



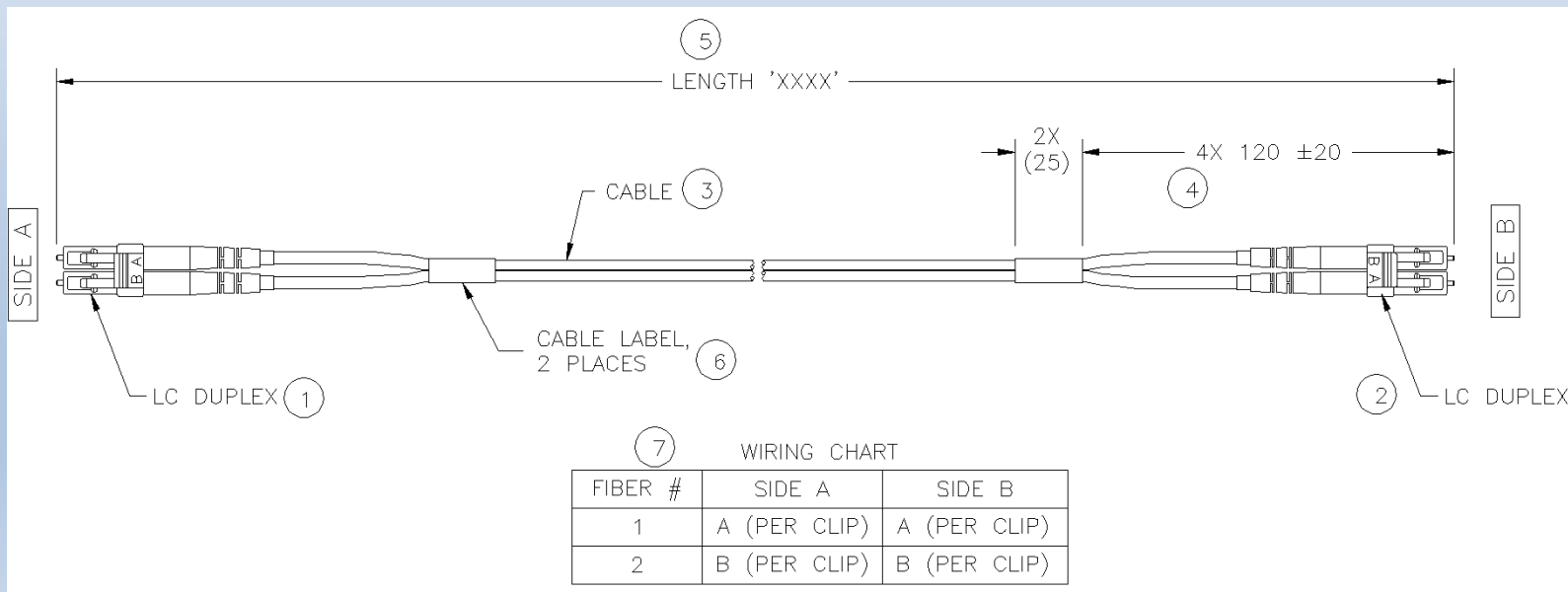
Si-GOU Technologies Co., Ltd.  
Shenzhen, China

## Indoor fiber optics (Single channel)

Example:

JUMPER, LC(D), S/M, 2.0mm ZIP, YELLOW

<b>Assembly type</b>	JUMPER
<b>SIDE A</b>	LC DUPLEX, S/M, BLUE
<b>SIDE B</b>	LC DUPLEX, S/M, BLUE
<b>Main cable type</b>	CABLE, ZIP, 2.0mm, S/M, YELLOW
<b>BO length</b>	120mm BO
<b>Overall length</b>	"XXXX" means overall length
<b>Cable label</b>	Show content, such as PN, customer PN, lot number, CoC, etc.

