



High Technology

TECH LINE

PRODUCT CATALOG **2026**

FIBER OPTIC & NETWORK SOLUTIONS

www.techlinefactory.com

Fiber Distribution Frame

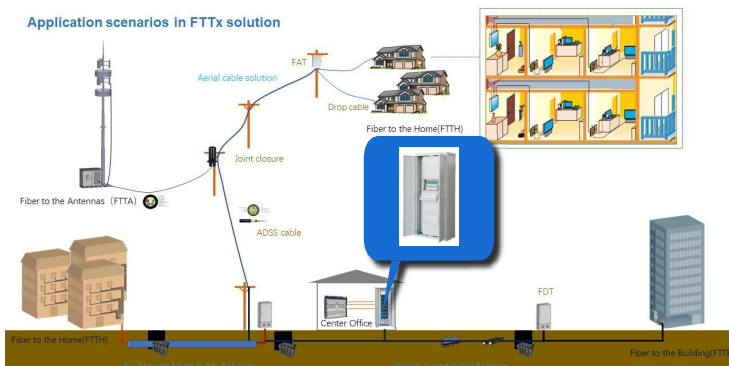
General Description

As a necessary device in the optical fiber communication system, the optical distribution frame (ODF) is connected with the external cable at one end and with the optical communication equipment at the other end in the optical fiber communication system for termination and distribution of the local side trunk optical cable to easily achieve connection, distribution and dispatching of the optical fiber circuit. The main functions of the ODF include optical cable fixing, stripping and protection, optical fiber terminating and dispatching, optical cable fiber core, pigtail and jumper protection and storage..

Features

Features

- It is subject to full modular design and adopts a 12-core welding module; every 72 cores are considered as a unit sub-frame;
- Clearly identifiable; connection of each core of optical fiber is clearly marked;
- It may adopt a wall-supported, back-to-back or side combined frame installation (set with front and rear, and left and right jumper holes), and can be completely operated from the front side;
- Reliable optical fiber fixing, stripping and protective grounding devices;
- Provides optimal management solution for incoming optical cable and outgoing pigtail, well positioned for easy searching;
- Sub-frame with door may be operated separately;
- Incoming and outgoing cables of optical cable and pigtail are independent and non-interfering ;



Model NO.	Dimension	Capacity	Material
TL-FDF-720F	2000x900x300	720f	Cold-rolled steel
TL-FDF-648F	2200x900x300	648f	Cold-rolled steel
TL-FDF-864F	2600x900x300	864f	Cold-rolled steel



Techline Data Center

The Optical Distribution Frame (ODF) is a centralized fiber management system used in data centers and telecom rooms to terminate, organize, and distribute optical fiber cables. It provides secure housing for splicing, patching, and storage of fiber connections.

ODFs support both single mode (OS2) and multimode (OM1/OM2/OM3/OM4/OM5) fibers and are designed with modular structures for scalability. They include cable routing, bending radius control, and protection features to ensure signal integrity and easy maintenance.

A Fiber Patch Cord is a pre-terminated fiber optic cable used to connect equipment or patch panels within the data center.

Patch cords are available in:

Single Mode (OS2) – typically yellow jacket, used for long-distance/high bandwidth

Multimode (OM1–OM5) – typically orange/aqua/violet jackets for short-distance high-speed networks

They come with various connector types such as LC, SC, FC, and ST, and in simplex or duplex configurations.

MPO Ultra HD Patch Panel



MPO modules and splice panel
Metal Slide rails
MAX 144F in 1U
Plug-in ABS Cassette for easy deployment
Customized LOGO is available



MPO modules and splice panel
Metal Slide rails
MAX 288F in 2U
Plug-in ABS Cassette for easy deployment
Customized LOGO is available



MPO modules and splice panel
Metal Slide rails
MAX 576F in 4U
Plug-in ABS Cassette for easy deployment
Customized LOGO is available



MPO modules and splice panel
Fixed and simple design
MAX 96F in 1U
Plug-in ABS Cassette for easy deployment
Front Cable Management tray is optional



MPO modules and splice panel
Fixed and simple design
MAX 288F in 3U
Plug-in ABS Cassette for easy deployment
Customized LOGO is available



MPO modules and splice panel
Fixed and simple design
MAX 384F in 4U
Plug-in ABS Cassette for easy deployment
Transparent Front door

Techline Data Center



MPO Pre-terminated solution
Sliding and Tilt-down Drawer for Easy Operation
MAX 96F in 1U
Plug-in ABS Cassette for easy deployment
Customized LOGO is available

MPO Pre-terminated solution
MAX 96F in 1U
Metal Slide rails
Plug-in ABS Cassette for easy deployment
Tool-less flippable Top Cover for Easier Cable Management

MPO Pre-terminated solution
MAX 192F in 2U
Fixed and simple design
Plug-in ABS Cassette for easy deployment
Customized LOGO is available

Fiber Splice PatchPanel



Flexible for fiber patch or Splice
Fixed and simple design
MAX 72F in 1U
D type Splice Tray+125 Adapter Plate
Customized LOGO is available

Flexible for fiber patch or Splice
Fixed and simple design
MAX 96F in 1U
H type Splice Tray+92 Adapter Plate
Customized LOGO is available

Flexible for fiber patch or Splice
Metal Slide rails
MAX 72F in 1U
D type Splice Tray+125 Adapter Plate
Tool-less flippable Top Cover for Easier Cable Management

Flexible for fiber patch or Splice
Fixed and simple design
MAX 144F in 3U
G type Splice Tray+92 Adapter Plate
Customized LOGO is available

Flexible for fiber patch or Splice
Metal Slide rails
MAX 48F in 1U
C Type Splice Tray+175 Adapter plate
Customized LOGO is available

Flexible for fiber patch or Splice
Metal Slide rails
MAX 48F in 1U
C Type Splice Tray+125 Adapter Plate
Customized LOGO is available

