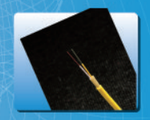
ZTT 中天科技
Your Partner In Cable



FTTx

SUPERLINK™ FTTx SOLUTIONS











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If the parameters and specifications in this product catalogue are changed due to change of products, we will not inform in advance.

ZHONGTIAN TECHNOLOGY CO.,LTD.
ZHONGTIAN BROADBAND TECHNOLOGY CO.,LTD.

ZTT 中天科技
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ZHONGTIAN BROADBAND ——— ODN Solution Provider for FTTX

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Company Profile of ZTT

Zhongtian Technology Co.,Ltd (abbr.ZTT hereafter) is one of the key high-tech enterprise in China, whose headpuarter is located in Shanghai ZTT became a public company in 2002 (Stock code:600522) and was honored “The first stock of special fiber optic cable in China”.

ZTT is specialized in the manufacture of telecommunication optical cable, power cable, submarine cable and optical cable equipment.

The cables for telecommunication system cover common optical fiber, optical fiber cable, FTTH solution, RF power cable, leaky power cable and their accessories.

Zhongtian Broadband Technology Co., Ltd. is a wholly-owned subsidiary of Zhongtian Technology Co., Ltd. which is a public company in China’s telecommunication industry. The company keeps tracks with research and participates in various of FTTX projects in domestic and abroad. The company also cooperates with telecommunication operators, FTTX solution designing institutes, and engineering companies to develop ODN series products.

Zhongtian Broadband Technology Co., Ltd. advocates and develops the products to meet the engineering application, with the purpose that all our products can be connected to the FTTX network, and achieve fast installation, easy operating and maintaining.

We committed ourselves on reducing FTTX connecting costs and promoting FTTH industrial development.

Customer Satisfaction
Keep Improving
Quality First
Strive for Excellence

Central Office Products

GPX Optical Fiber Distribution Frame



Description:

These XPON central office cabinets are different from traditional ODF in high density, easy for operation and maintenance and equipped splitters (We still use ODF to name it hearafter).
Gather the main and feeder on PON net in central office, suitable for XPON net or optic telecommunication system's cable to termination and distribution. It is easy for centralized management, test and maintenance. ODF can provide such functions as leading in, fixing, splicing, protecting optical cables, storing, managing pigtails and cross-connecting optic fibers.

Features:

- Cold-rolled steel, static spraying plastic treatment, nice appearance
- 19'' rack, large capacity, high density and totally closed structure, front access
- Ensuring that in any direction fiber bending radius≥40 mm
- Modular design can install different capacity splicing--distribution units.
- Adapter's installation with 35° ensures fiber's bending radius and prevents light damage eyes.
- Suitable for common optic cable and ribbon cable

Technical Data:

- Compliance with GB/Telecom standard: YD/T778-2006
- Return loss: FC/APC≥60dB
  FC/UPC≥50dB
  FC/PC≥45dB
- Fiber connector insertion attenuation:≤0.5dB (include interchangeability and repeatability)
- Longevit: >1000 times
- Voltage Proof: 3000V(DC)/1min
- Insulating resistance between the metal parts of the body and grounding fitting: $\geq 10^3$MΩ/500V(DC)
- Operation temperature: -5℃～+40℃
- Storage temperature: -25℃～+55℃
- Relative humidity: ≤85%(+30℃), 70kpa~106kpa

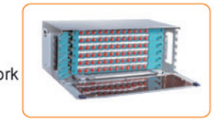
Rack Mounting Distribution Box

It is 19'' rack mounting and integrated with fixing, stripping, splicing, termination and distribution of optical cable, storage of pigtail. It is easy to install and operate. FC, SC, LC and ST adapters and ribbon, bundle and non-ribbon cables are all acceptable.

GPX–A Distribution Box

Features:

- High-quality aluminum plate or cold-rolled steel box body, surface under the treatment of static spraying
- 19'' rack mounted, Modular design, standard installation, flexible configuration and convenient capacity expansion
- FC, SC, LC and ST adapters and ribbon, bundle and non-ribbon cables are all acceptable.
- Adapters with the box front has a 35° angle to ensure the bending radius and prevent laser burning man's eyes.
- The splicing and distribution marks, easy for record of the splicing and distribution work
- Cable can be lead in from left and right sides.
- We can design different unit box according to customer's requirements.