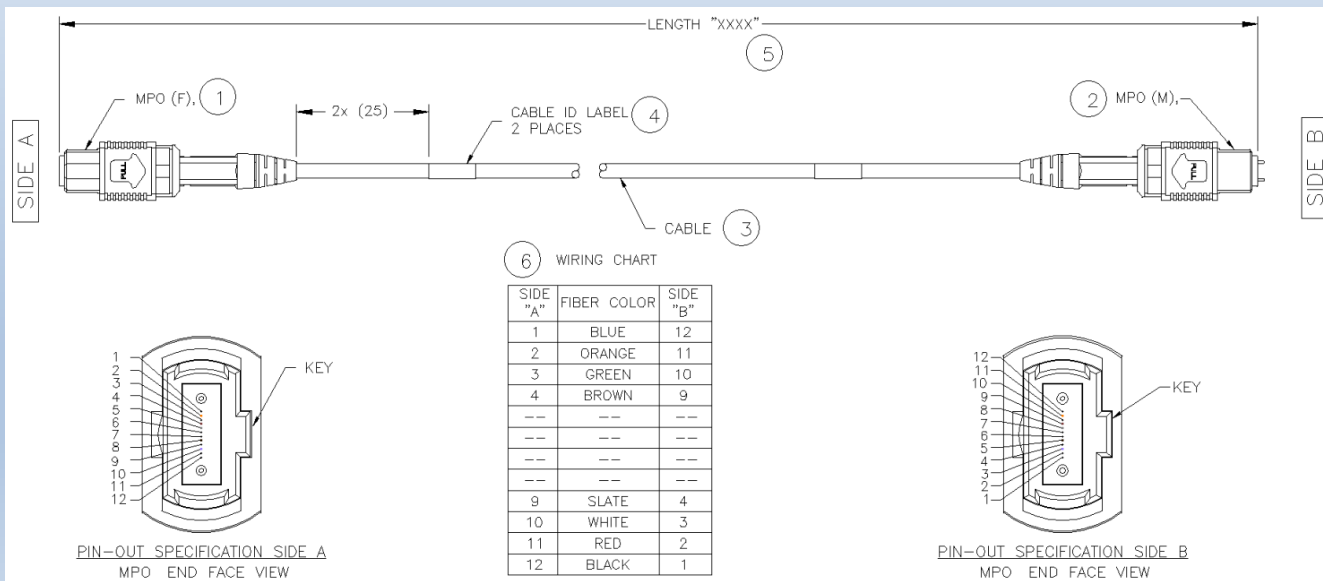


## Indoor Fiber optics (Multiple channel)

Example:

JUMPER, MPO (F)-MPO (M), OM4, QSFP, 3.0mm  
ROUND, AQUA

<b>Assembly type</b>	JUMPER
<b>SIDE A</b>	MPO FEMALE, 12 Channel
<b>SIDE B</b>	MPO MALE, 12 Channel
<b>Main cable type</b>	CABLE, 3.0mm round, OM4, AQUA
<b>BO length</b>	N/A
<b>Overall length</b>	"XXXX" means overall length
<b>Cable label</b>	Show content, such as PN, customer PN, lot number, CoC, etc.