Techline Data Center



Flexible for fiber patch or Splice
Metal Slide rails
MAX 192F in 2U
H Type Splice Tray+175 Adapter plate
Customized LOGO is available



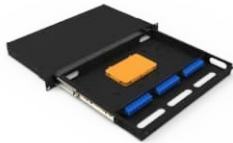
Flexible for fiber patch or Splice
Metal Slide rails
MAX 96F in 2U
C Type Splice Tray+175 Adapter plate
Customized LOGO is available



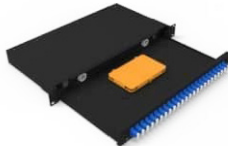
Flexible for fiber patch or Splice
Metal Slide rails
MAX 96F in 2U
C Type Splice Tray+125 Adapter plate
Customized LOGO is available



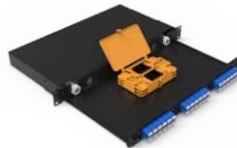
Flexible for fiber patch or Splice
Metal Slide rails
MAX 48F in 1U
C Type Splice Tray+175 Adapter plate
Customized LOGO is available



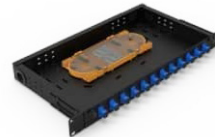
Flexible for fiber patch or Splice
Metal Slide rails
MAX 72F in 1U
D Type Splice Tray+109 Adapter plate
Customized LOGO is available



Flexible for fiber patch or Splice
Drawer type
MAX 48F in 1U
With cable gland for better cable fix
Customized LOGO is available



Flexible for fiber patch or Splice
Drawer type
MAX 72F in 1U
With cable gland for better cable fix
Customized LOGO is available



Flexible for fiber patch or Splice
Fixed and simple design
MAX 48F in 1U
C Type Splice Tray+Single Adapter plate
Customized LOGO is available

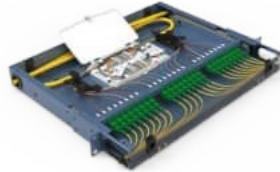


Flexible for fiber patch or Splice
Fixed and simple design
MAX 48F in 1U
C Type Splice Tray+175 Adapter plate
Customized LOGO is available

Techline Data Center



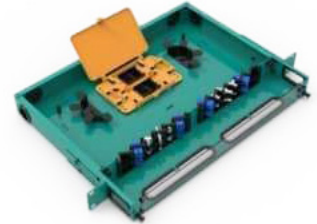
Flexible for fiber patch or Splice
Fixed and simple design
MAX 96F in 2U
C Type Splice Tray+175 Adaptor plate
Customized LOGO is available



Flexible for fiber patch or Splice
Metal Slide rails
MAX 72F in 1U
G type Splice tray + LGX adaptor plate
Transparent Front Panel



Flexible for fiber patch or Splice
Metal Slide rails
MAX 96F in 1U
H type Splice tray + LGX adaptor plate
Customized LOGO is available



Flexible for fiber patch or Splice
Fixed and simple design
MAX 48F in 1U
Angle plastic Panel which is better for fiber radius
Transparent Front Panel



MPO modules and splice panel
Fixed and simple design
MAX 144F in 1U
Plug-in ABS Cassette for easy deployment
Transparent Front Panel



MPO modules and splice panel
Fixed and simple design
MAX 288F in 2U
Plug-in ABS Cassette for easy deployment



MPO modules and splice panel
Fixed and simple design
MAX 576F in 4U
Plug-in ABS Cassette for easy deployment

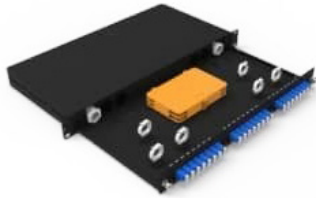


Flexible for fiber patch or Splice
Fixed and simple design
MAX 96F in 2U
G type Splice tray + LGX adaptor plate
Transparent Front Panel



Flexible for fiber patch or Splice
Triple section stainless steel slide rail
MAX 144F in 2U
H type Splice tray + LGX adaptor plate
Transparent Front Panel

Techline Data Center



Flexible for fiber patch or Splice
 Drawer type
 MAX 48F in 1U
 C Type Splice Tray+LGX Adapter plate
 With cable gland for better cable fix



Flexible for fiber patch or Splice
 Drawer type
 MAX 144F in 2U
 H type Splice Tray+Unibody Adapter Plate
 Customizable LOGO



Flexible for fiber patch or Splice
 Drawer type
 MAX 48F in 1U
 C type Splice Tray+Unibody Adapter Plate
 With cable gland for better cable fix



Flexible for fiber patch or Splice
 Metal Slide rails
 MAX 48F in 1U
 C Type Splice Tray+175 Adapter plate



Flexible for fiber patch or Splice
 Sliding and Tilt-down Drawer for Easy Operation
 MAX 96F in 1U
 H type Splice Tray+Unibody Adapter Plate
 Customized LOGO is available



Flexible for fiber patch or Splice
 Sliding and Tilt-down Drawer for Easy Operation
 MAX 96F in 1U
 H type Splice Tray+92 Adapter plate
 Customized LOGO is available



Standard 19" installation
 Hybrid Fiber & Copper Application
 Easy switch the copper & fiber with transfer kit
 Plug-in cassettes for easy deployment
 With adjustable cable holder for fixing better



Flexible for fiber patch or Splice
 Metal Slide rails
 MAX 48F in 1U
 C type Splice Tray+Unibody Adapter Plate



Flexible for fiber patch or Splice
 Fixed and simple design
 MAX 48F in 1U
 With cable gland for better cable fix
 Customized LOGO is available

Techline Data Center



Flexible for fiber patch or Splice
Rotary drawer with flippable cover
MAX 48F in 1U
C Type Splice Tray+165 Adapter plate
Customized LOGO is available



Flexible for fiber patch or Splice
Fixed and simple design
MAX 288F in 4U
D type Splice Tray+Module Plate
Transparent Front Panel