GPX-A

GPX–B Distribution Box

Features:

- High-quality aluminum plate or cold-rolled steel box body, surface under the treatment of static spraying;
- 19'' rack mounted, Modular design, standard installation, flexible configuration and convenience capacity expansion.
- Ribbon, bundle and non-ribbon cables are all acceptable.
- Adapters with the box front has a 35° angle to ensure the bending radius and prevent laser burning man's eyes.
- The splicing and distribution marks, easy for record of the splicing and distribution work
- Cable can be lead in from left and right sides.
- We can design different unit box according to customer's requirements.



GPX-B

Ordering Guide:

Type	2000(Height)	2200(Height)	2600(Height)	Specification(mm)
GPX-01-600	432D	504D	648D	600(Width)×300(Depth)
GPX-02-840	720D	792D	864D	840(Width)×300(Depth)
GPX-03-840	504D	576D	720D	840(Width)×300(Depth)

* Specification and dimension can be customized.

Central Office Products

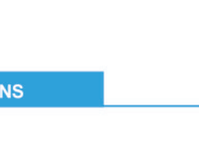
JPX Multi-purpose Cabinet

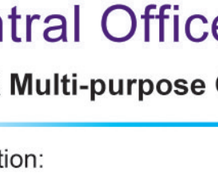
Description:

JPX01 multi-purpose cabinet can provide 19'' mounting space to integrate all the active and passive 19'' standard equipments in one cabinet. It is flexible to install ODF, DDF, MDF cell board to form a multi-purpose cabinet. The multi-purpose cabinet is an ideal distribution equipment for the communication network's remote office and module.

Features:

- The cabinet is overall welding molded, surface spraying treatment.
- The shelf with 19'' width design can move back and forth.
- The cabinet with partition panel and power panel, meet the requirement of uplink and active equipments;
- The front door is glass or steel door with net holes, which enlarge the visual area and the back door is steel double door with net holes.
- With a reliable cable fixing and grounding protection device
- With enough room for cable wiring
- Compliance with relevant YD/T 1819-2008 distribution frame industry standard for telecommunication equipment




Ordering Guide:

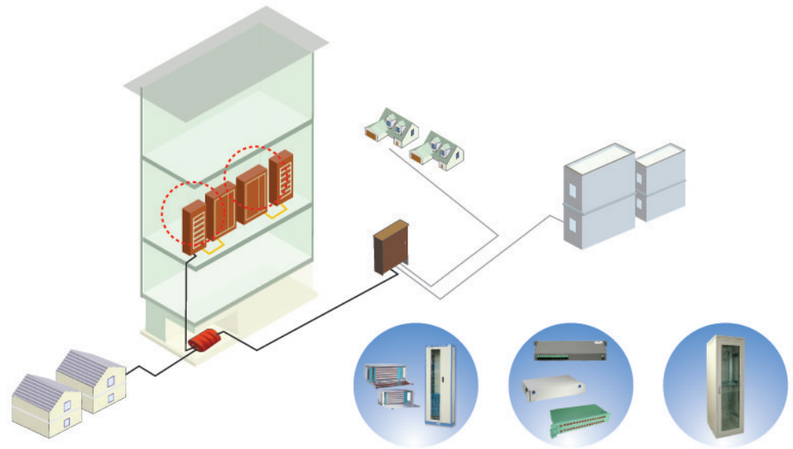
Height (mm)	Inner Space(mm)	Inner Space(U)	Remark
2000	1800	41	Standard configuration, fan two pcs, shelf one pc, five three-hole sockets
2200	2000	46	
2600	2400	55	

* Specification and dimension can be customized.

Rack Mounting Splitter

Features:

- Box body of splitter is made of high quality cold-rolled steel plate, surface electrostatic powder spraying treatment with nice appearance.
- 19" standard design and different style
- Adapters with the box front has a 30° angle or has a dust excluding plate to ensure optic fiber's leading easily and this design can prevent laser from burning man's eyes.
- Unique splitter clamp mounting makes our box body suitable for almost all the splitters of different capacities and different manufactures.
- Reasonable fiber wiring ensures the fiber's bending radius more than 40mm.
- Improving the splitters with protection and jumper management makes the splitter and the outer box to be an overall spectral element.



GPX-OPA

- 0° angle between the adpter and the box front
- For jump management, cables are fixed to ODF frame from both sides.

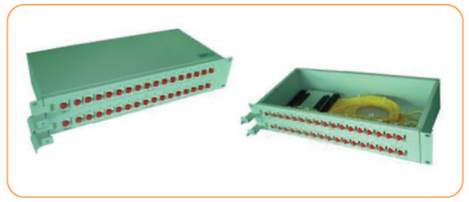


Central Office Products

Rack Mounting Splitter

GPX-OPB

- 30° angle between the adpter and the box front prevents laser burning man's eyes.
- For jump management, cables are fixed to ODF frame from both sides.