## Range of indoor fiber assembly

Connector and jumper assembly: GR-326-CORE  
Optical cable: GR-409-CORE



JUMPER, LC SIMPLEX, SM



JUMPR, LC DUPLEX, SM



JUMPR, SC DUPLEX, SM



JUMPR, LC/UPC(D)-x2 SC, SM



JUMPER, MPO(M)-MPO(F), OM3, 12F



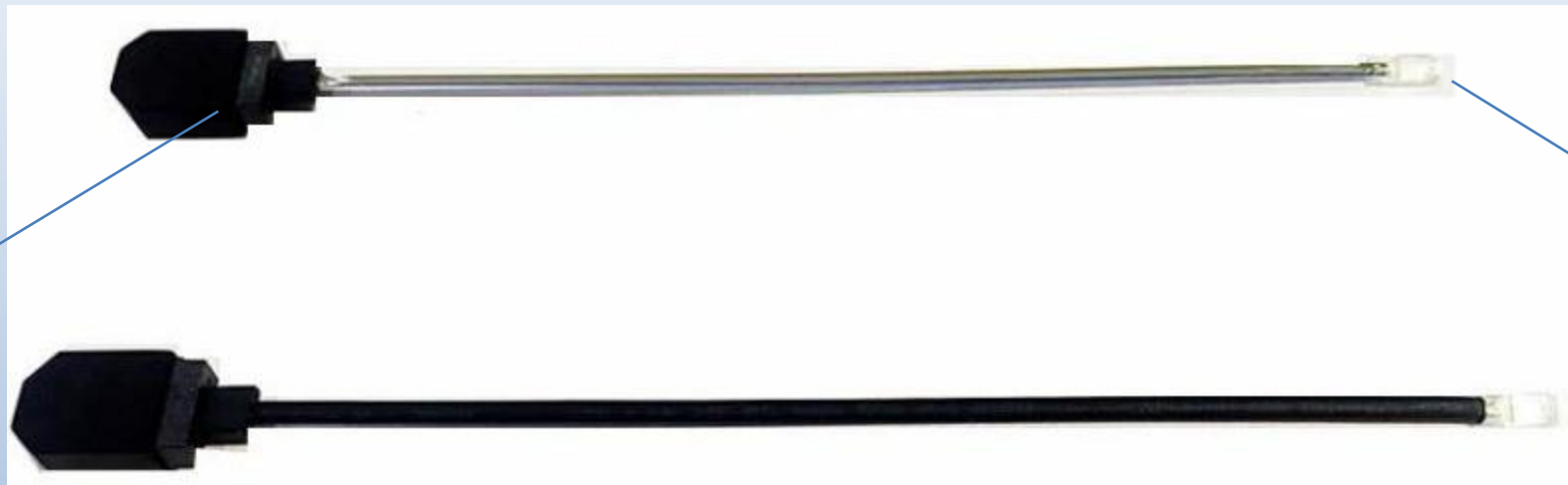
JUMPER, MPO(F)-x12 LC/UPC(D), OM3, 24F

## High fiber count cable assembly



1. Optional fiber count: 36F, 48F, 96F, 144F and 288F.
2. Normally for OSP deployment.
3. Two-level fanout, first is 3.0mm, second is 2.0mm.
4. Breakout length: up to 2.5m.
5. Pre-terminated cable, reduce installation time and increase revenue.

## Unique fiber assembly



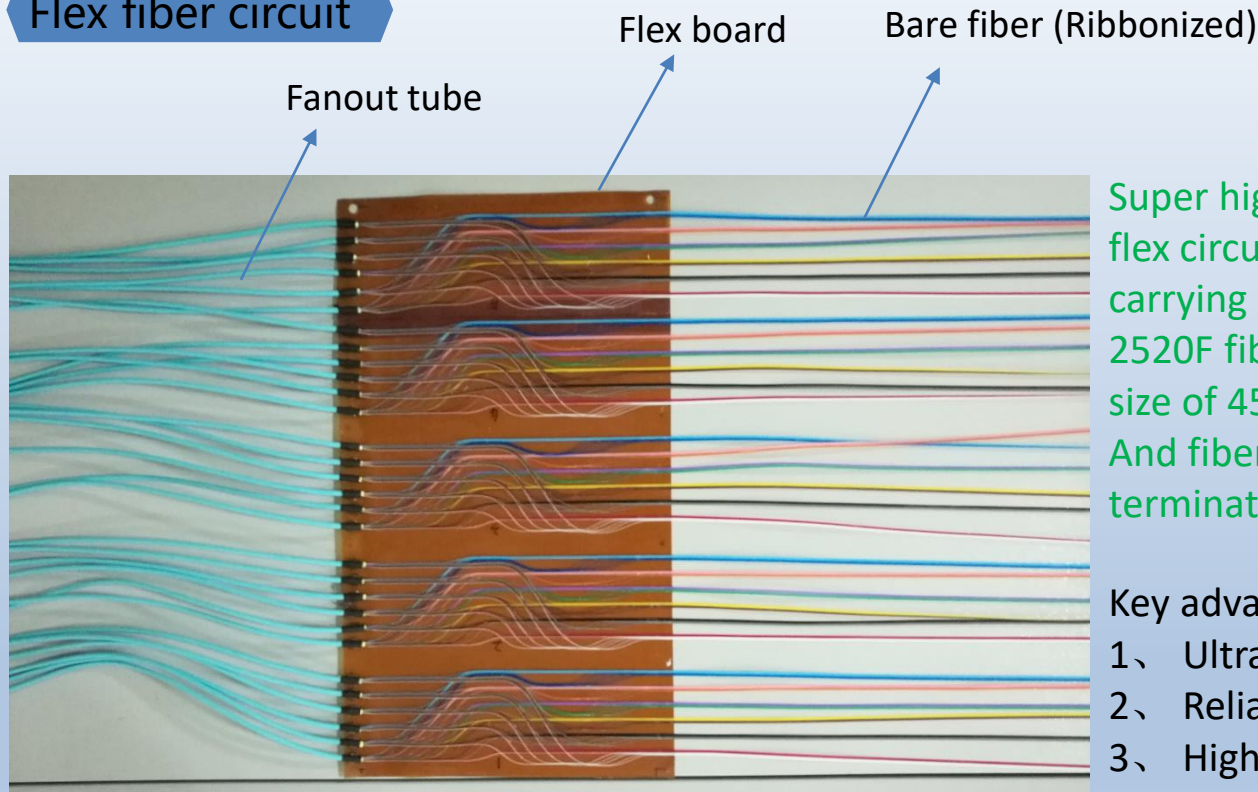
MT ferrule

FA, 45 DEG

JUMPER, MT-FA(45DEG), RIBBON

Normally applied in the field of parallel optical module,  
Such as QSFP、SNAP12、AOC、HDM and so on.

## Flex fiber circuit



Flex fiber optic circuit

Super high density can be achieved with flex circuit, normally used in optical carrying network. Max fiber count: 2520F fiber can be encapsulated in a box size of 450mmW\*300mmD\*25mmH. And fiber outside box are normally terminated with MT ferrule.