High density Splicing application
Metal housing
Easy plug and play with one hand

Fiber Patch Cord



LC-LC Duplex Patch cord
Available for Single Mode & Multi Mode fiber
Single Mode:IL ≤ 0.3dB/Multi Mode:IL ≤ 0.2dB
With PVC or LSZH cable
Vertical tensile strength ≥ 70N
Length can be customized



SC-SC Duplex Patch cord
Available for Single Mode & Multi Mode fiber
Single Mode:IL ≤ 0.3dB/Multi Mode:IL ≤ 0.2dB
With PVC or LSZH cable
Vertical tensile strength ≥ 70N
Length can be customized



SC-ST Duplex Patch cord
Available for Single Mode & Multi Mode fiber
Single Mode:IL ≤ 0.3dB/Multi Mode:IL ≤ 0.2dB
With PVC or LSZH cable
Vertical tensile strength ≥ 70N
Length can be customized



SC-FC Duplex Patch cord
Available for Single Mode & Multi Mode fiber
Single Mode:IL ≤ 0.3dB/Multi Mode:IL ≤ 0.2dB
With PVC or LSZH cable
Vertical tensile strength ≥ 70N
Length can be customized



ST-ST Duplex Patch cord
Available for Single Mode & Multi Mode fiber
Single Mode:IL ≤ 0.3dB/Multi Mode:IL ≤ 0.2dB
With PVC or LSZH cable
Vertical tensile strength ≥ 70N
Length can be customized



SC-LC Duplex Patch cord
Available for Single Mode & Multi Mode fiber
Single Mode:IL ≤ 0.3dB/Multi Mode:IL ≤ 0.2dB
With PVC or LSZH cable
Vertical tensile strength ≥ 70N
Length can be customized

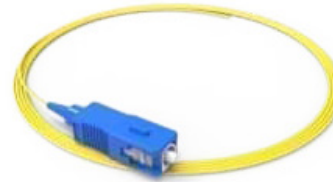
Techline Data Center

Fiber Pigtails



FC Pigtails

Available for Single Mode & Multi Mode fiber
Single Mode: $L \leq 0.3\text{dB}$ /Multi Mode: $L \leq 0.2\text{dB}$
With PVC or LSZH cable
Length can be customized



SC Pigtails

Available for Single Mode & Multi Mode fiber
Single Mode: $L \leq 0.3\text{dB}$ /Multi Mode: $L \leq 0.2\text{dB}$
With PVC or LSZH cable
Length can be customized



ST Pigtails

Available for Single Mode & Multi Mode fiber
Single Mode: $L \leq 0.3\text{dB}$ /Multi Mode: $L \leq 0.2\text{dB}$
With PVC or LSZH cable
Length can be customized



LC Pigtails

Available for Single Mode & Multi Mode fiber
Single Mode: $L \leq 0.3\text{dB}$ /Multi Mode: $L \leq 0.2\text{dB}$
With PVC or LSZH cable
Length can be customized

Techline Data Center

Fiber Adapters



Anti-Laser LC Duplex
Flangeless

- Internal Metal shutter
- With Grade A Ceramic Sleeve
- Unibody Housing
- Triple sides Tight Fix Clip
- Customized LOGO available



Anti-Laser LC Duplex
With Flange

- Internal Metal shutter
- With Grade A Ceramic Sleeve
- Unibody Housing
- Triple sides Tight Fix Clip
- Customized LOGO available



SC Simplex Flangeless

- With Grade A Ceramic Sleeve
- Unibody Housing
- Triple sides Tight Fix Clip
- Customized LOGO available



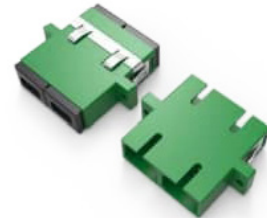
SC Simplex With Flange

- With Grade A Ceramic Sleeve
- Unibody Housing
- Triple sides Tight Fix Clip
- Customized LOGO available



SC Duplex Flangeless

- With Grade A Ceramic Sleeve
- Unibody Housing
- Triple sides Tight Fix Clip
- Customized LOGO available



SC Duplex With Flange

- With Grade A Ceramic Sleeve
- Unibody Housing
- Triple sides Tight Fix Clip
- Customized LOGO available

Fiber Distribution Cabinet

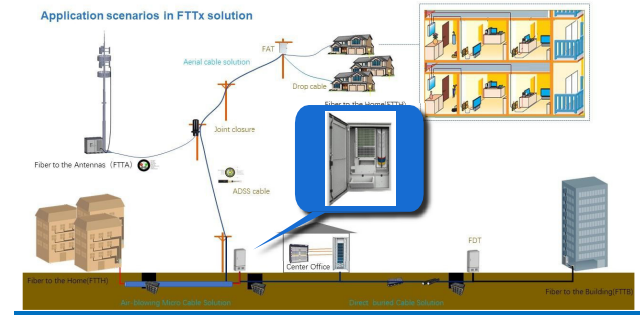
General Description

Outdoor Fiber Optic Cabinet (Stainless Steel) is designed for the connection between the Optical fiber cable and the main points, and it is a kind of port device. It has the function of direct or indirect connection, coiling, storage, fiber splitting, and dispatching on the fiber cable.

Cabinets are made of double side stainless steel, with the protection grade reaching IP65.

Features

- Solid and fully-closed structure.
- With advantages of nice performance of dust-proof
- Pleasing and neat appearance.
- Nice water- and dust-resistant performance.
- Three-point lock provided on every cabinet ensures safety of fibers
- Multifunction: various types of distribution units (DU) are available for making various combinations.
- Accommodates SC, FC and LC and ST adapters
- Earth protection provided for every incoming optical cable



Model NO.	Dimension (HxWxD)mm	Capacity	Material
TL-FDE-384F	1200x750x250	384 F	Galvanized Steel
TL-FDT-288F	1293x750x440	288 F	Galvanized Steel
TL-FDT-288T	1293x750x440	288 F	Galvanized Steel



TL-FDE-384F



TL-FDT-288F

Fusion wiring separation type: the end of the optical fiber in the optical fiber junction box is divided into different modules, which saves more space.