GPX-OPC

- Sliding rail, easy and fast installation for splitters
- The dustproof front caver makes the unit integrated with ODF.



Ordering Guide:

Item	Name	Type	Dimension(mm)	Capacity	Remark
1	19" Rack Mounting Splitter	GPX-OPA/B	45×482×200	1×2~2×32	FC/PC
2	19" Rack Mounting Splitter	GPX-OPC	89×482×200	1×2~2×32	SC/PC

* Specification and dimension can be customized.

Outdoor Distribution Box

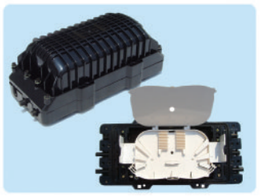
GJS Optic Fiber Cable Joint Box

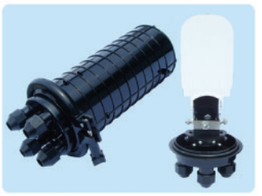
Installation Methods:

- For aerial, duct, direct-buried, wall-mounting and pole
- Compliance with optic cable joint box industry standard YD/T-814.1-2004

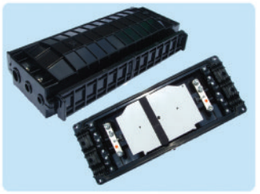
Features:

- Tensile performance: 1000N, 60kPa±5kPa, one minute, air pressure keeps unchanged.
- Crush: 2000N/10cm for direct-buried type, 1000N/10cm for aerial and duct type, 60kPa±5kPa, one minute, air pressure keeps unchanged.
- Impact: 1KG steel ball, 16J energy, 3 drops, 60kPa±5kPa, box body no breakage, air pressure keeps unchanged.
- Bending: 150N, ±45° bending angle, 10 cycles, 60kPa±5kPa, air pressure keeps unchanged.
- Torsion: 50N.M torque, ±90° torsion, 10 cycles, 60kPa±5kPa, air pressure keeps unchanged.
- Seal performance: Charged with air up to 100kPa±5kPa, immersed in the water for 15 minutes, no air bubble escapes; After removing from the water for 24 hours, air pressure keeps unchanged.
- Insulated resistance: After immersing into the water with 1.5m depth for 24 hours, insulated resistance more than $2\times10^4M\Omega$.
- Voltage resisting strength: After immersing into the water with 1.5m depth for 24 hours, DC of 15KV lasting 1min, no breakage, no electric arc.
- High temperature: Under +60℃ for 2 hours, 60kPa±5kPa, no out of shape, air pressure keeps unchanged.
- Low temperature: Under -40℃ for 2 hours, 60kPa±5kPa, no out of shape, air pressure keeps unchanged.
- Temperature cycle: -40℃, each point lasting 2 hours, 3 cycles, air pressure decline level is no more than 5kPa.