Key advantages:

- 1、 Ultra-broadband
- 2、 Reliability
- 3、 High efficiency
- 4、 Convenient
- 5、 Very small size



## Outdoor fiber assembly



IP-SC, Senko.

Application: Drop jumper in FTTH application



IP-MPO, Senko.

Application: Trunk cable in FTTA and FTTH application



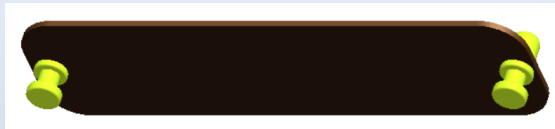
IP-LC, Senko.

Application: Top jumper in FTTA application

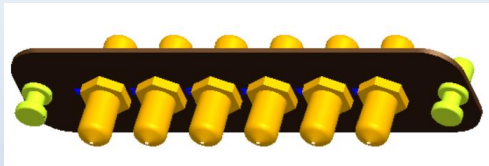


## Fiber management: For data center

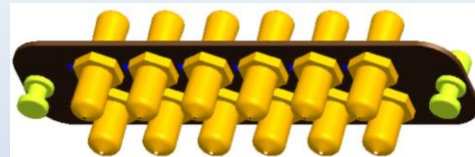
### Patch panel unit



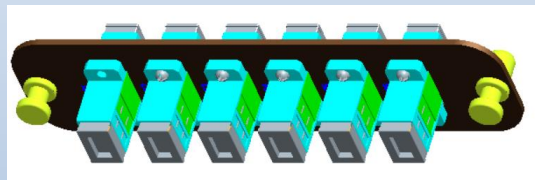
Blank panel



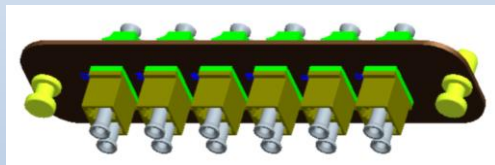
Panel, ST adapter, 6F



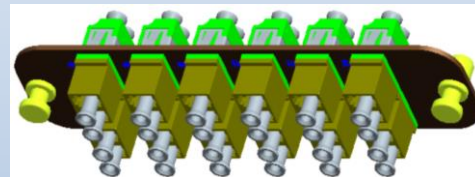
Panel, ST adapter, 12F



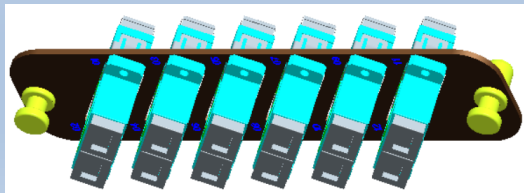
Panel, SC adapter, 6F