Fusion wiring integration type: fiber connection and termination in the same tray, which improve production efficiency.



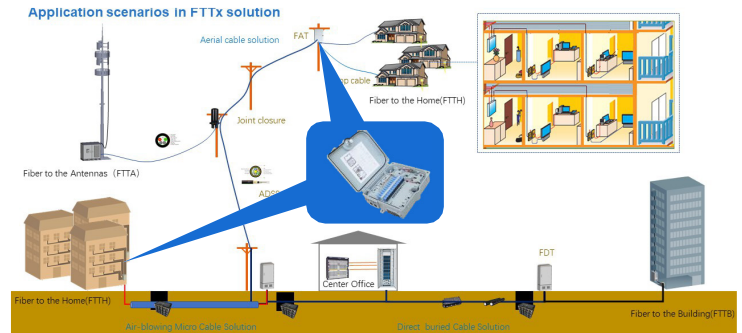
Fiber Optic Distribution Box

General Description

The equipment is used as a termination point for the feeder cable to connect with drop cable in FTTx communication network system. The fiber splicing, splitting, distribution can be done in this box, and meanwhile it provides solid protection and management for the FTTx network building.

Features

- Total enclosed structure, be in nice shape.
- Material: PC+ABS, wet-proof, water-proof, dust-proof, anti-aging
- Clamping for feeder cable and drop cable, fiber splicing, fixation, storage, distribution etc. all in one.
- Cable, pigtails, patch cords are running through own path without disturbing each other, cassette type SC adapter installation, easy maintenance.
- Distribution panel can be flipped up, feeder cable can be placed in a cup-joint way, easy for maintenance and installation.
- Most of the types can be installed by the way of wall-mounted or poled-mounted, suitable for both indoor and outdoor uses.



Photoelectric properties	
Insertion loss	≤0.3 dB
Return loss	APC≥60 dB; UPC≥50 dB
Connector plug durability life	1000 times

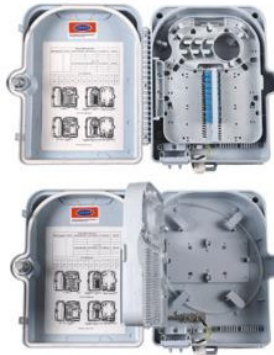
4 -12 Core Fiber Termination Box



TL-FTB-12A

TL-FTB-4A

Fiber Optic Distribution Box



TL-BEP-24F

24 Core Fiber Access Terminal Box



TL-FAT-24

2 Core Fiber Outlet Box



Joint Closure

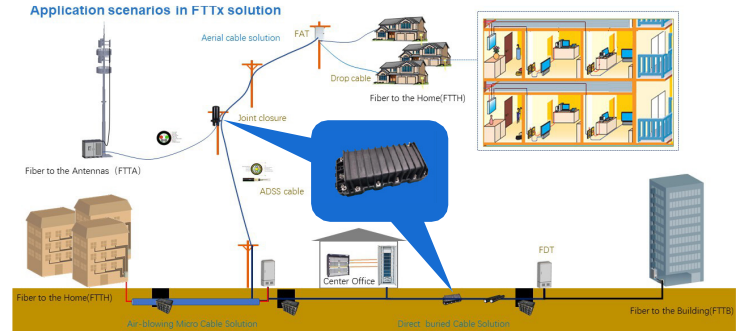
General Description

Joint closure is mainly used for protecting the fiber optic junction between two cables and reserve a section of fiber optic for maintenance in the box. The box has good leak-proof, anti-water and damp-proof feature and its power line is corrosion resistant. There are two types of the junction box, central and terminal one. The central type is used in the central part of the line to protect the two butted cables while the terminal type is used in the end of the line for branching in the cable line or protecting the connection of the fiber optic in the cable and the jumper.

Features

The closure casing is made of quality engineering plastics, and of good performance of anti-erosion against acid and alkali salt, anti-aging, as well as smooth appearance and reliable mechanical structure.

- The mechanical structure is reliable and has the performance of resisting wild environment and intensive climate changes and serious working environment. It can endure harsh conditions such as vibration, impact, tensile, cable distortion and strong temperature change. The protection grade reaches above IP67 ;
- The closures are applicable to ribbon type optical cable and common optical cable.
- The closure is of small volume, big capacity and convenient maintenance.
- The elastic rubber seal rings inside the closure are of good sealing, sweat-proof performance, and can be opened after sealing and can be reused.



Dome Joint Closure



Joint Closure

Dome Joint Closure



TL-JC-M48A



TL-JC-M576A



TL-JC-M96A



TL JC M288A



TL-JC-M768A



Joint Closure

Clamshell Joint Closure



TL-JC-F96B

TL-JC-F96C

TL-JC Series Fiber Joint Closures enables telecom operator & service providers to secure and manage the fiber joints and connections in Outside Plant (OSP) for FTTx networks. These joint closures are specially designed and fabricated for outdoor operations for both underground and aerial installation provided to bear extreme weather conditions and provide well secured cable jointing mechanism up to environmental rating of IP-68. ATC-MJC Series Joint Closures are designed and equipped for different capacities of Gaskets and splice trays to cover small and large scale cable entering, splicing / jointing and distribution for any kind of Telecom networks.

PLC Splitter

General Description

As an optical fiber device with 1/2 input ends and N output ends, the optical splitter is generally used to connect the local and terminal equipment and achieve optical signal branching and distribution functions in the passive optical network. The company provide two categories of optical splitters in the market i.e. PLC splitter and FBT splitter.

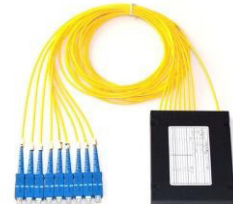
Split ratio: 1x2 1x4 1x8 1x16 1x32 1x64 1x128 2x2 2x4 2x8 2x16 2x32 2x64 2x128.