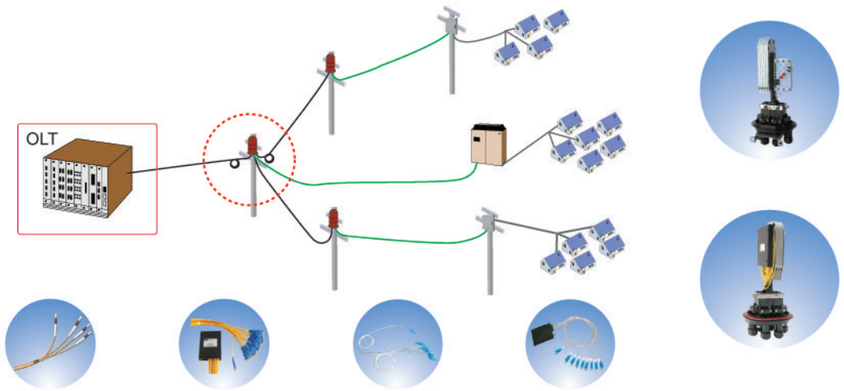


Outdoor Distribution Box

GJS1-Horizonal Type; GJS2-Cap Type; GJS3-Half Type

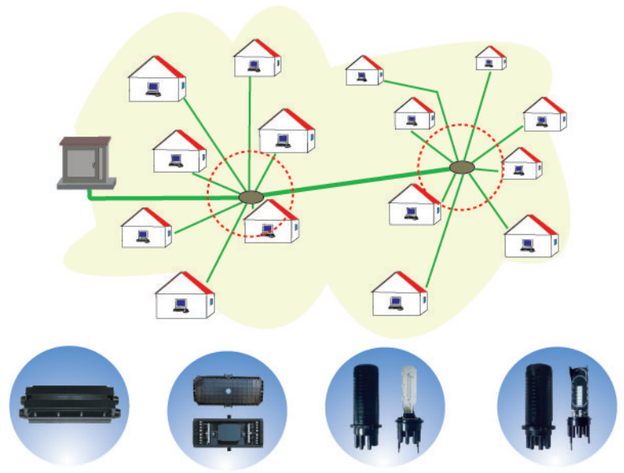
Type	Cable Ports	Max Fiber	Dimension (mm)	Cable Diameter (mm)	Seal Method
GJS109-1	2 In 2 Out	60 Fiber	460×180×108	φ7~φ18	Adhesive Tape or Silicon Rubber Sealant
GJS109-2	2 In 2 Out	60 Fiber	492×180×104	φ7~φ25	Adhesive Tape
GJS109-3	2 In 2 Out	60 Fiber	492×202×104	φ7~φ25	Adhesive Tape
GJS109-4	4 In 4 Out	96 Fiber	492×202×175	φ7~φ25	Adhesive Tape
GJS101-2	2 In 2 Out	120 Fiber	599×195×136	φ7~φ25	Adhesive Tape or Silicon Rubber Sealant
GJS101-3	4 In 4 Out	216 Fiber	590×195×188	φ7~φ25	Adhesive Tape or Silicon Rubber Sealant
GJS102	6 In 6 Out	72 Fiber	490×200×140	φ10~φ25	Adhesive Tape
GJS1005	2 In 2 Out	60 Fiber	470×216×127	φ7~φ23	Adhesive Tape
GJS1009	4 In 4 Out	48 Fiber	390×180×88	φ5~φ14	Adhesive Tape or Silicon Rubber Sealant
GJS208-1	2 In 2 Out	96 Fiber	250×470	φ7~φ20	Adhesive Tape
GJS208-2A	3 In 3 Out	64 Fiber	210×450	φ7~φ22	Adhesive Tape or Silicon Rubber Sealant
GJS208-2C	3 In 3 Out	96 Fiber	210×440	φ7~φ22	Heat Shrinkable Tube
GJS208-3	3 In 3 Out	96 Fiber	260×500	φ7~φ20	Heat Shrinkable Tube
GJS208-4	4 In 4 Out	216 Fiber	278×580	φ7~φ23	Heat Shrinkable Tube
GJS208-5	3 In 3 Out	96 Fiber	220×576	φ7~φ23	Heat Shrinkable Tube
GJS208-6	4 In 4 Out	252 Fiber	278×580	φ7~φ23	Heat Shrinkable Tube
GJS208-7	3 In 3 Out	240 Fiber	278×580	φ7~φ23	Heat Shrinkable Tube
GJS208-8	3 In 3 Out	96 Fiber	220×567	φ7~φ23	Heat Shrinkable Tube
GJS208-9	2 In 3 Out	24 Fiber	100×340	φ7~φ19	Heat Shrinkable Tube
GJS2706	2 In 2 Out	96 Fiber	210×567	φ7~φ23	Adhesive Tape or Silicon Rubber Sealant
GJS2708	2 In 2 Out	24 Fiber	85×330	φ7~φ19	Adhesive Tape or Silicon Rubber Sealant
GJS2805	3 In 3 Out	96 Fiber	220×567	φ7~φ23	Adhesive Tape
GJS2808	6 In 6 Out	480 Fiber	278×560	φ7~φ25	Adhesive Tape
GJS304	4 Ports	48 Fiber	340×232×94	φ5~φ14	Adhesive Tape
GJS306	2 Large and 24 Small Ports	24 Fiber	250×156×65	φ2.2~φ15	Adhesive Tape

Splitting/ Adapter Type Joint Box Application



- Rural area network: more aerial net types, scattered ONUs
- Splitting/ adapter type joint box is cheaper than cross connecting cabinet.
- Compared with cross connecting cabinet, more safety is another factor.
- These joint boxes adopt cap-type and pole installation.
- Dismountable adapters and splitter are easy for increasing fibers in the future.