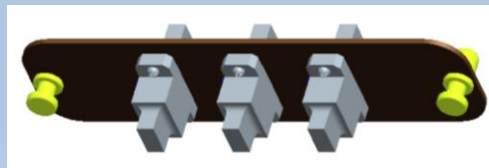
Panel, LC adapter, 12F



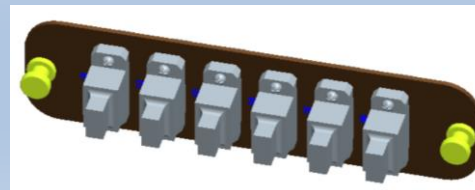
Panel, LC adapter, 24F



Panel, SC adapter, 12F

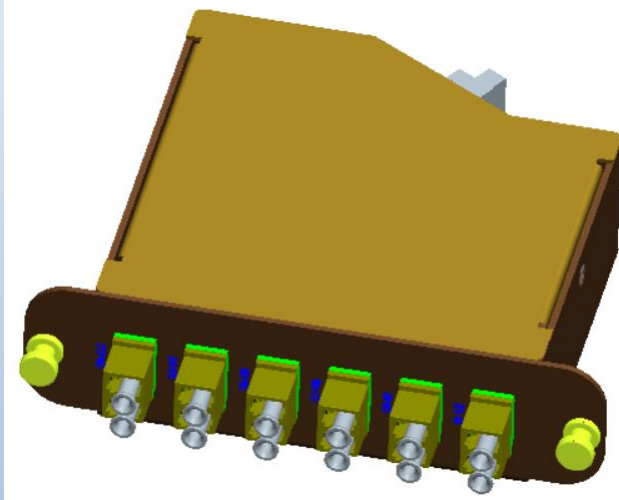


Panel, MPO adapter, 3 places

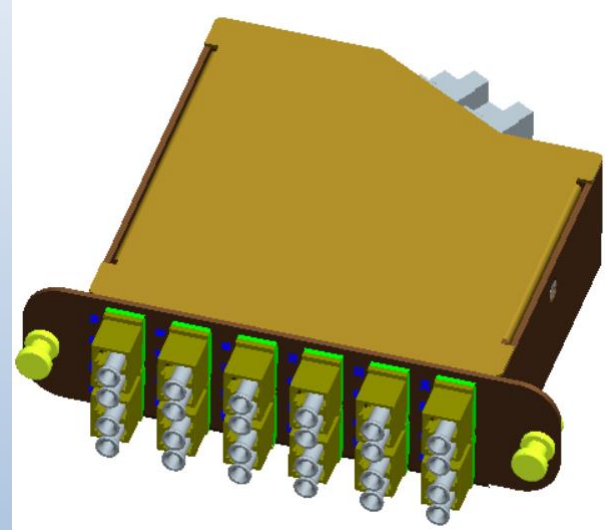


Panel, MPO adapter, 6 places

## Fiber management: For data center LC(D)-MPO cassette



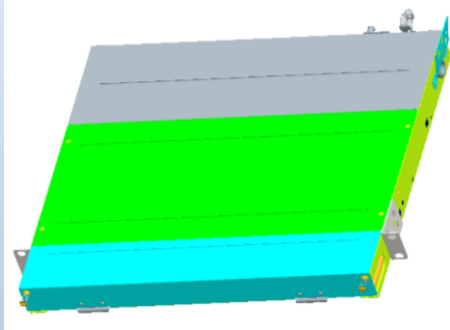
Cassette, MPO-x6 LC(D), 12F



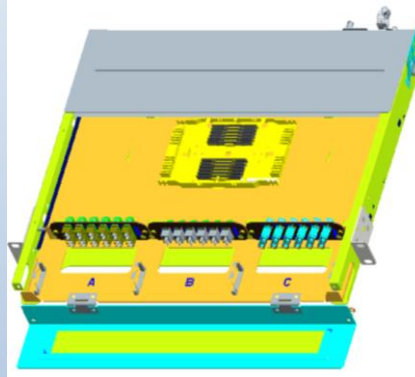
Cassette, x2 MPO-x12 LC(D), 24F

## Fiber management: For data center

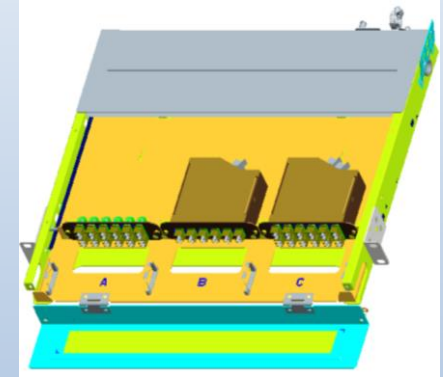
1RU Rack, 19 inch



Appearance



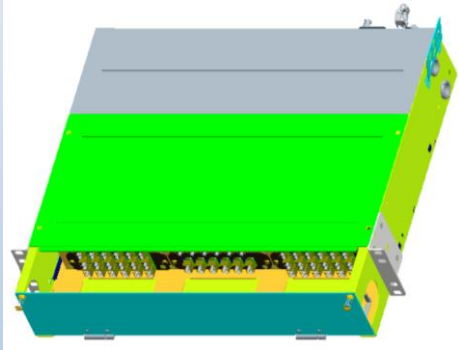
Splicing only: Three patch panels



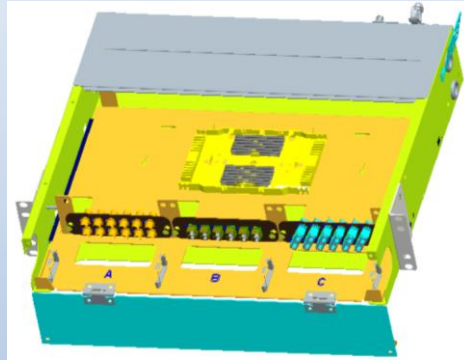
Distribution only:  
Three patch panels or cassettes