Application:

Applicable to the branch and distribution of optical signals in passive optical network (EPON, BPON, GPON, etc.) by connecting the bureau and terminal equipment.

Optical performance

1xN PLC optical splitter	1x2	1x4	1x8	1x16	1x32	1x64
Operating wavelength (nm)	1260~1650					
Insertion loss (dB)	4.1	7.4	10.5	13.8	17.1	20.4
Uniformity (dB)	0.6	0.7	0.8	1.0	1.5	2.0
Return loss (dB)	45 (PC) ; 50 (UPC) ; 55 (APC)					
Directivity (dB)	55	55	55	55	55	55
2xN PLC optical splitter	2x2	2x4	2x8	2x16	2x32	2x64
Operating wavelength (nm)	1260~1650					
Insertion loss (dB)	4.4	7.7	10.8	14.1	17.4	20.6
Uniformity (dB)	0.6	0.7	0.8	1.0	1.5	2.0
Return loss (dB)	45 (PC) ; 50 (UPC) ; 55 (APC)					
Directivity (dB)	55	55	55	55	55	55



Fiber Cables

General Description

Fiber optic cable is the basic transmission medium in the communication network, we have a variety of fiber optic cables to match different construction and application scenarios, mainly outdoor fiber optic cable, indoor fiber optic cable, household fiber optic cable, monitoring fiber optic cable, ant-rat cable, full dry fiber optic cable ETC.

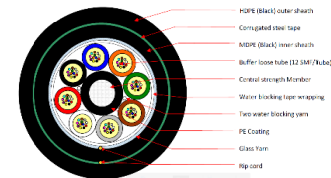
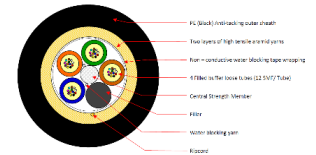
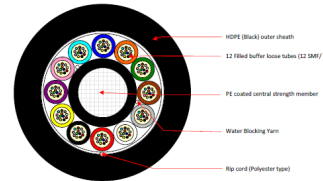
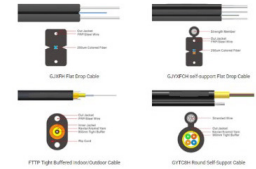
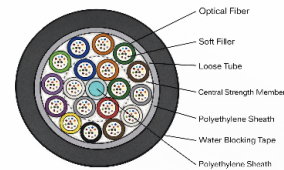
Features

- When outdoor cable is directly buried, armoured cable should be selected. When overhead, optical cable with two or more reinforcing bars with black plastic outer sheath can be selected.
- The optical cable used in the building should pay attention to its flame retardant, toxic and smoke characteristics when choosing.
- Distribution Cables are available for vertical cable Distribution Cables in the building; 3. Breakout Cables are available for horizontal wiring.
- If the transmission distance is within 2km, multi-mode optical cable can be selected; if the transmission distance exceeds 2km, relay or single-mode optical cable can be selected.

Application

Optical transmission system, Telecommunication networks, Connection of optical transmission equipment, CATV network ,etc.

Model NO.	Capacity core
Duct Cable	4-256
Flat Drop Cable	1-2
ADSS Cable	4-256
Micro Duct Air Blown Cable	4-144
Direct Buried	4-256



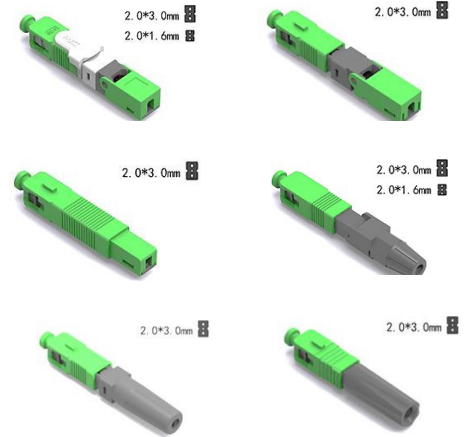
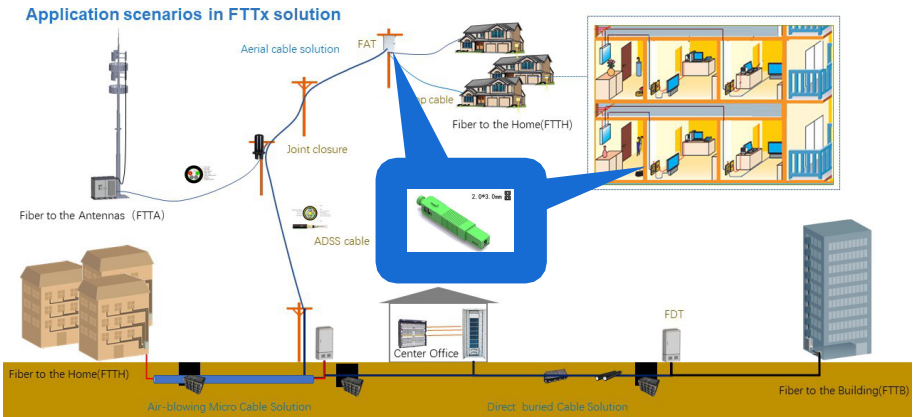
Fast Connector

General Description

Embed fiber, factory grinding, built-in fiber refractive index matching liquid, rich specifications, suitable for a variety of different scene of the fiber terminal, to meet a variety of assembly operation habits, APC and UPC optional, It is suitable for fast terminal of butterfly fiber optic cable into the home

Features

Insertion loss $AVG \leq 0.3dB$, $MAX \leq 0.5dB$, return loss $AVG \geq 55dB$, $MIN \geq 50dB$, working temperature - $40 \sim +85^{\circ}C$, tensile strength $\geq 30N$, repeated assembly ≥ 10 times, repeated plug and pull ≥ 500 times