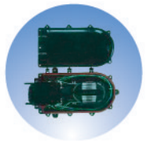
Multi-hole Joint Box Application

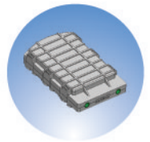


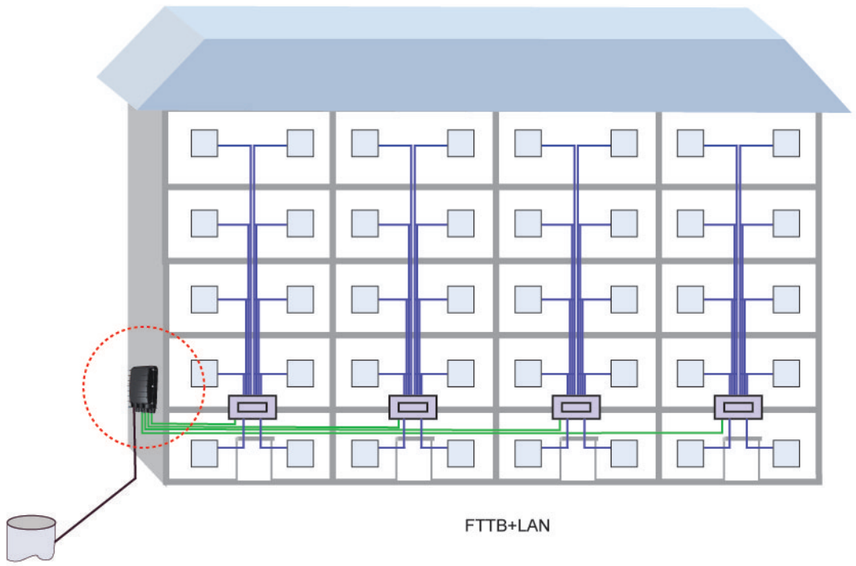
- Multipoint (distribution point) simplifies operation and saves other installation materials.
- Not recommended to be used in villas
- Adopted in focused SFU buildings
- More suitable for cap-type and 8-16 cable holes

Outdoor Distribution Box

Repeat-open Type Joint Box

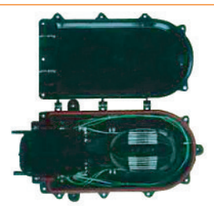






FTTB+LAN

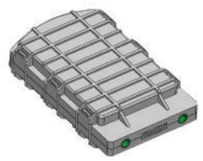
- Devided into joint box, termination box, splitting box
- Connected to cross connecting cabinet, connected in series for more users in one building
- Wall-mounting or pole installstion
- Easy for operation in phases and upgrading;
- Installing a splitter



Type-GJS304



Type-GJS305



(2+24)Type-GJS306
For Flat Drop Cable

Cross Connecting Cabinet For Optic Cable (OCC Cabinet)

Features:

- Cabinet body (outer layer) made of SMC/double stainless steel, the lining of high quality cold-rolled steel plate, the middle layer of heat insulating material with premium heat-insulating property, the sealing strip installed to the inside door withstanding the extreme changing weather and poor working condition
- Stainless steel-type double layer structure can resist strike and the hidden air channel on the top can regular the internal and external air pressure, resist temperature's sudden drop and condensation.
- Surface spraying treatment (outdoor powder) has good performance in wear-resisting and corrosion-resistant and prevent light pollution.
- Front access, withdrawing style, integrated splicing and distribution, easy for operation
- Providing direct splicing unit for cable's direct splicing
- Suitable for ribbon or non-ribbon cable
- With a reliable cable leading in, fixing and grounding protection device
- With all the marks for splicing, distribution and splitting
- Adapters with the box front has a 30° angle to prevent laser burning man's eyes and this design can make optic fiber leading easily.
- Reasonable fiber wiring ensures the fiber's bending radius less than 40mm.
- Compatibilizing all the GXF-OS splitters, to form a integrated splitter system
- Voltage Proof: 3000V(DC)/1min
- Insulating resistance between the metal parts of the body and grounding fitting is no less than 2×10^4MΩ/500V(DC).
- Mechanical strength: The box can withstand vertical pressure more than 980N.
- Cable fixed place can resist 1000N axial tension, +90° twisting, 3 times.
- Seal performance: IP65
- Flamme resistance: compliance with grade A of GB5169.7






