FastLink™Modular Fiber Cabling Solution in the Data Center
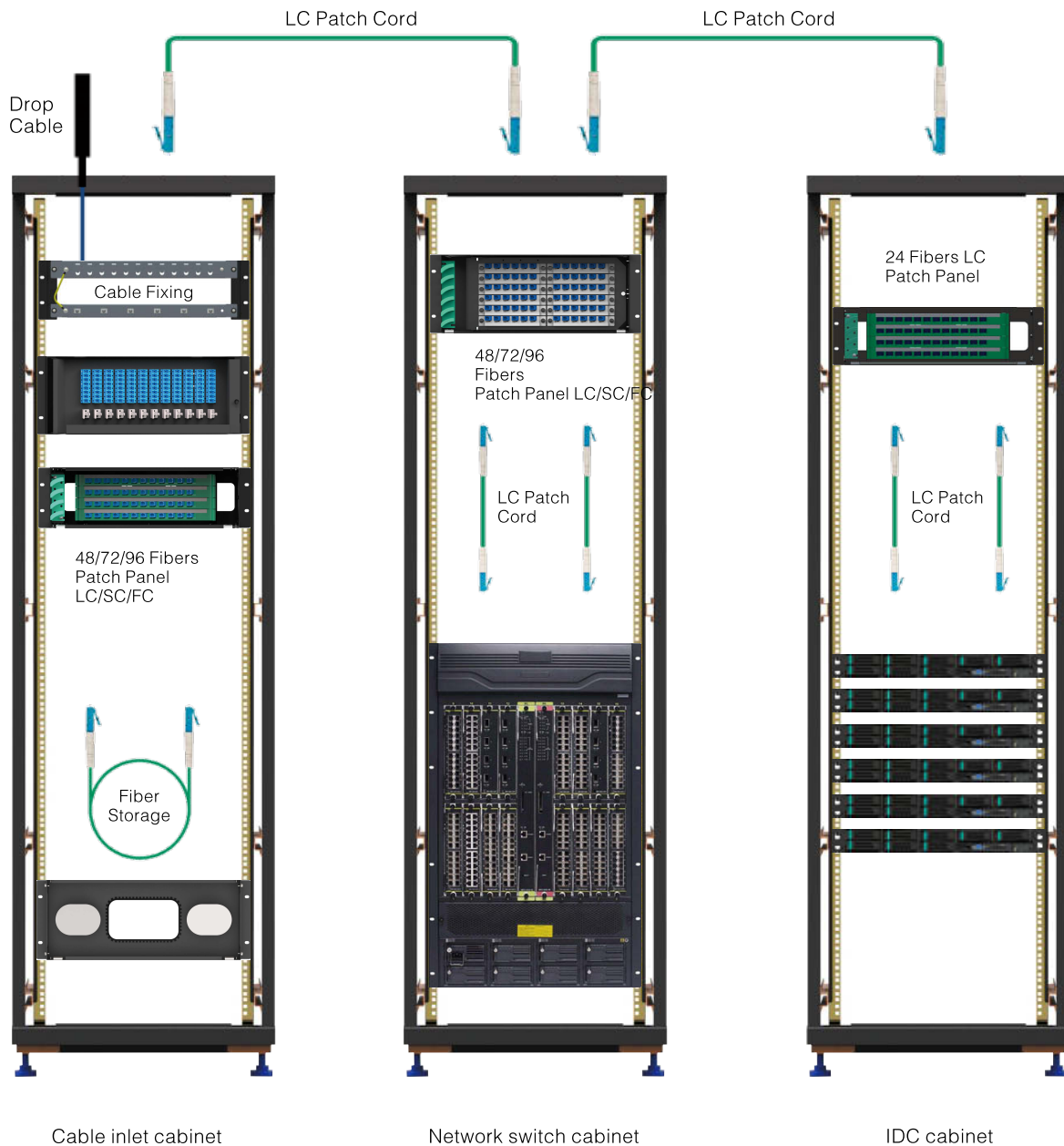
In data center, fast and efficient cable installation and interconnection is the foundation for reliable data, voice, video and other services. FastLinkTM fiber cabling solution is such a modular network solution based on creative technology development, fast and accurate manufacturing technology. Modular fiber cabling solution, which adapts to the application from compact to large data centers, applies to variety of traditional optical distribution networks and high-density MPO/MTP optical fiber interconnection networks. Therefore, it meets the need by a better price performance and has the advantages of rapid deployment, flexible networking and high performance. FastLinkTM is perfect cabling solution for today's data centers.

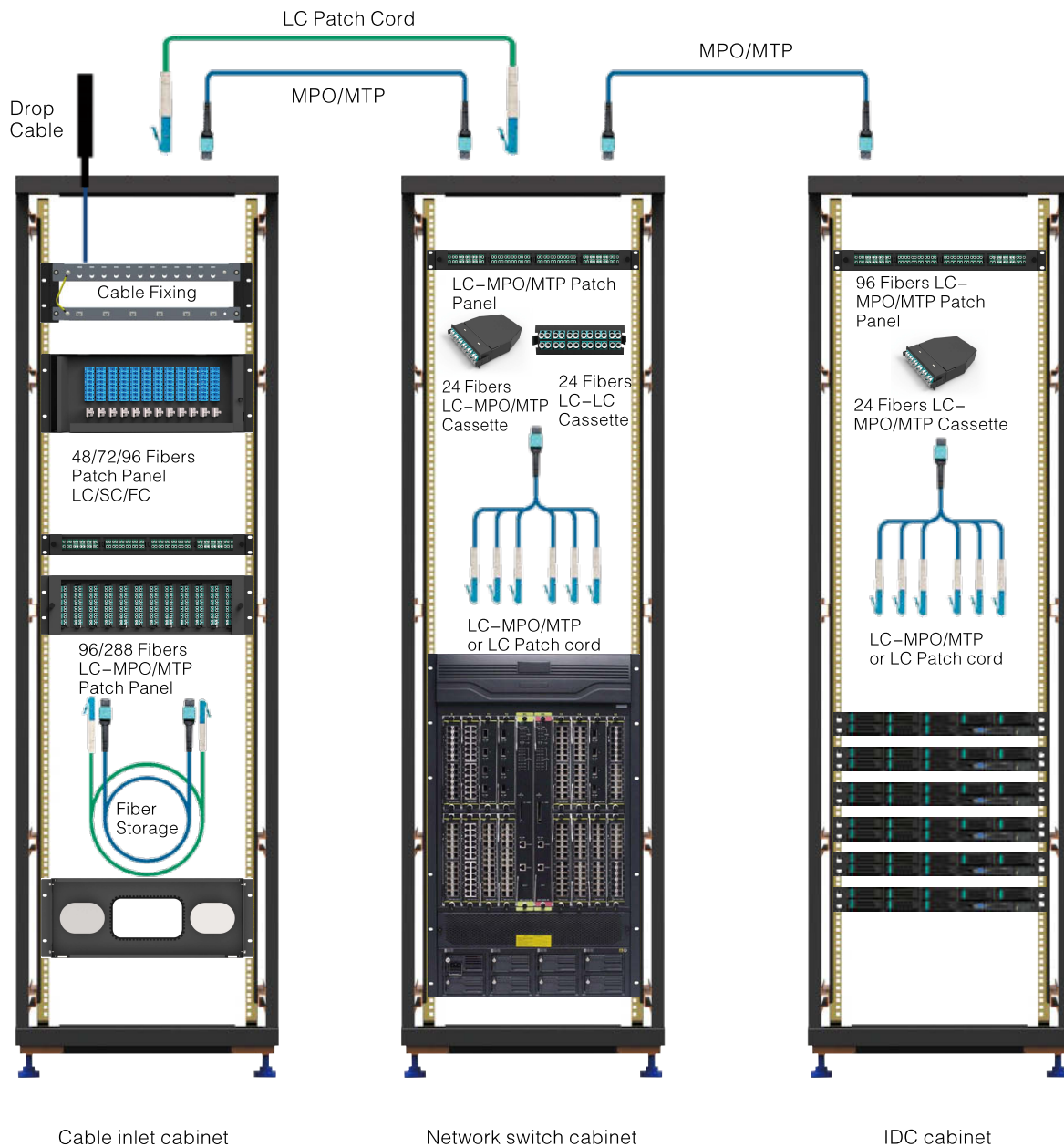# FastLink^{TM}Solution–Compact Data Center

Compact data center fiber management solution adopts the LC inlet and traditional optic fiber patch panel directly connecting network switch cabinet and IDC cabinet. This solution is applicable to compact data centers with a small quantity of optical fibers, which can effectively save transition cable and save network cost,increase more convenience to application.