## Fiber management: For data center

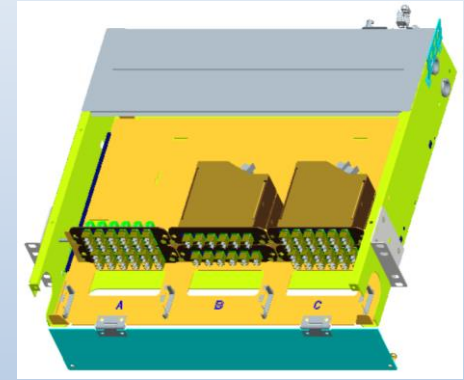
### 2RU Rack, 19 inch



Appearance



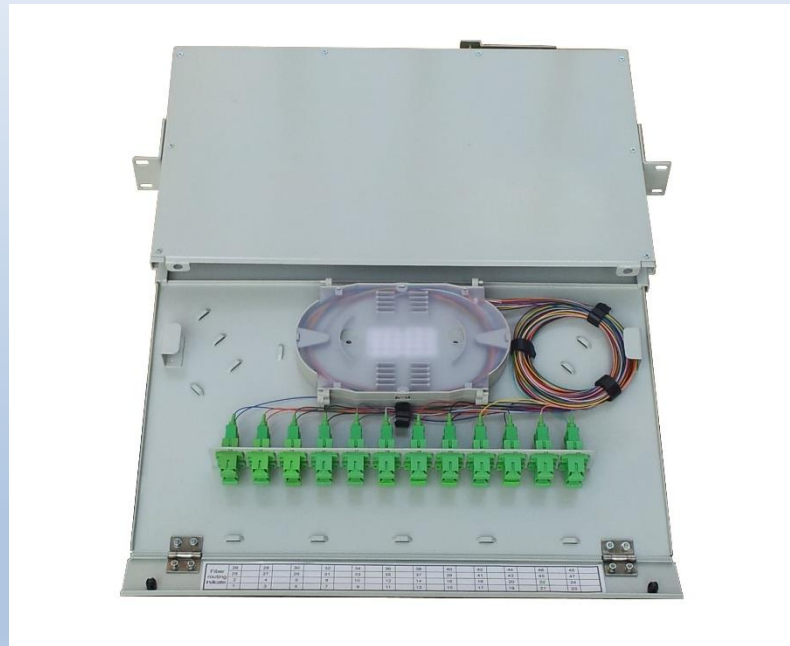
Splicing only: Six patch panels



Distribution only:  
Six patch panels or cassettes

## Fiber management: For FTTH

1RU Rack, 19 inch



Max capacity:  
24 SC simplex or LC duplex

## Fiber Distribution Hub: For FTTH

Front double doors, 19 inch

PLC splitter rack, 1RU

Max  $2 \times 32$  ratio

Drawer type

Splicing rack, 1RU, 24F

Key advantages:

1. 18 RUs space of each bay.
2. Front double doors.
3. All opening front access.
4. Double skin aluminum



## Fiber distribution box



Subscriber side

Input cable side





## Fiber distribution box

Splicing tray



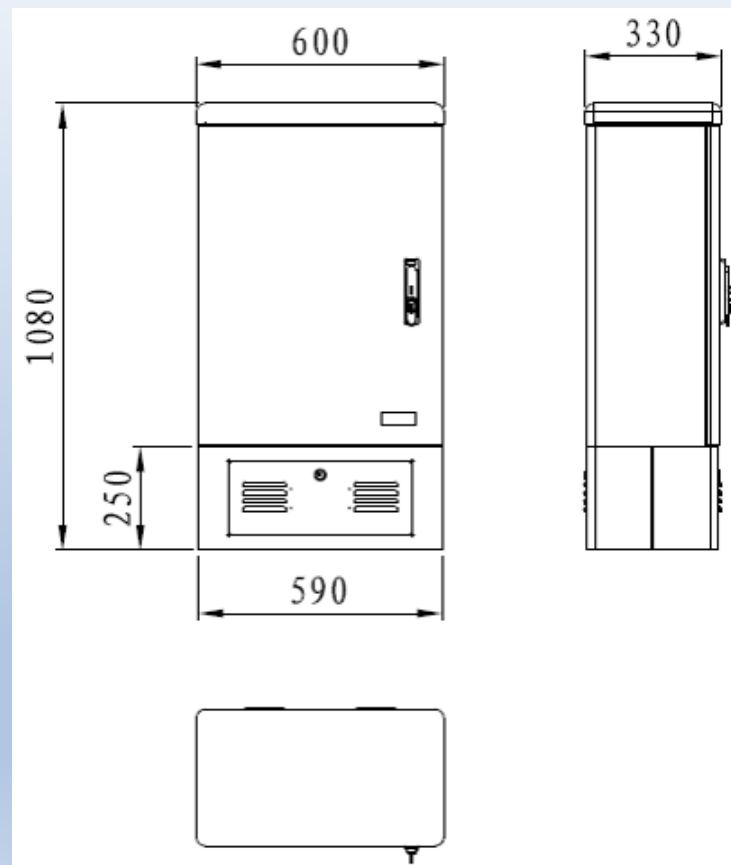
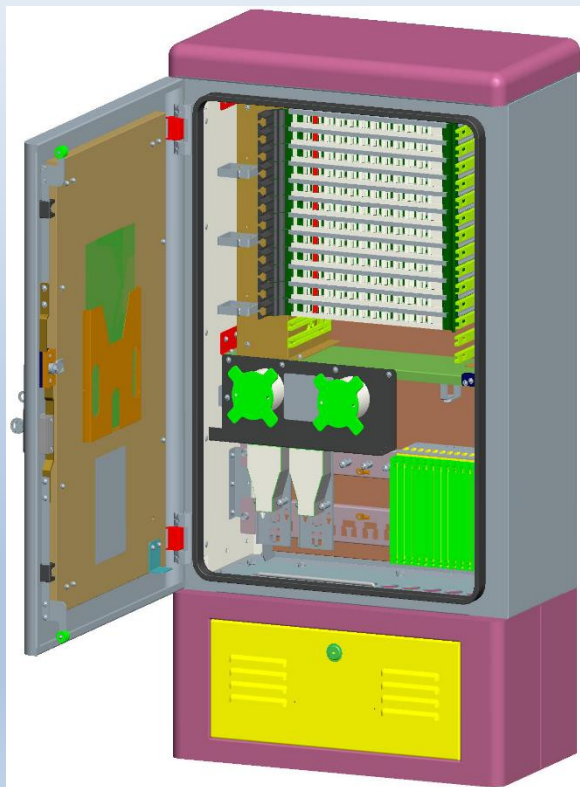
Cassette splitter