48F　144F　288F　576F





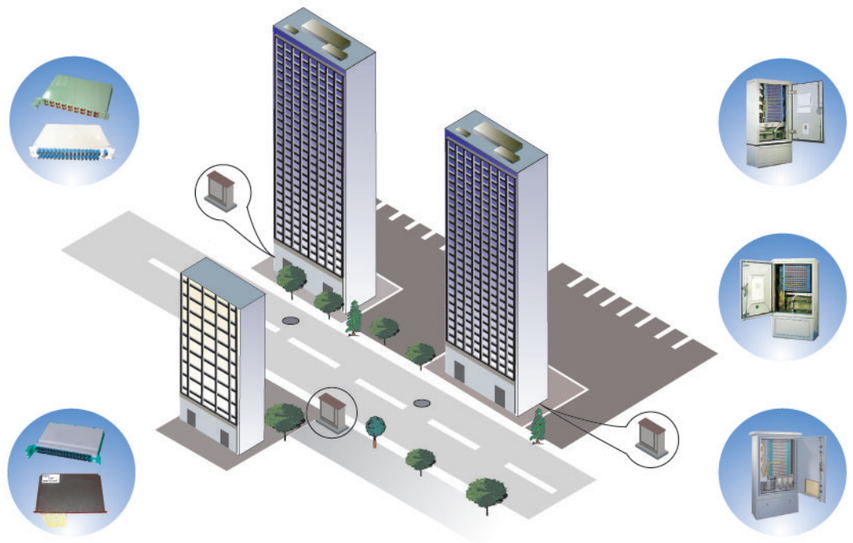
Double-stainless Layer

Outdoor Distribution Box

Product List:

No.	Type	Capacity	Max	Dimension (mm)	Installation Method
1	GXF-HS48	48D	48D	450×310×180	Wall-mounting
2	GXF-HS144	144D	144D	1000×480×300	Wall-mounting Floor Type
3	GXF-HS288	288D	432D	1450×750×320	Floor Type
4	GXF-HS576	576D	768D	1450×750×560	Floor Type
5	GXF-HG144	144D	144D	1150×650×320	Floor Type
6	GXF-HG288	288D	288D	1500×660×320	Floor Type
7	GXF-HG576	576D	576D	1450×740×580	Floor Type

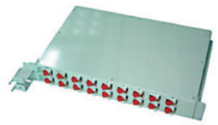
* Specification and dimension can be customized, the dimensions in the table are for common.



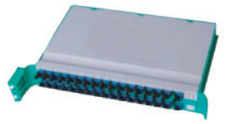
GXF-OS Series Tray Splitters



GXF-OSA



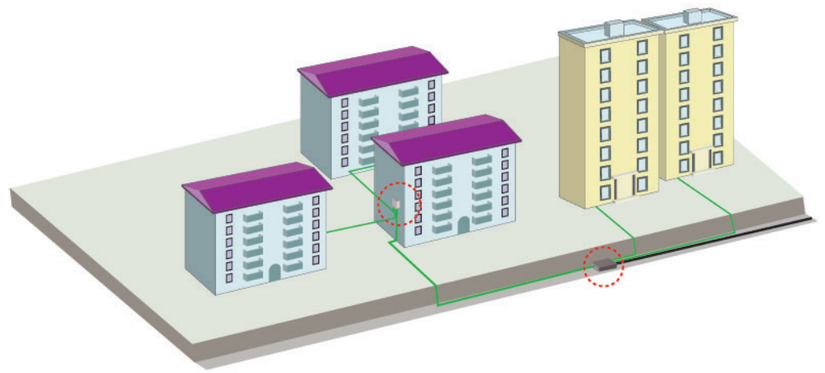
GXF-OSB



GXF-OSC

No.	Name	Type	Dimension (mm)	Capacity	Remark
1	OCC Cabinet Splitter	GXF-OSX18	A: 27×336×195/ B: 51×336×195/ C: 27×336×195/	1×8	FC/PC
2	OCC Cabinet Splitter	GXF-OSX28	A: 27×336×195/ B: 51×336×195/ C: 27×336×195/	2×8	FC/PC
3	OCC Cabinet Splitter	GXF-OSX116	A: 27×336×195/ B: 51×336×195/ C: 27×336×195/	1×16	FC/PC
4	OCC Cabinet Splitter	GXF-OSX216	A: 27×336×195/ B: 51×336×195/ C: 27×336×195/	2×16	FC/PC
5	OCC Cabinet Splitter	GXF-OSX132	A: 54×336×195/ B: 77×336×195/ C: 54×336×195/	1×32	FC/PC
6	OCC Cabinet Splitter	GXF-OSX232	A: 54×336×195/ B: 77×336×195/ C: 54×336×195/	2×32	FC/PC

* Specification and dimension can be customized.
* Specifications may be changed without notice.