LC Patch Cord   LC Patch Cord

Drop Cable

Cable Fixing

48/72/96 Fibers Patch Panel LC/SC/FC

Fiber Storage

48/72/96 Fibers Patch Panel LC/SC/FC

LC Patch Cord

24 Fibers LC Patch Panel

LC Patch Cord

Cable inlet cabinet   Network switch cabinet   IDC cabinet

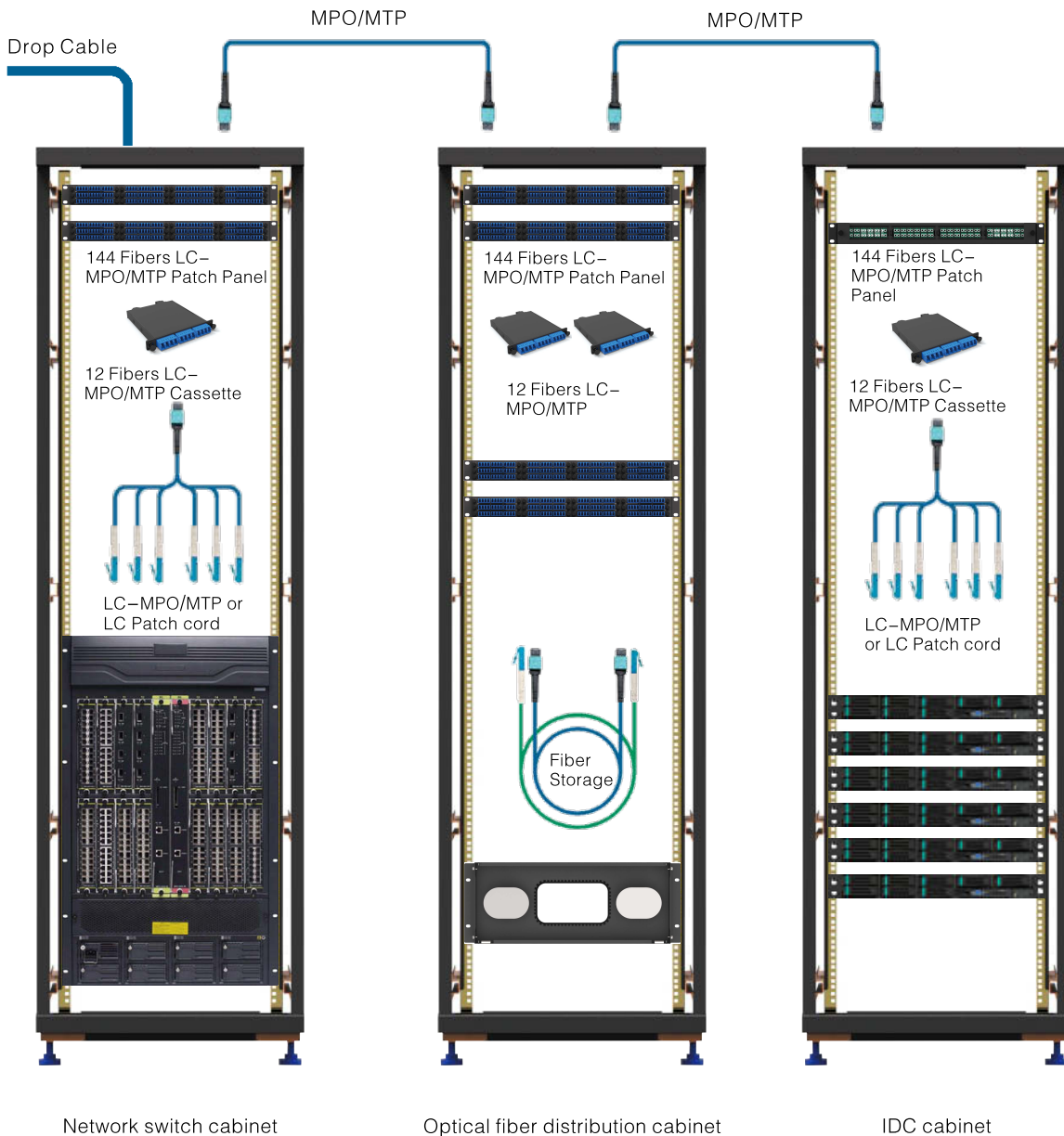# FastLink^{TM}Solution–Medium and Compact Data Center

The medium and compact data center fiber management solution adopts MPO/MTP to connect cabinets. It's convenient to operate by LC-MPO/MTP connection in network switch cabinet and IDC cabinet. This solution saves cables, is convenient for installation and maintenance, compatible with various equipments.
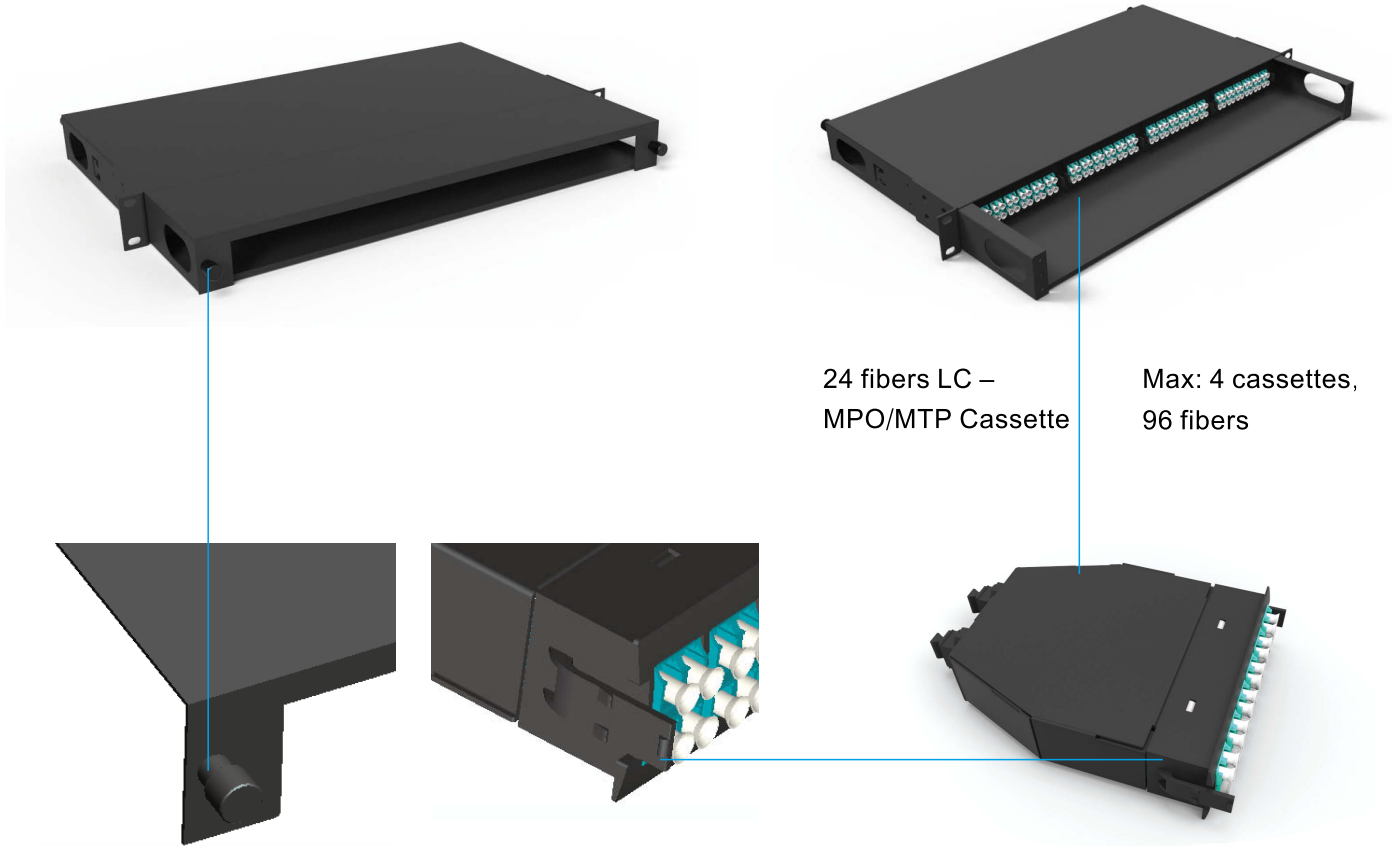
LC Patch Cord

MPO/MTP

MPO/MTP

Drop Cable

Cable Fixing

LC–MPO/MTP Patch Panel

96 Fibers LC–MPO/MTP Patch Panel

24 Fibers LC–MPO/MTP Cassette

24 Fibers LC–LC Cassette

24 Fibers LC–MPO/MTP Cassette

48/72/96 Fibers Patch Panel LC/SC/FC

LC–MPO/MTP or LC Patch cord

LC–MPO/MTP or LC Patch cord

96/288 Fibers LC–MPO/MTP Patch Panel

Fiber Storage

Cable inlet cabinet

Network switch cabinet

IDC cabinet

FastLink^{TM}Solution–Medium and Large Data Center

The medium and large data center fiber management solution adopts MPO/MTP to connect cabinets and adds optical fiber distribution to manage the optical fiber between network switch cabinet and IDC cabinet. Various MPO/MTP and LC patch panel can be installed in optical fiber distribution cabinet to simplify optical fiber management, which is optimized solution for medium and large data center.

Drop Cable

MPO/MTP   MPO/MTP

144 Fibers LC–MPO/MTP Patch Panel

12 Fibers LC–MPO/MTP Cassette

LC–MPO/MTP or LC Patch cord

144 Fibers LC–MPO/MTP Patch Panel

12 Fibers LC–MPO/MTP

Fiber Storage

144 Fibers LC–MPO/MTP Patch Panel

12 Fibers LC–MPO/MTP Cassette

LC–MPO/MTP or LC Patch cord

Network switch cabinet   Optical fiber distribution cabinet   IDC cabinet

LC-MPO/MTP Patch Panel

24 fibers LC –
MPO/MTP Cassette

Max: 4 cassettes,
96 fibers

The LC-MPO/MTP patch panel is a 19" standard structure with 1U, adopts 4 pieces 24 fibers LC-MPO/MTP cassettes to realize 96 fibers cabling capacity.

Feature:
*19 "Standard structure
*24 fibers standard LC-MPO/MTP cassette
*Compatible LC / MPO / MTP adapters
*Perfect optical fiber modular management
*Easy to install

24 fibers LC-MPO/MTP cassette is our standard product, can be taken out and maintained separately, easy to operate. It is the best solution for medium and large data center optical fiber management.