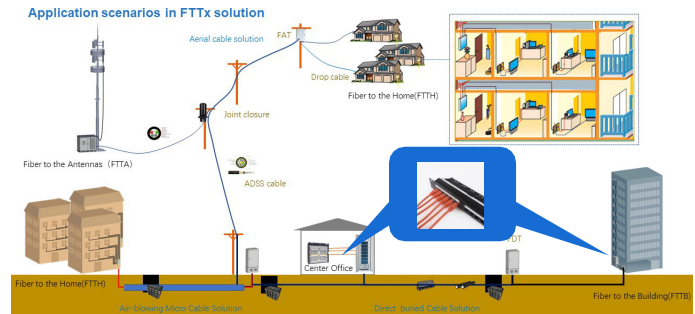
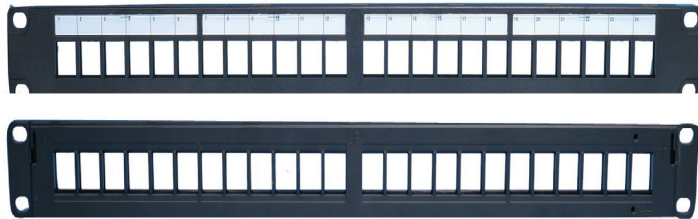
Copper cable wiring module

General Description

According to ANSI/TIA 568-C standard, the distribution frame refers to "Patch Panel". Distribution frame is the most important component in the management subsystem, and it is the pivot component to realize the cross connection and conversion of vertical trunk and horizontal wiring subsystems. According to the different installation position, the distribution frame can be divided into rack type and wall mounted type; Copper cable distribution frame can be divided into UTP, FTP, coaxial cable, audio and video distribution frame and so on; According to the different structure is divided into modular and integrated; According to use place, use different, divide for total distribution frame and intermediate distribution frame again.

Features

- Distribution frame adopts modular design, can be installed independent RJ45 module
- Has five classes of shielding, ultra five-month shadowing, six types of shielding, six classes a variety of types such as shield and six super class screen.
- Electrical distribution frame properties conform to ISO 11801 / EC, TIA/EIA 568-C standard requirement.
- Distribution frame of 19-inch installation
- Cable distribution frame at the back of the cable support, help management.



Model NO.	Dimension	Capacity ports	Material
TL-PP-24P	19"	8/16/24/48	metal

Techline Patch Panel UTP 1U 24-port snap-in patch panel is designed for your customized cabling solution. Based on your requirements, you can select your preferred keystone connectors and snap them into the panel as required.

Copper cable wiring assembly

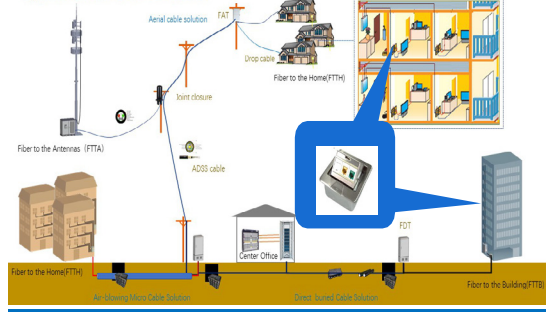
General Description

Crystal head is a plastic connector that can be inserted in a fixed direction and automatically prevent falling off. It is commonly known as "crystal head", and the professional term is RJ-45 connector (RJ-45 is a kind of network interface specification, similar to RJ-11 interface, which is used for connecting telephone lines). The crystal head is suitable for field connection between equipment or horizontal subsystems. The shell is made of high density polyethylene. Both ends of each twisted-pair wire are connected to the network card and hub (or switch) by mounting crystal heads. The network socket has two ways of wall-hanging installation and floor-to-ground installation, which are generally double ports

Features

- Alcohol should be used to clean the cable socket. The appearance of the cable socket is very smooth. Do not wipe it with water so that it will leave traces and is also not safe.
- Do not switch the cable socket repeatedly, which will not only increase power consumption, but also affect the service life of the cable socket.
- Network cable socket in wiring must let the electrician to operate, wiring process due to their own not professional (wire, wiring, installation), it is likely to give the future life buried trouble foreseeing.
- The practice of cross line is: a 568A standard is used, a 568B standard is used
- The practice of parallel lines is: both ends use the same standard (the same as 568A standard or 568B standard) 12,36 pairs of twisted

Application scenarios in FTTx solution



Model NO.	(HxWxD)mm	Material
TL-S-F-1P OR 2P	100x100x11	plastic
TL-RJ45-***	100x100x80	Metal & plastic



Copper data cable

General Description

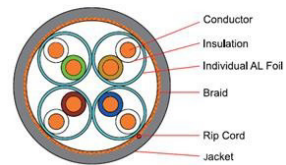
Network cable is the connection line between computer and computer, computer and other network equipment. Common network cables are twisted-pair and coaxial cable. At present, the main commonly used network cable is CAT6, CAT6A, CAT7. In the production of network cable, according to actual needs, including the following two production standards: EIA/TIA 568A standard and EIA/TIA 568B standard.