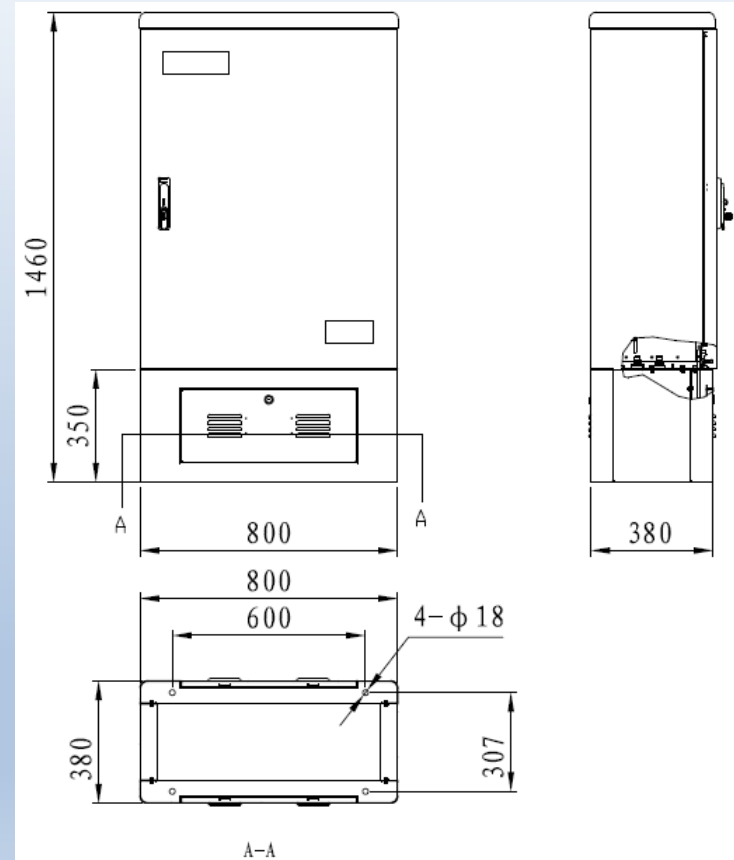
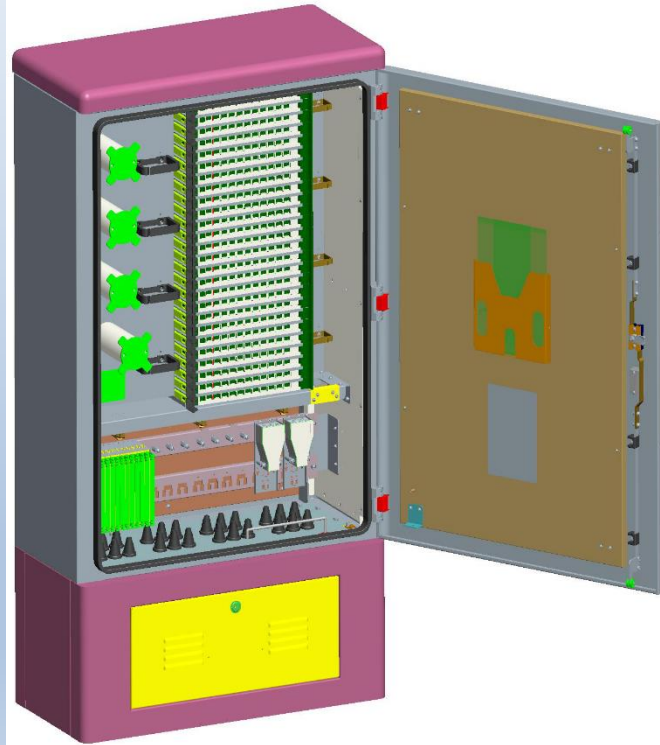
1. Photos shown only for the splicing type.
2. For field-installation connector, subscriber can be terminated with bow-type cable and field-installation connector, then mate with the splitter cassette.