Application:
*Large capacity optical fiber cabling management
*Inlet and management of optical cables in medium and large data center
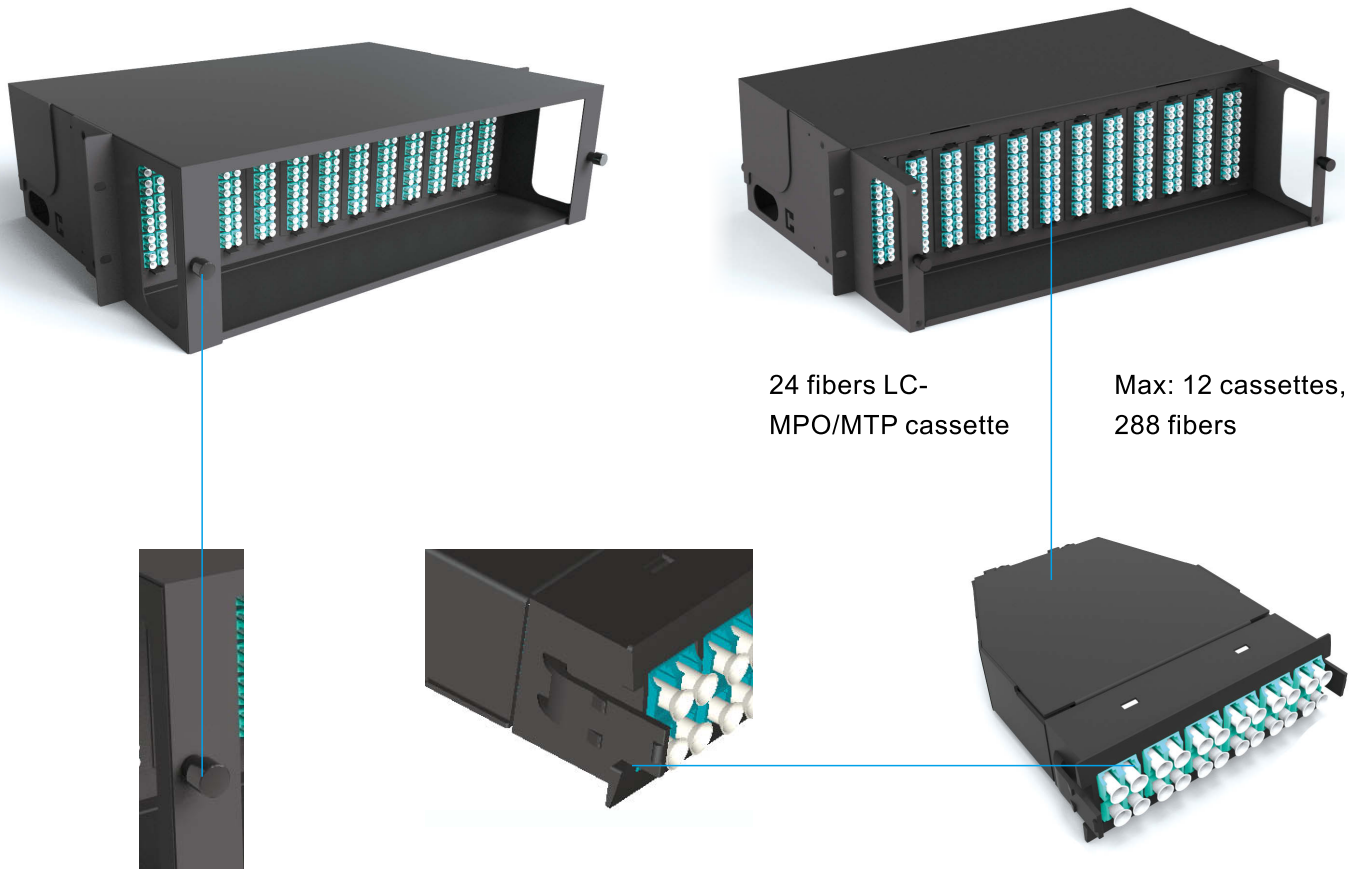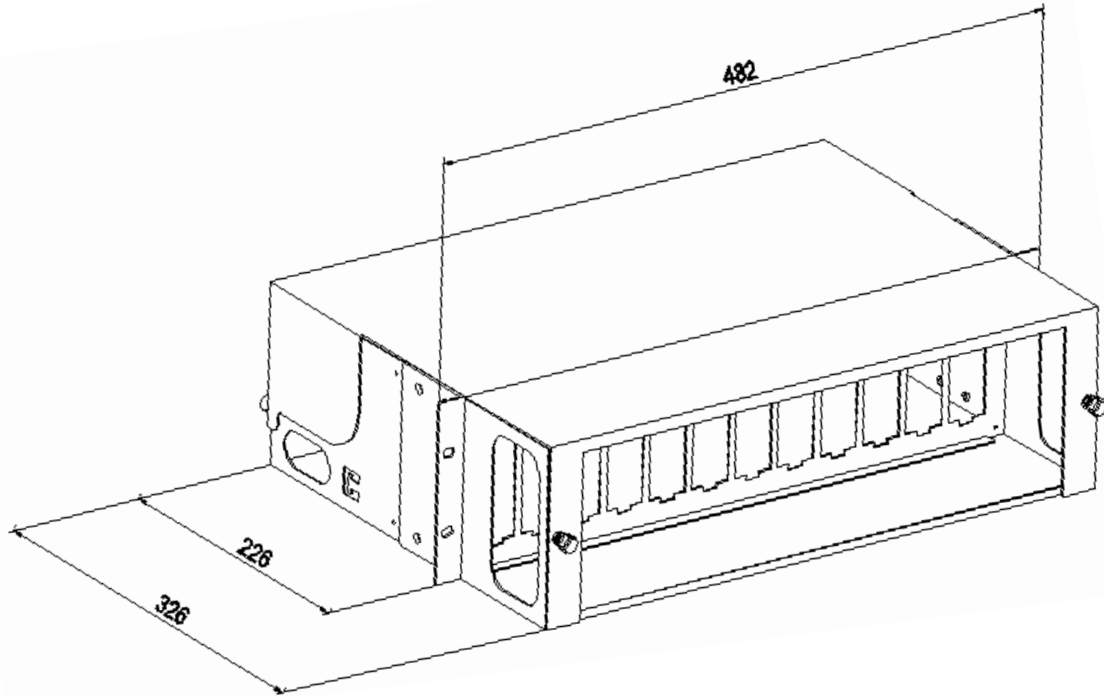*Railways, banks, enterprises, etc.

LC-MPO/MTP Patch Panel
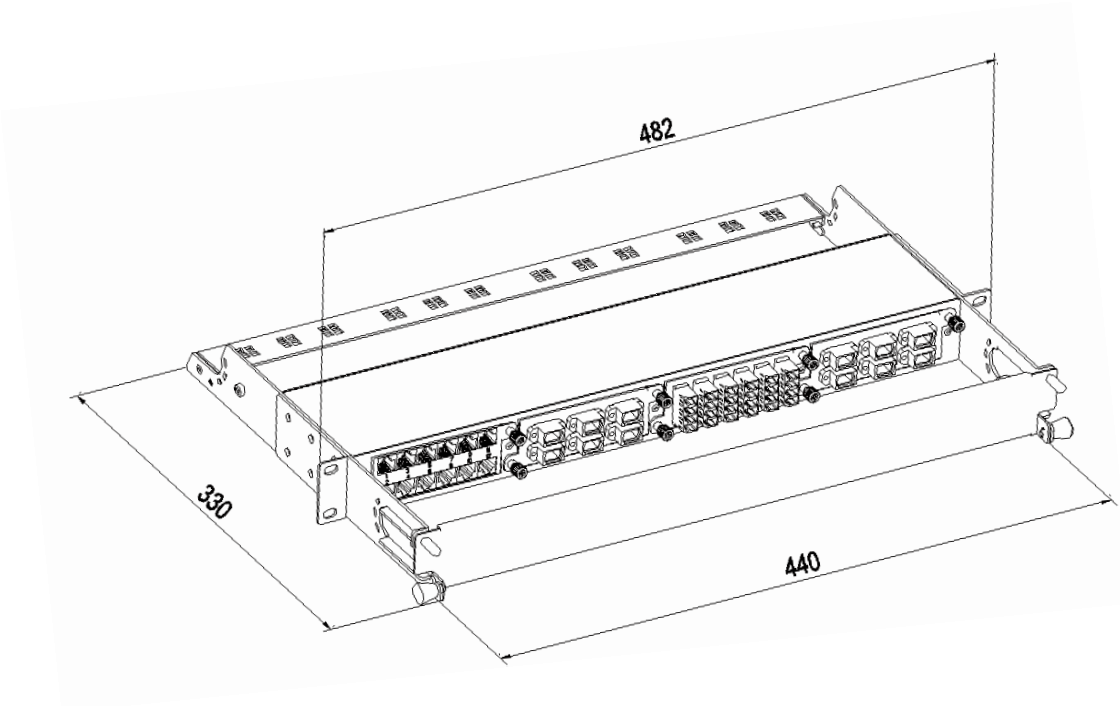
Height	Adapter type	Capacity(fibers)
1U	LC/MPO/MTP	96

Technical parameter

Technical parameter	Specification
Operating temperature	-20℃~70℃
Material	Metal (high quality aluminum plate), plastic (ABS)
Color	Black (or as required)
Capacity	96 fibers

288 Fibers LC-MPO/MTP Patch Panel

24 fibers LC-MPO/MTP cassette

Max: 12 cassettes, 288 fibers

The LC-MPO/MTP patch panel is a 19 "standard structure with 3U, adopts 12 pieces 24 fibers LC-MPO/MTP cassettes to realize 288 fibers cabling capacity.

Feature:
*19 "Standard structure
*24 fibers standard LC-MPO/MTP cassette
*Compatible LC / MPO / MTP adapters
*Perfect optical fiber modular management
*Easy to install

24 fibers LC-MPO/MTP cassette is our standard product, can be taken out and maintained separately, easy to operate. It is the best solution for medium and large data center optical fiber management.

Application:
*Large capacity optical fiber cabling management
*Inlet and management of optical cables in medium and large data center
*Railways, banks, enterprises, etc.