Outdoor Terminal Box

FTTX Outdoor Cabinet

Installation methods: ground installation or installation on the deck between two poles(for small capacity cabinets)

Site of installation: previous site for power cable cabinet to terminate the cable from PON net, to connect formal couples of copper ethernet cable

Purpose: replacing the previous the office DSLAM equipment, carrying forward the fiber office to next step

Features:

- Cabinet body is welded wholly by metal plates, with firm structure (aluminized zinc plate, cold-rolled steel plate, stainless steel plate).
- Surface treatment: degreasing, derusting, phosphating (or aluminized), spraying
- Stainless steel-type double layer structure, with the heat insulating middle layer, resisting temperature's sudden drop and condensation
- Outstanding capping can protect the cabinet effectively and increase cabinet's aesthetics.
- 19" standard design and nonstandard equipment platform, installing ONU/ONT, ADSL/VDSL, AG, IAD and so on
- Folding table for PC, easy for operation
- IP65 outdoor lock, three locking point structure, device installing anti-theft lock covers on the locks
- Optional entrance guard
- Cabinet door adopts hidden hinges to make the cabinet surface smooth without any fastening pieces
- Grounding installation screws are placed in the cabinet.
- With enough room for fiber retaining and wiring
- Surface spraying excellent weatherability powder
- Installation: overheading (aerial, wall mounting), grounding installation
- Protection level: IP55
- Good grounding system, more than 15 years of usage



Box Body



Equipment Box



Heat Exchanger



Distribution Box



Recharger

Outdoor distribution box

Fittings:





























Production information:

Type	Dimension (mm) H×W×D	19" Equipment Compartment	Distribution Compartment	Accumulator Cell Compartment	Cooling System
ZTM01	1400×1150×650	24U	1200L	4 Clapboard For 8 Cells	Fan
ZTM02	1400×1400×850	20U	800L	3 Clapboard For 6 Cells	Fan Heat Exchanger

* Specification and dimension can be customized.

Cable Distribution Box

Cable distribution box is for fiber's splicing, installation, distribution and splitting in corridor or weak current room. Some elements shall be considered in the following:

- Whether the box need to install splitter
- Splice cables directly or use adapter and pigtails(or jumper)
- Installation site and capacity

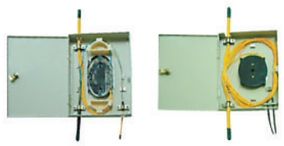
Technical data:

- Environment temperature: -20℃~+45℃
- Relative humidity：≤85%(+30℃)
- Air pressure: 70Kpa~106 kPa
- Insertion loss: ≤0.2dB
- Return loss: FC/APC≥60dB
  FC/UPC≥50dB
  FC/PC≥45dB
- Connector longevity: ＞1000 times
- Voltage Proof: 3000V(DC)
- Insulating resistance between the metal parts of the body and grounding fitting: ≥10^3MΩ/500V(DC)

Features:

GPXD01-12/24

- Installation in corridor, connecting the OCC cabinet and cables
- Branch cable and distribution cable branch or direct fusion
- Cold-rolled steel plate, surface spraying treatment
- Wall-mounting, cable fixing and splicing, front access
- Front and bottom cable access, easy for operation
- Dimension: 340×260×55mm



GPXD02-12/24

- Installation in corridor, for cables' nonstop splicing
- Branch cable termination, integrated splicing and distribution together
- Cold-rolled steel plate, surface spraying treatment
- Swelling trays, easy for operation
- For ribbon cable
- Flat cable connecting can be accomplished through fiber marks.
- Dimension: 430×300×120mm



GPXD03-24/48

- Branch cable termination, integrated splicing and distribution together
- Open type, easy for operation
- Smart structure, suitable for small room installation
- Flat cable connecting can be accomplished through fiber marks.
- Dimension: 360×310×140mm



GPXD7810C

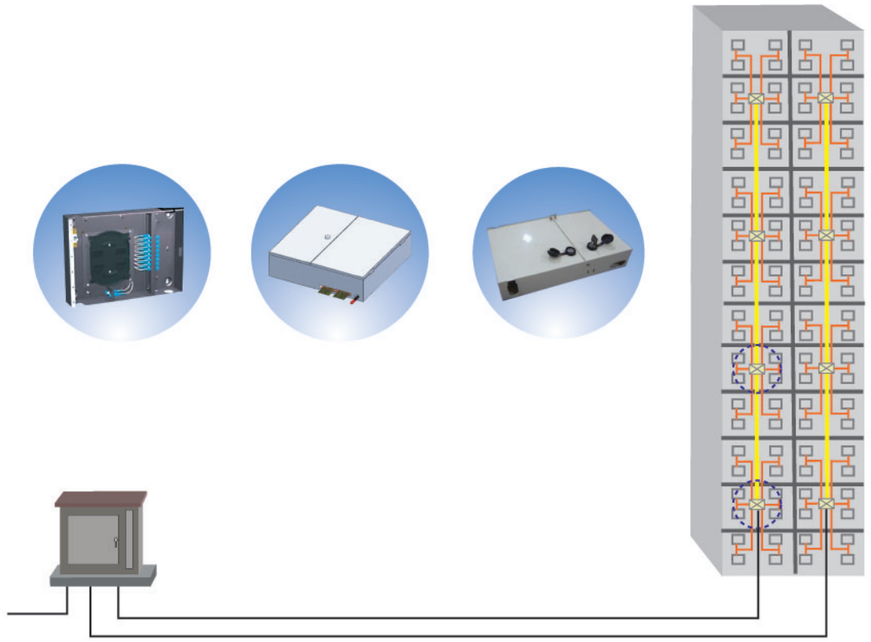
- Splitter placed independent; boxes are compatible and can be integrated.
- One splice tray, for cable's termination; 32+2 SC adapter
- One 2×32 splitter
- Cables can be branched or direct spliced.
- Flat cable connecting can be accomplished through fiber marks; top and bottom access
- Dimension: 350×300×80mm