Features

- There are two pairs of four lines in the third category, and four pairs of eight lines in the fifth category
- The outer rubber is not easy to burn
- At a high temperature (more than 40°C) the outer rubber will not become soft
- The internal copper core material is pure, soft, tough and not easy to be broken
- The winding direction of the cable is counterclockwise winding rather than clockwise winding. Clockwise winding will affect the speed and transmission distance
- The number of turns in the network cable is different when winding, because if the number of turns is the same, the transmission signals between the two pairs of lines will interfere with each other, making the transmission distance shorter
- There is a layer of metal mesh and insulation material between the wire and the rubber of the shielded twisted pair. The outside of the crystal head is also wrapped by metal

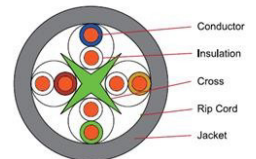
CAT7 S/FTP

[22AWG/23AWG BC+F-S-F PE+AL/PET]*2*4+ Braid wire+rip cord



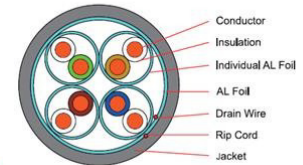
CAT6A U/UTP

[23AWG BC+HDPE]*2*4+ rip cord

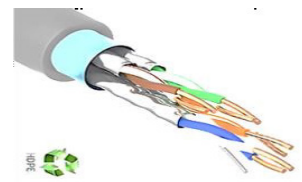
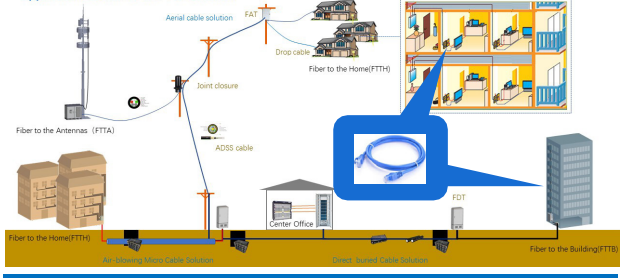


CAT6 F/FTP

[23AWG BC+F-S-FPE+AL/PET]*2*4+ AL/PET+drain wire +rip cord



Application scenarios in FTTx solution



Copper data cable

- High Quality CAT 5e U/UTP

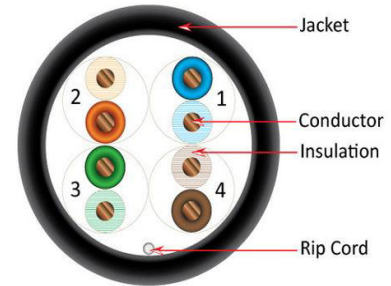
Description:

TECHLINE Cat-5e UTP Copper Solid cable transmits data over local area Networks (LANs) . These cables exceed performance requirements specified by TIA/ E1 A-568C.2 .

As streaming video and multimedia over LAN are gaining popularity, users demand faster data transmission and reduced waiting time.

Application:

These cables are made using 24 gauge (AWG) copper wires with about three twists per inch enabling them to transmit data at 1000 Mbps (~1 Gigabit per second) with a frequency of 100 MHz They are suitable for 10BASE T, 100BASETX . They support a higher signal -to-noise ratio, providing better reliability for current applications and higher data rates for future applications.



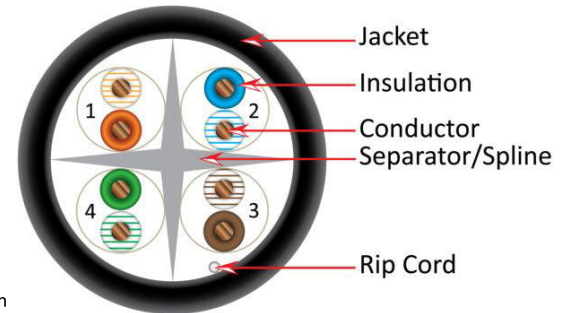
- High Quality CAT 6 U/UTP

Description:

TECHLINE Cat6 UTP Copper Solid cable transmits data over local area Networks (LANs). These cables exceed performance requirements.

Application:

As streaming video and multimedia over LAN are gaining popularity, users demand faster data transmission and reduced waiting time. They support a higher signal -to-noise ratio, providing better reliability for current applications and higher data rates for future applications.



Copper data cable

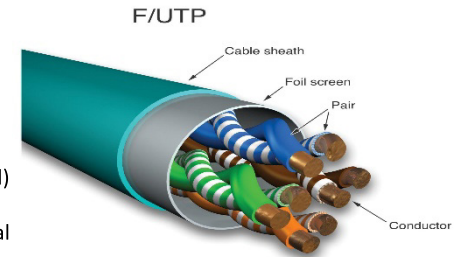
- High Quality CAT 6 F/UTP

Description:

TECHLINE Cat6 F/UTP Copper Solid cable transmits data over local area Networks (LANs) . These cables exceed performance requirements specified by the TIA/EIA-568C.2

Application:

Cat6 F/UTP cables reduce crosstalk and system noise. The superior insulation around the 23 AWG copper wires attribute to the increased performance. They can transmit data at 1000 Mbps (~1 Gigabit per second) with a frequency of 250 MHz and suitable for 10BASE-T, 100BASE-TX Fast Ethernet and 1000BASE-T/1000BASE-TX (Gigabit Ethernet). Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth of 250 MHz



- High Quality CAT 6 SF/UTP

Description:

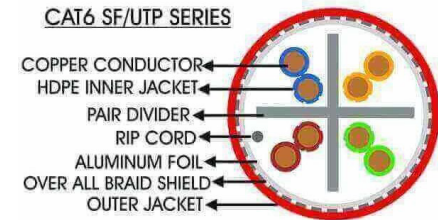
TECHLINE Cat 6 SFTP Copper Solid cable transmits data over local area Networks (LANs). These cables exceed performance requirements specified by the TIA/EIA-568C.2.

Application:

C4T6 SFTP Cable supported Gigabit Ethernet (1000 Base-T) standard.

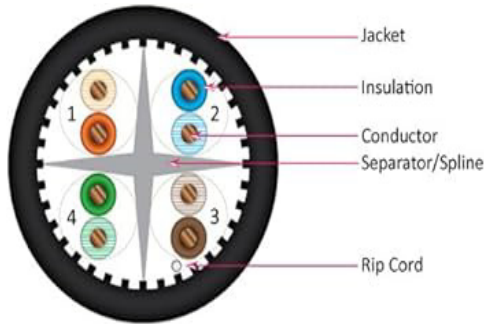
Operates at a bandwidth up to 250 Mhz.

Tinned copper screening gives protection against EMI and avoid signal loss and high ACR values - providing low BER (Bit-Erase-rater).