LC-MPO/MTP Patch Panel

Height	Adapter type	Capacity(fibers)
3U	LC/MPO/MTP	288

Technical parameter

Technical parameter	Specification
Operating temperature	-20℃~70℃
Material	Metal (quality aluminum), plastics (ABS)
Color	Black (or as required)
Capacity	288 fibers

LC-MPO/MTP Patch Panel

144 fibers high density of LC-MPO/MTP patch panel
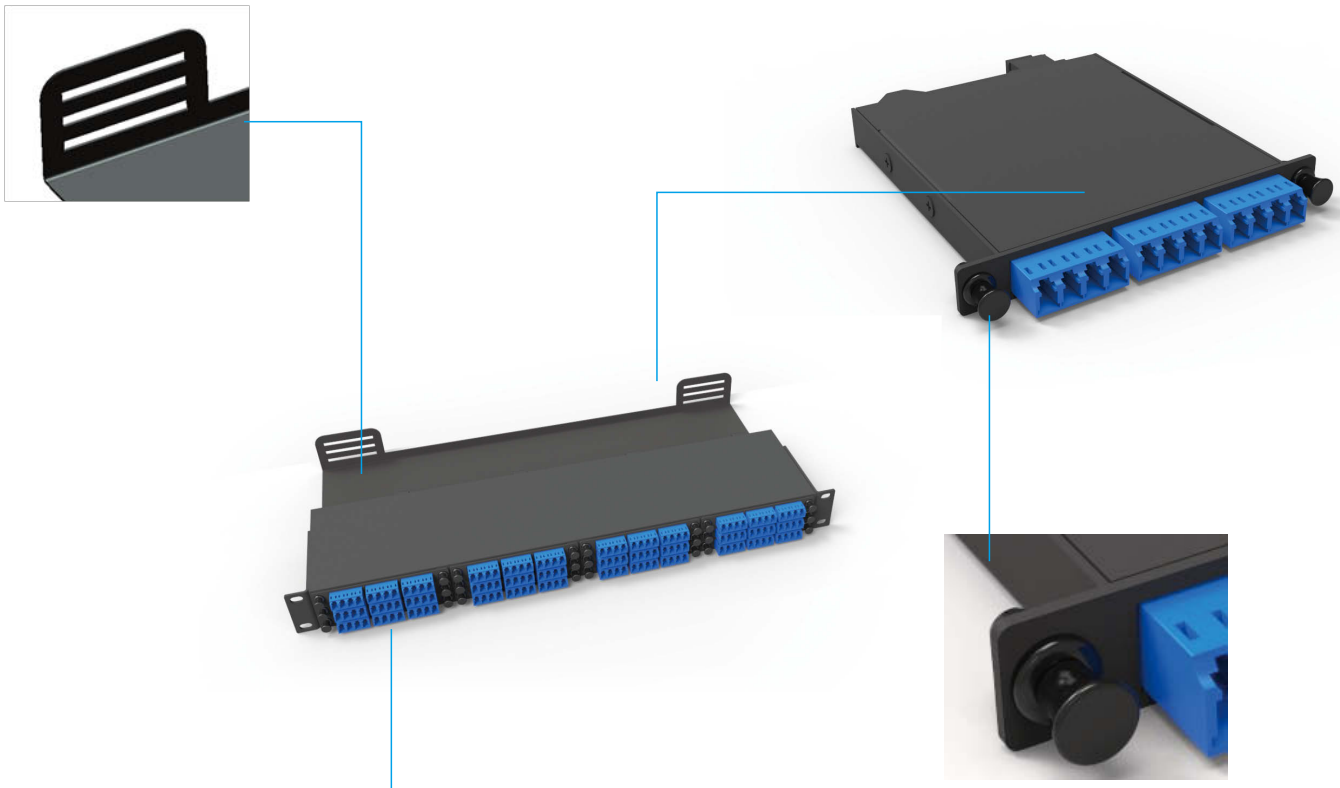
Open structure,
Max 12 pieces of 12 fibers LC-MPO/MTP cassettes, 144 fibers

The LC-MPO/MTP patch panel is a 19 "standard structure with 1U, adopts 12 pieces of 12 fibers LC-MPO/MTP cassettes to realize 288 fibers cabling capacity.

Feature:
*19 "Standard structure
*12fibers standard LC-MPO/MTP cassette
*Compatible LC / MPO / MTP adapters
*Perfect optical fiber modular management
*Easy to install

12 fibers LC-MPO/MTP cassette is our standard product, can be taken out and maintained separately, easy to operate. It is the best solution for medium and large data center optic fiber management.

Application:
*Large capacity optical fiber cabling management
*Inlet and management of optical cables in medium and large data centers
Railways, banks, enterprises, etc.

LC-MPO/MTP Patch Panel
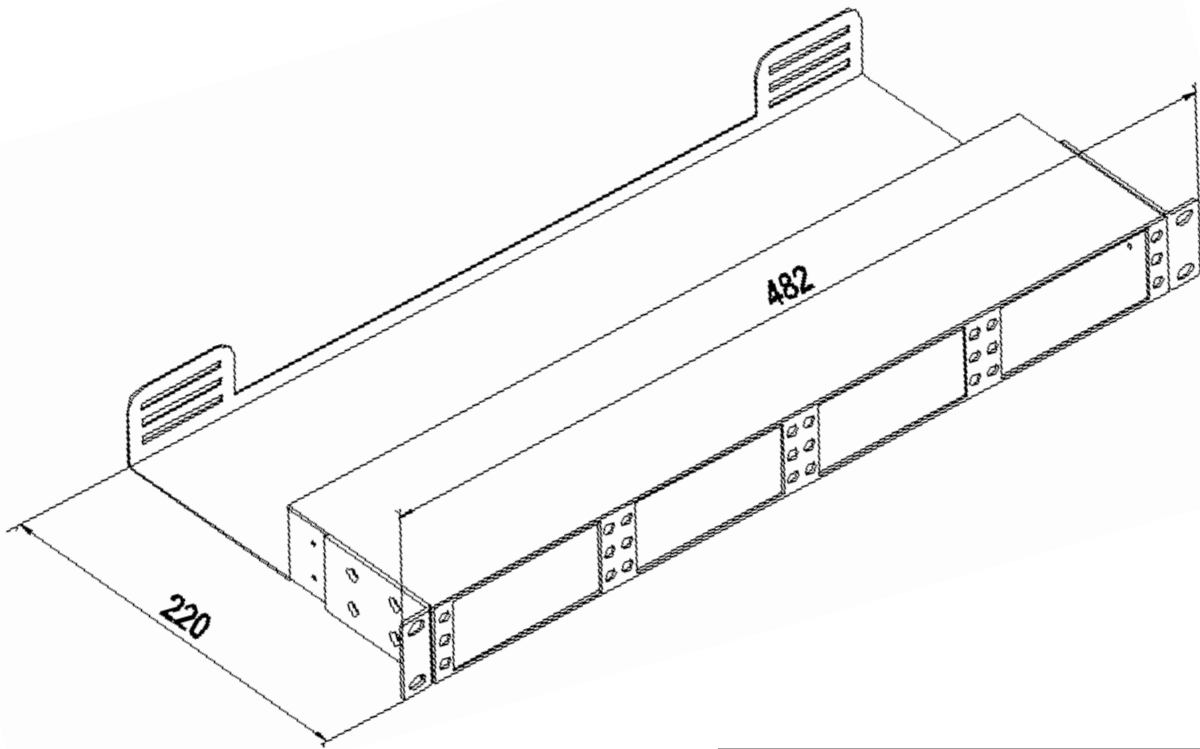
Height	Adapter type	Capacity(fibers)
1U	LC/MPO/MTP	144

Technical parameter

Technical parameter	Specification
Operating temperature	-20℃~70℃
Material	Metal (high quality cold rolled steel plate), plastic (ABS)
Color	Black (or as required)
Capacity	144 fibers

Fiber and Copper Integrated Patch Panel

Fiber and Cooper Integrated Patch Panel

RJ45 cassette

MPO/MTP cassette

MPO/MTP cassette

LC cassette
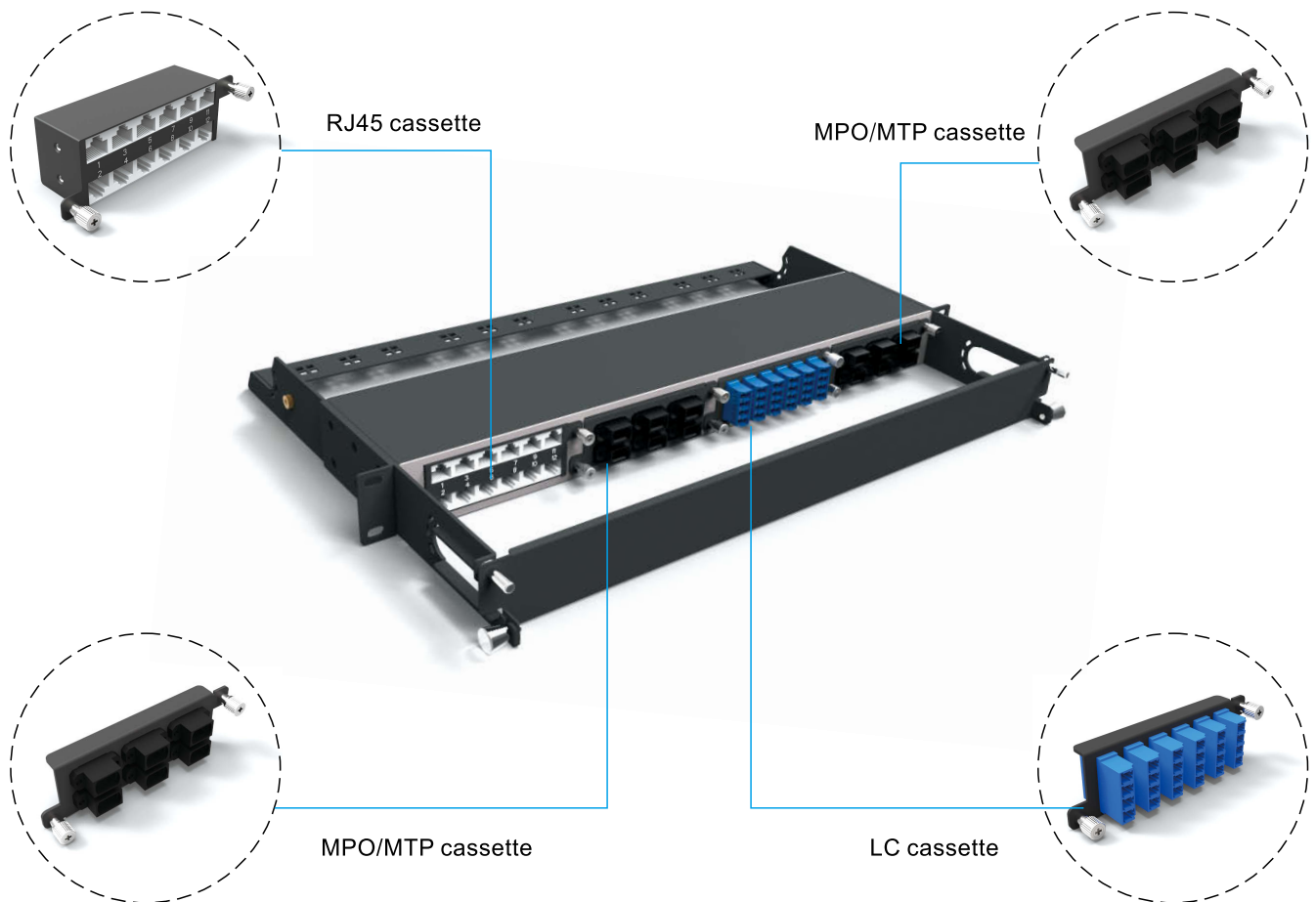
Fiber and copper integrated patch panel is a 19 "standard structure, to realize the integrated cabling management of various modules, such as RJ45 / MPO/MTP/LC / SC