## Fiber distribution hub

144 fiber count

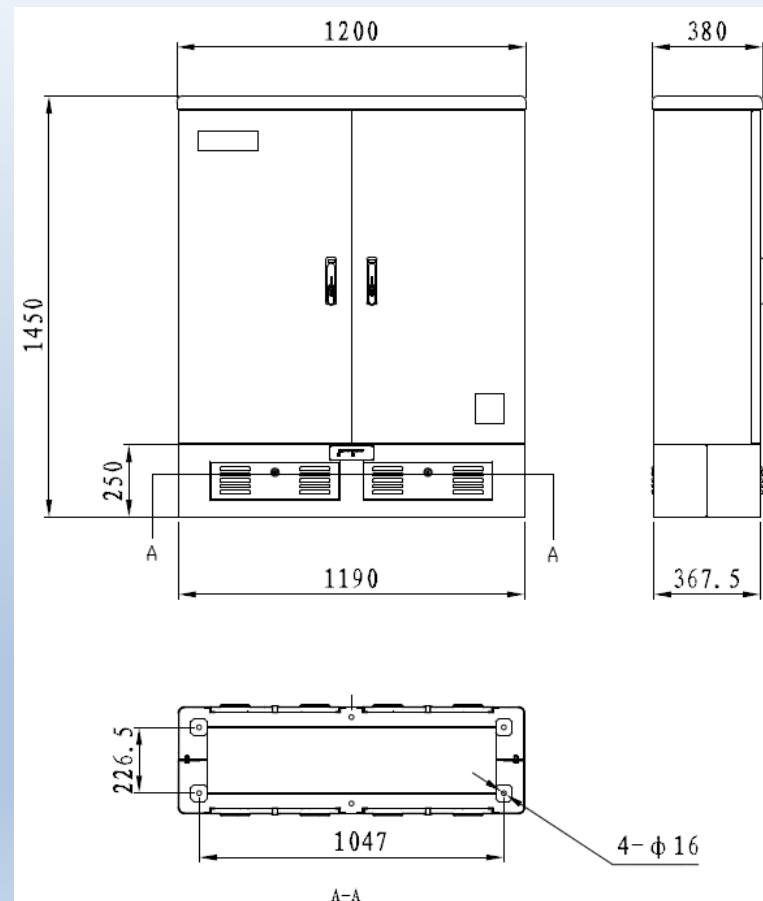
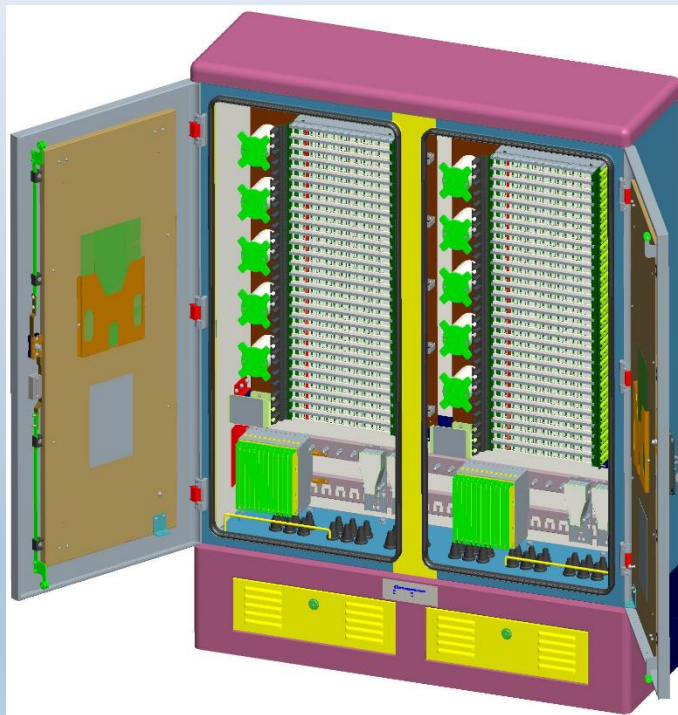


## Fiber distribution hub 288 fiber count



## Fiber distribution hub

576 fiber count



***Thank you very much***