Copper data cable

- High Quality CAT 6A U/UTP



why Tecline use this design:

The toothed jacket is used to:

- Protect signal quality
- Maintain cable structure
- Improve flexibility
- Make installation easier

In short: **It's designed to meet Cat 6A high-performance requirements (10G), not just for appearance.**

Description:

TECHLINE Cat6A UTP solid cables are the best twisted-pair cables in the market for transmitting data over local area Networks (LANs). These cables exceed performance requirements specified by the TIA/ EIA-568B.2 / TINEIA-568C.2

Application:

Cat 6A cable System complies with all of the performance requirements for current and proposed applications such as 10 Gigabit Ethernet, Gigabit Ethernet (1000BASE-Tx), 10/ 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TPPMD, ISDN, analog and and digital video and analog and digital voice (Vol P).

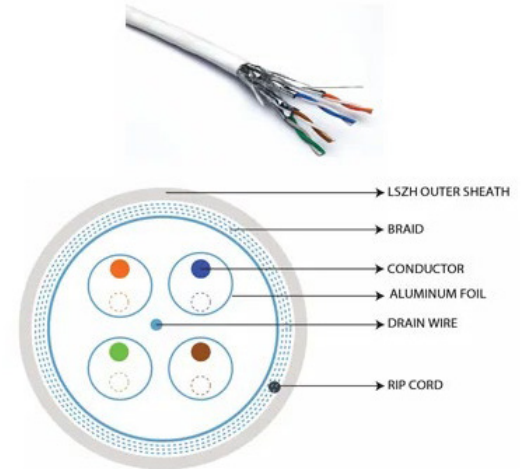
Feature	Smooth Jacket	Toothed (Corrugated) Jacket
Cable Geometry Stability	Medium	High (better pair spacing control)
Alien Crosstalk (AXT)	Higher risk in bundles	Lower (improved spacing & isolation)
10G Performance Margin	Acceptable	Better stability at 100m
Flexibility	Medium (stiffer due to thick wall)	Higher (air gaps improve bending)
Installation (Pulling)	Harder in conduits	Easier (reduced friction & stress)
Crush Resistance	Good	Better
Heat Dissipation	Standard	Improved
Outer Diameter Control	Uniform	Slightly larger but optimized
Cost	Lower	Slightly higher

Copper data cable

- High Quality CAT 6A S/FTP

Techline Category 6A (Augmented Category) S/FTP, ETL verified and has been designed for high network performance of up to 550 MHz. It can be used to design 100 meter channel links as well as shorter channel links with cables and patch cord lengths as short as required, offering maximum flexibility and minimizing excess cable and patch cord lengths which offer overall cost savings.

Techline Category 6A S/FTP cabling solution provides considerable margin above all electrical transmission performance requirements specified in ANSI/TIA-568-C.2, ISO/IEC 11801 and IEC-61156-5 and supports full duplex protocols delivering up to 10Gbps performance at frequency levels up to 550 Mhz. It provides improved bandwidth, data throughput and network efficiency and supports PoE Power of Ethernet standard (POE 802.3af) allowing data and power connection for POE equipments.



The cable jacket construction has tighter twists and its 4-pair construction with each individual pair surrounded with aluminum foil tape and braid screen reduces alien crosstalk (AXT) coupling between adjacent cables and provides extra margin of performance required for high bandwidth applications.

The Category 6A S/FTP Cable collectively with other Infinique's Category 6A U/FTP solution is the right solution for voice, data and video transmission needs. The Category 6A U/FTP Cable is offered in LSOH jackets in 1640 ft (500 m) reels to accommodate various installation requirements.



Indoor Network Cabinets:



Indoor Network Cabinets - Free Standing:

Indoor Network Cabinets - Wall Mounted:

Techline offers a variety of open and enclosed wall-mount cabinet for cables and equipment. Wall-mount systems create accessible locations for equipment where space is limited or does not exist. Store and secure equipment on the wall inside or outside of the data center or equipment room and connect remote groups of users to the network.

The range of 19" Floor Standing Data Cabinets are an ideal solution for housing network hardware and patching equipment. The robust design makes them suitable for use in IT departments and offices.



Outdoor Network Cabinets:

Outdoor Network Cabinets - Wall Mounted:

Outdoor Wall Mounting Cabinets are designed for industrial applications. They are based on the IP55 safety class which conforms to the EN 60529 and are therefore protected against water and dirt ingress.



Outdoor Network Cabinets - Free Standing:

Key Features:

- 19 Inch according EIA 310 D / DIN 41 494 IEC 60297
- 21 Inch according ETS 300 119-3
- IP55 and IP65 according DIN 40050 / IEC60529
- Integrated air ventilation inlets ensure the entry of fresh air (protection against water and dust acc. to IP54)
- Special epoxy-polyester outdoor powder coating and primer powder coating layer
- Wide range of sizes: 16U to 48U, 19 inch and ETSI standard
- Wide range of widths: 600mm, 800mm
- Wide range of depths: 600mm,

For outdoor installation, the Single Wall Outdoor Cabinet protects equipment from most adverse environmental conditions.



Rack Accessories:



RS Security Lock



CB Security Lock



Ventilation Fan 220V

Rack Accessories:

Power Distribution Unit



Thermostat For Cooling Fan

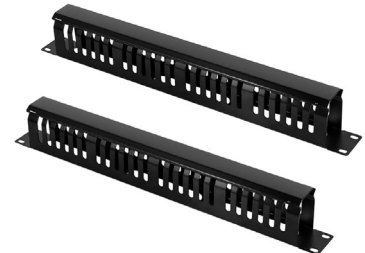


Earthing KIT

Rack Accessories:



19" Fixed Shelf



Cable Management
Box Type



ST , PL Cable Organizer



High Technology

TECH LINE

Technical Fiber Optics Lines Company.
Al Qastal industrial area, Amman,
Jordan www.techlinefactory.com

Jordan

T + 962 6 488 77 37

E: sales@techlinefactory.com