Feature:
19 "standard structure
*Integrated cabling management for fiber and cooper modules
*Excellent fiber and copper management
*Revolving front panel structure for convenient maintenance and marking
* RJ45 /MPO/ MTP/ LC/SC modules available

Fiber and copper integrated patch panel is convenient cabling and suitable for ODF and data cabinet cabling management, also can be mixed with other equipment, which is the best solution for medium and compact data center cabling management.

Application :
*Small capacity fiber and copper cabling management
*Fiber and copper cabling management in medium and compact data center.
*Railways, banks, enterprises, etc.

Fiber and Copper Integrated Patch Panel
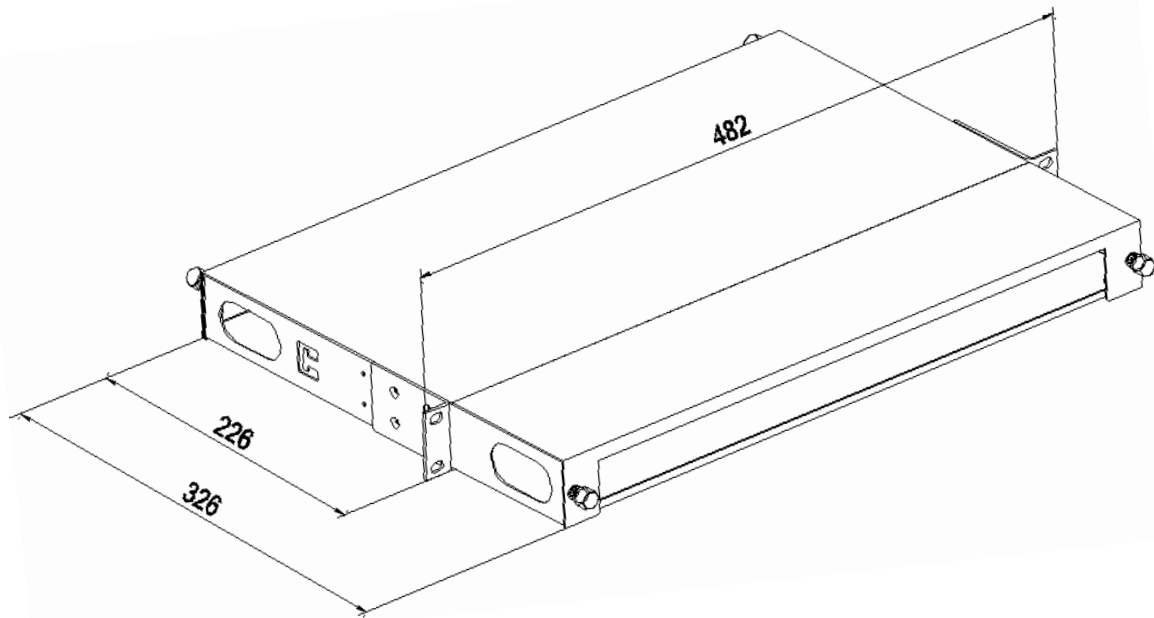
Height	Panel type	Capacity (ports)
1U	RJ45	48
1U	MTP	24

Technical parameter

Technical parameter	Specification
Operating temperature	-20℃~70℃
Material	Metal (high quality cold rolled steel plate), plastic (ABS)
Color	Black (or as required)
Capacity	Maximum 48 ports (RJ45) / maximum 24 ports (MTP) / maximum 96 fibers(LC)

LC Pliers for High Density Patch Panel

LC Pliers for High-Density LC Patch Panel
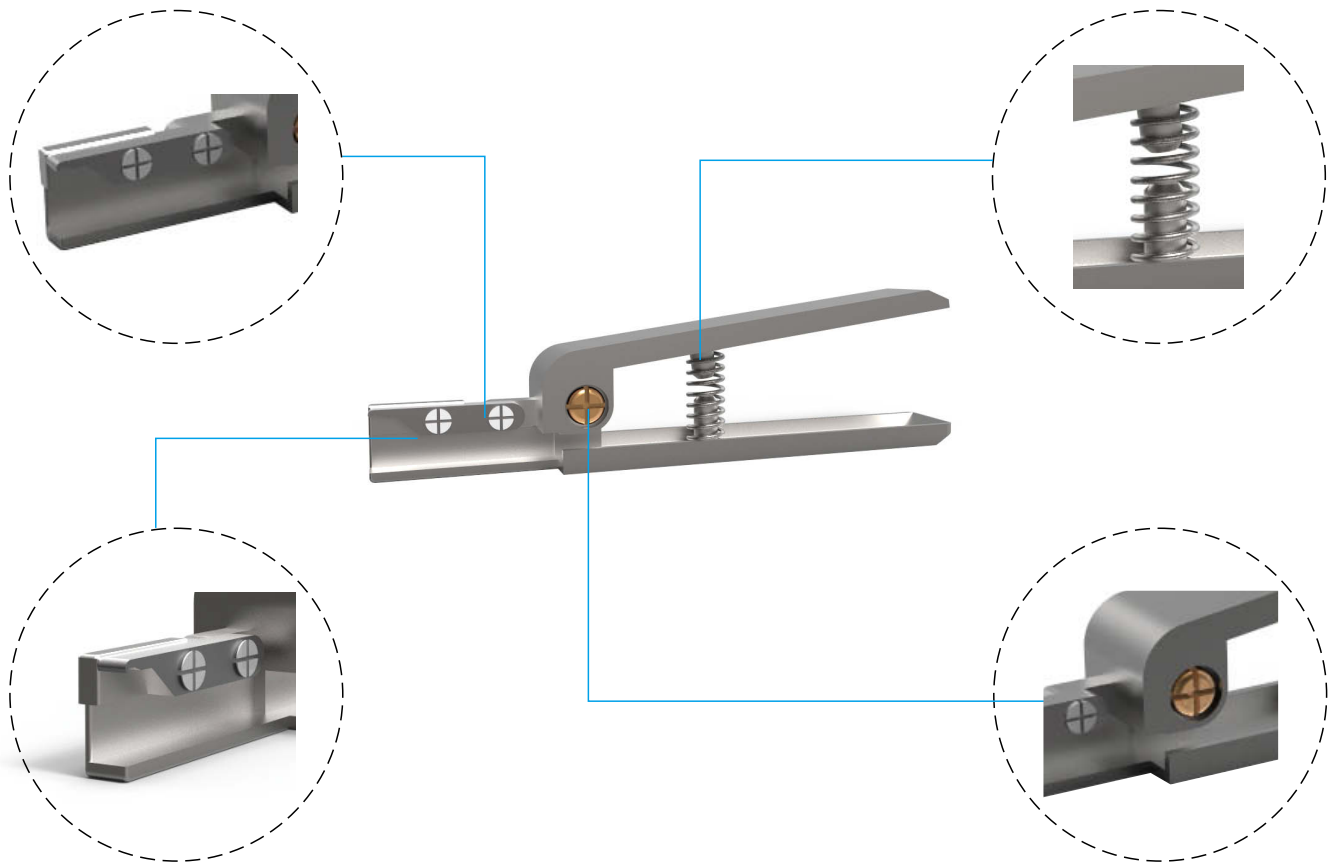
For deployed high-density LC patch panel, LC connectors are very difficult to operate by hands because of compact space.

Feature:
* Plug and pull out LC connector in high-density patch panel.
*Limiting retainer to protect connector during operation.
* Thin housing to avoid interfering other connectors

In order to solve the problem, Sindi research and develop LC pliers for high-density LC patch panel and applied for a patent.
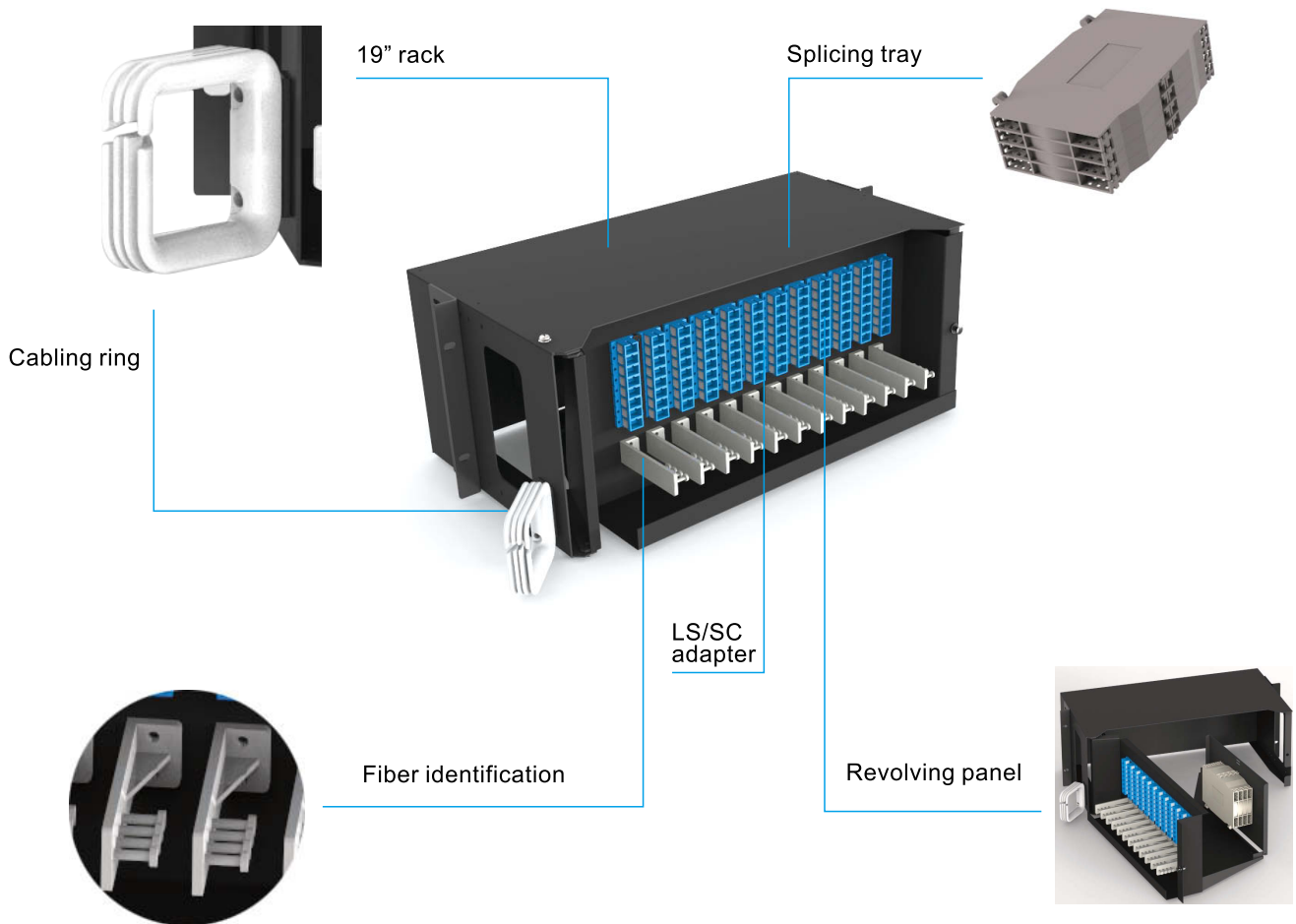
Application:
*Large capacity optical fiber management
* Medium and large data center fiber inlet.
*Railways, banks, enterprises, etc.

Optical Fiber Patch Panel

Inlet Optical Fiber Patch Panel

19" rack

Splicing tray

Cabling ring

LS/SC adapter

Fiber identification

Revolving panel

Inlet optical fiber patch panel is 19 "standard structure, separated cabling and splicing area, which achieves fiber inlet, coiling, splicing and management, various adaptors available.

Feature:
* 19 "standard structure
* Cabling and splicing management
* Perfect optical fiber management design
*Revolving panel structure for easy maintenance
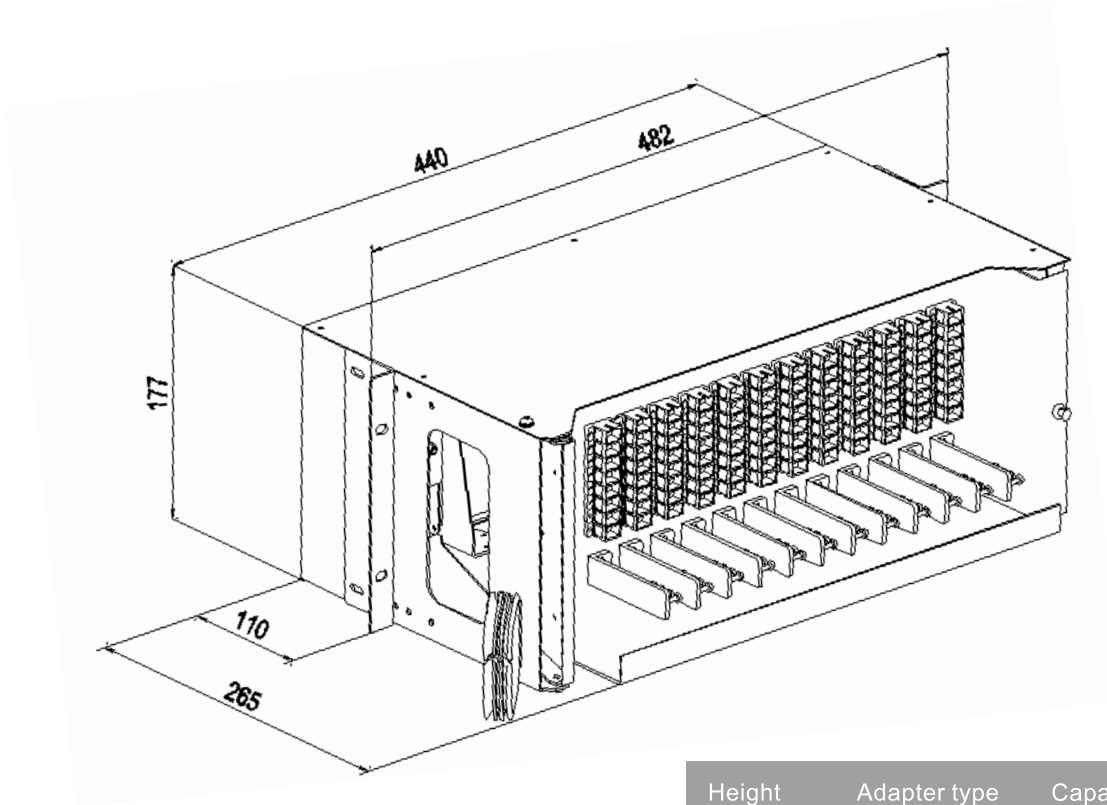* FC / SC / LC available

It can be applied in fiber management ODF cabinet or integrated with other devices, which is best choice in medium and compact data center.

Application:
* Large capacity optical fiber cabling management
*Medium and compact data center optical fiber inlet management
*Railways, banks, enterprises, etc.

Optical Fiber Patch Panel

Height	Adapter type	Capacity (fibers)
4U	FC/SC	96

Technical parameter

Technical parameter	Specification
Operating temperature	-20℃~70℃
Material	Metal (high quality cold rolled steel plate), plastic (ABS)
Color	Black (or as required)
Capacity	Maximum 96 fibers (LC), maximum 96 fibers (FC / SC)

Optical Fiber Patch Panel

Optical Fiber Patch Panel for Switch and Server

Storage

Fiber distribution

Cable crossing

Revolving panel
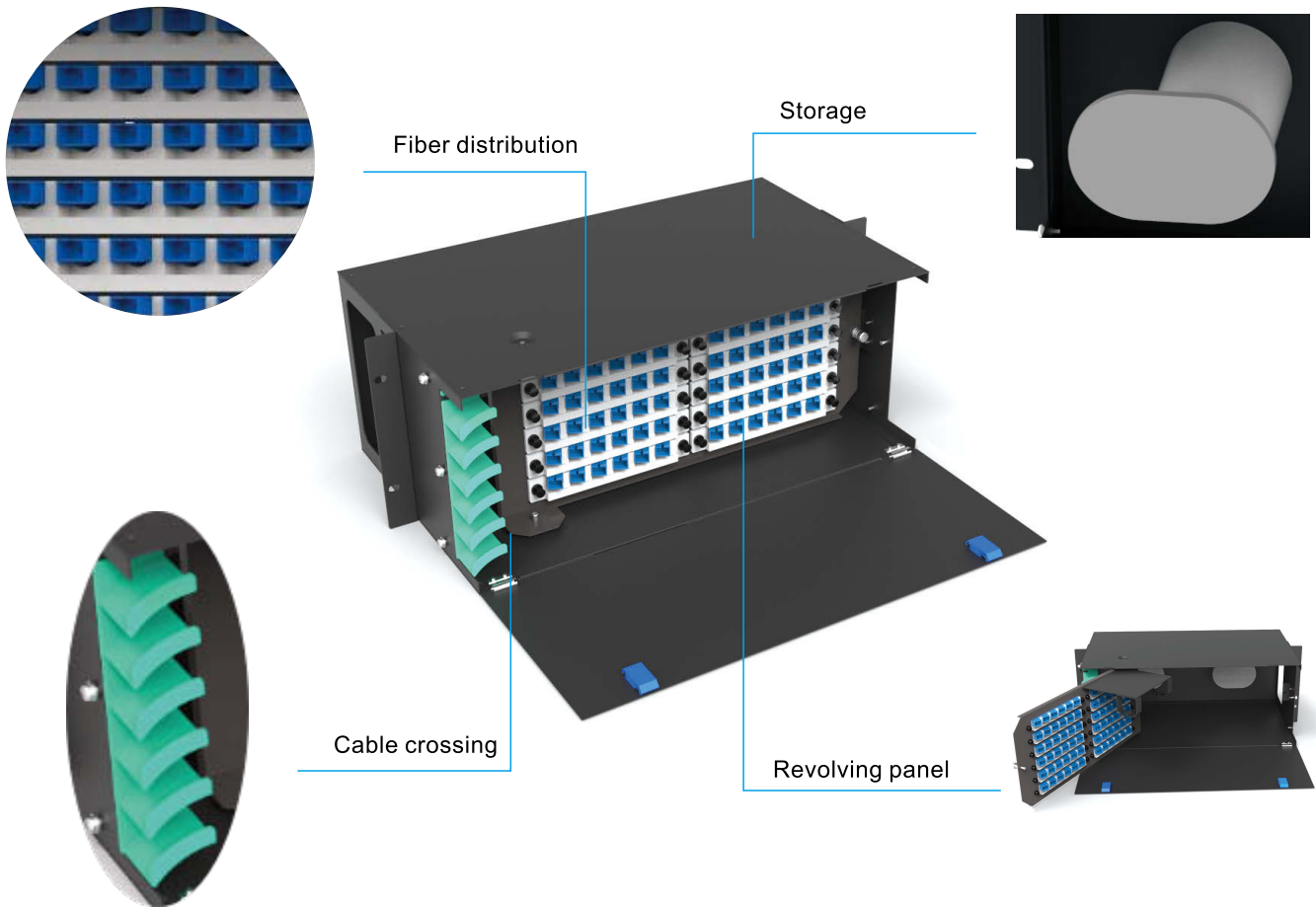
Optical fiber patch panel for switch and server is 19" standard structure, separated cabling and splicing area, which achieves fiber inlet, coiling, splicing and management, various adaptors available.

Feature:
* 19 "standard structure
* Cabling and splicing management
* Perfect optical fiber management design
*Revolving panel structure for easy maintenance
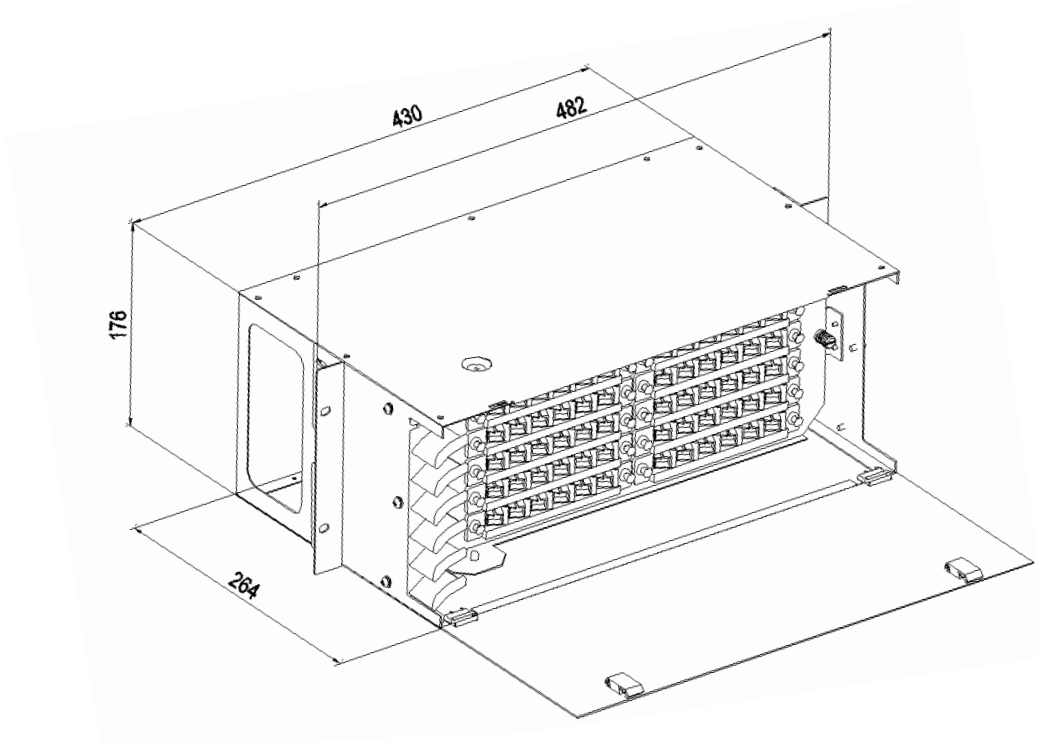*FC / SC / LC available

It can be applied to fiber management ODF cabinet or integrated with other devices, which is best solution in medium and small data center.

Application:
* Large capacity optical fiber cabling management
*Medium and compact data center optical fiber inlet management
*Railways, banks, enterprises, etc.

Traditional Optical Fiber Patch Panel

Height	Adapter type	Capacity (fibers)
4U	FC/SC	72
4U	LC	72/144

Technical parameter

Technical parameter	Specification
Operating temperature	-20℃~70℃
Material	Metal (high quality cold rolled steel plate), plastic (ABS)
Color	Black (or as required)
Capacity	Maximum 144 fibers (LC), maximum 72 fibers (FC / SC)

Optical Fiber Distribution Cabinet

Optical Fiber Distribution Cabinet

Optical fiber distribution cabinet adopts 19 " standard structure, which achieves fiber inlet, coiling, splicing and management, various MPO/MTP, LC, SC and etc. modules available.

Feature:
* 19 "standard structure
*Modular cabling management
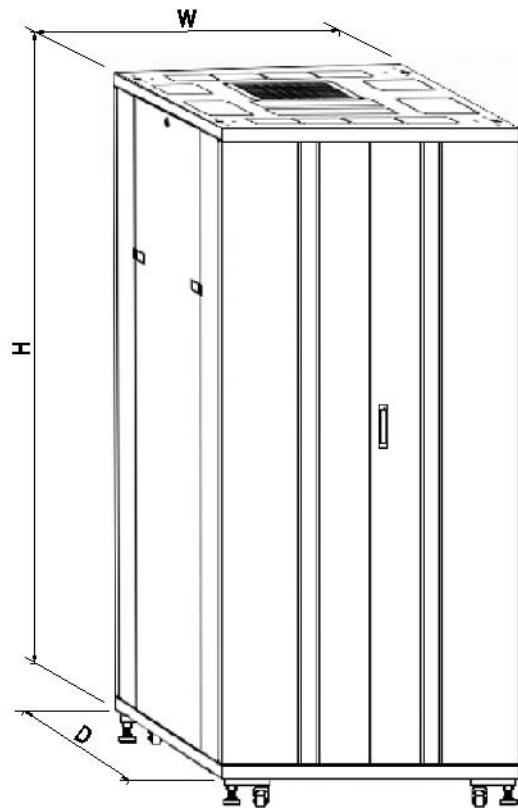* Perfect optical fiber management design

It is convenient for cabling management, which is the best solution in medium and compact data center.

Application:
*Large capacity optical fiber cabling management
*Medium and compact data center optical fiber inlet management
*Railways, banks, enterprises, etc.

Optical Fiber Distribution Cabinet

H(mm)	W(mm)	D(mm)
2000(42U)	900	600

Technical parameter

Technical parameter	Specification
Operating temperature	-20℃~70℃
Material	Metal (high quality cold rolled steel plate), plastic (ABS)
Color	Black (or as required)

IDC Cabinet

IDC cabinet adopts 19" standard structure, which achieves sever, equipment, optical fiber cabling and storage, PDU, cooling and etc. integrated management.

Feature:
* 19 "standard structure
*Modular cabling management
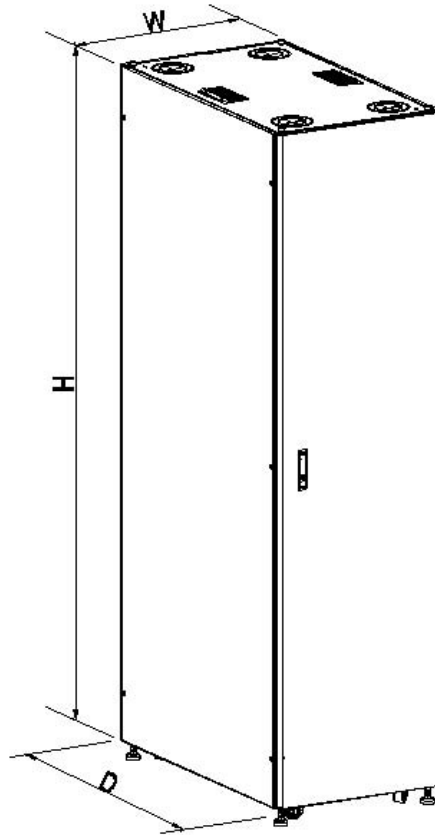* Perfect design for PDU and optical fiber management

It is convenient for cabling management, which is best solution for cabling and electric equipment management in data center.

Application:
*Small capacity optical fiber management
* Cabling management in data center
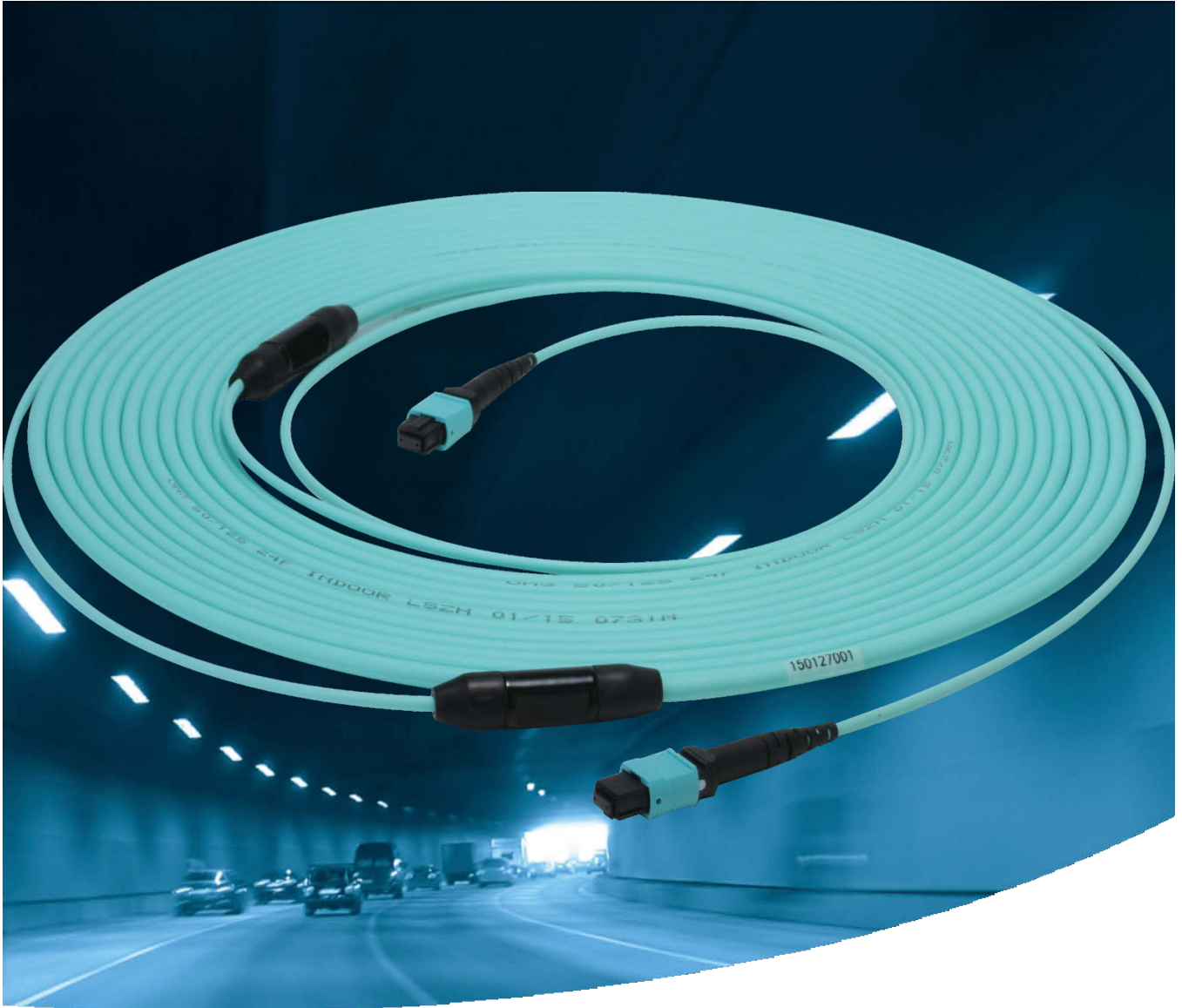*Railways, banks, enterprises, etc.

IDC Cabinet

H(mm)	W(mm)	D(mm)
2200(47U)	600	800
2000(42U)	600	800
2200(47U)	600	1000
2000(42U)	600	1000

Technical parameter

Technical parameter	Specification
Operating temperature	-20℃~70℃
Material	Metal (high quality cold rolled steel plate), plastic (ABS)
Color	Black (or as required)

MPO/MTP Trunk

Application:

◆ Wired satellite TV system

◆ Telecom operator

◆ Optical fiber network

◆ FTTH

◆ High-Speed transport system

◆ Test device

◆ Data Center

Feature：

◆ Various shaped connectors

◆ High-density

◆ Low insertion Loss

◆ High return loss

◆ Cable diameter: 3.0mm,3.6mm,4.5mm
and etc. available

◆ Singlemode and Multimode

Optical performance：

Parameter	Singlemode	Multimode
Low Insertion Loss	≤0.35dB	≤0.35dB
Standard Insertion Loss	≤0.75dB	≤0.6dB
Return Loss	≥50dB	≥20dB
Operation Temperature	-40℃~+80℃	-40℃~+80℃

Order guide：

MPO/MTP-Male/APC-MPO/MTP-Female/APC-SMφ0.91LSZH

Item	Unit	Specification
1.Connector Type	—	MPO/MTP-Female, MPO/MTP-Male
2 Ferrule End Face	– – –	PC, APC
3. Connector Type	– – –	MPO/MTP-Female, MPO/MTP-Male
4.Furrel End Face	– – –	PC, APC
5.Fiber	– – –	SM(OS1,OS2), MM(OM1,OM2,OM3,OM4)
6.Diameter	mm	φ3,φ3.6,φ4.5…
7.Length	M	L=1,2,3,4,5…….
8. Sheath	—	LSZH,OFNR.OFNP,PVC

MPO/MTP-LC Harness

Application:

◆ Wired satellite TV system

◆ Telecom operator

◆ Optical fiber network

◆ FTTH

◆ High-Speed transport system

◆ Test device

◆ Data Center

Feature：

◆ Various shaped connectors

◆ High-density

◆ Low insertion Loss

◆ High return loss

◆ Cable diameter: 3.0mm,3.6mm,4.5mm and etc.
available
Singlemode and Multimode

Optical performance：

MPO/MTP	Singlemode	Multimode
Low Insertion Loss	≤0.35dB	≤0.35dB
Standard Insertion Loss	≤0.75dB	≤0.6dB
Return Loss	≥50dB	≥20dB
Operating Temperature	-40℃~+80℃	-40℃~+80℃

LC		Multimode	Single-mode		
Insertion Loss	dB	≤0.2dB	≤0.3dB		
Return Loss	dB	≥20dB	PC	UPC	APC
			≥45dB	≥50dB	≥60dB
Operation Temperature	℃	-40℃~+80℃			

Order guide：

MPO/MTP-male/APC-LC-Uniboot PC-SMφ0.91LSZH

Item	Unit	Specification
1.Connector Type	—	MPO/MTP-Female, MPO/MTP-Male
2 Ferrule End Face	– – –	PC, APC
3. Connector Type	– – –	LC,SC,FC
4.Furrel End Face	– – –	PC,APC
5.Fiber	– – –	SM(OS1,OS2),MM(OM1,OM2,OM3,OM4)
6.Diameter	mm	φ0.9,φ1.6,φ2.0, φ3.0,φ3.6…
7.Length	M	L=1,2,3,4,5…….
8. Sheath	—	LSZH,OFNR.OFNP,PVC

MPO/MTP-LC Harness

Optical performance

MPO/MTP	Singlemode	Multimode
Low Insertion Loss	≤0.35dB	≤0.35dB
Standard Insertion Loss	≤0.75dB	≤0.6dB
Return Loss	≥50dB	≥20dB
Operating Temperature	-40℃~+80℃	-40℃~+80℃

LC		Multimode	Single-mode		
Insertion Loss	dB	≤0.2dB	≤0.3dB		
Return Loss	dB	≥20dB	PC	UPC	APC
			≥45dB	≥50dB	≥60dB
Operation Temperature	℃	-40℃~+80℃			

IP68
Waterproof cable

◆ IP68 dustproof and waterproof in harsh environment
◆ Simple to assemble, easy to connect
◆ Chemical resistance
◆ Operation temperature:-40℃~+80℃
◆ Cost effective control for solution
◆ IP68

Optical performance

MPO/MTP	Singlemode	Multimode
Low Insertion Loss	≤0.35dB	≤0.35dB
Standard Insertion Loss	≤0.75dB	≤0.6dB
Return Loss	≥50dB	≥20dB
Operating Temperature	-40℃~+80℃	-40℃~+80℃

SC/APC Connector

	Typical	Standard
Insertion Loss	≤0.1dB	≤0.3dB
Return Loss	≥60dB	
Operating Temperature	-40℃~+80℃	

LC/ APC Connector

	Typical	Standard
Insertion Loss	≤0.1dB	≤0.3dB
Return Loss	≥60dB	
Operating Temperature	-40℃~+80℃	

Patch cord

Optical performance

Connector Type		FC/UPC、FC/APC、SC/UPC、SC/APC、ST/PC、MU/PC、MU/APC、LC/APC、		
Fiber	—	Multi-mode	Single-mode	
Sheath	– – –	PVC	LSZH	
Insertion Loss	dB	≤0.2dB	≤0.3dB	
Return Loss	dB	≥20dB	PC	UPC	APC
			≥45dB	≥50dB	≥60dB
Operation Temperature	℃	-40℃~+80℃		

LC-LC Trunk Harness

Application :
◆ Gigabit Ethernet
◆ Cable TV and Multimedia
◆ Optical fiber test equipment
◆ Telecom network

Feature:
◆Good 3D
◆Reliable
◆Low Insertion Loss
◆High Return Loss

Optical performance

Connector Type		SC/LC/FC/ST		
Fiber	—	Multi-mode	Single-mode	
Sheath	– – –	PVC	LSZH	
Insertion Loss	dB	≤0.2dB	≤0.3dB	
Return Loss	dB	≥20dB	PC	UPC	APC
			≥45dB	≥50dB	≥60dB
Operation Temperature	℃	-40℃~+80℃		

Order guide:

LC/UPC-LC/UPC-MMφ3.0 12 L

Item	Unit	Specification
1.Connector Type	—	LC,SC,FC,ST
2 Ferrule End Face	– – –	PC,UPC,APC
3. Connector Type	– – –	LC,SC,FC,ST
4.Furrel End Face	– – –	PC, APC
5.Fiber	– – –	SM(OS1,OS2),MM(OM1, OM2,OM3,OM4)
6.Diameter	mm	φ3.0,φ4.8,φ5.2, φ6.8…
7.Length	M	L=1,2,3,4,5……
8. Sheath	—	LSZH,OFNR.OFNP,PVC