GPXD7810D

- Splitter placed independent
- Flat indoor cable and cables connected through the pigtails and splitters
- Support mechanical splicing and fusion
- Large pigtail retaining room
- Double locks separating fusion and distribution
- Dimension:
  385×299×72mm for 12-16 fibers
  385×235×72mm for 24-32 fibers
  385×457×72mm for 36-48 fibers





Cable distribution box

GPF7811B (12, 24 Fiber)

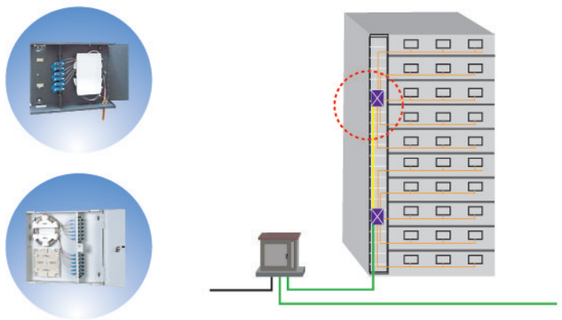
- For branch cable termination, separated fusion and distribution
- Open type, easy for operation
- Smart structure, suitable for small room installation
- Flat cable connecting can be accomplished through fiber marks, top and bottom access.
- Dimension: 335×260×100mm



GPF7811C (12, 24 Fiber)

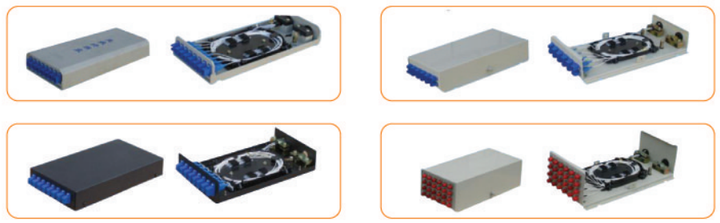
- Adapter 0° angle, easy for flat indoor cable access
- Support mechanical splicing
- Double locks separating fusion and distribution
- Dimension: 320×300×45mm for 12fibers
  320×300×60mm for 24fibers





GPF924 (8, 12, 24 Fiber)

- Small structure, left and right cable access, easy for operation
- Compliance with FC/SC/ST connector
- Dimension: GPF924-08A: 285×125×50mm, GPF924-08B: 260×140×40mm,
  GPF924-12A: 330×183×70mm, GPF924-12B: 315×140×60mm,
  GPF924-24A: 330×183×100mm



Indoor Terminal Box

FTTB Corridor Box

Technical Data:

Environment:

- Working temperature: -20℃~+45℃
- Store temperature: -20℃~+55℃
- Relative humidity: ≤85%(+30℃)
- Relative store humidity: ≤75%
- Air pressure: 70kPa~106 kPa

Electric:

- Voltage Proof: 3000V(DC)
- Insulating resistance between the metal parts of the body and grounding fitting: $\geq 10^3 M\Omega$/500V(DC)

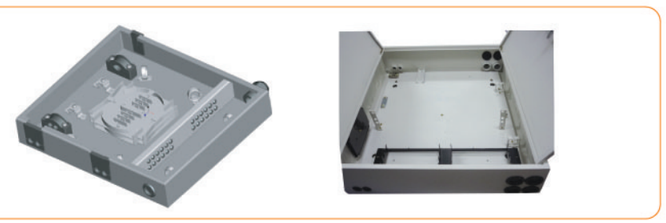
Optic Fiber:

- Insertion loss: ≤0.2dB (PC type) ≤0.3dB (APC type)
- Return loss: ≥60dB APC type
  ≥50dB UPC type
  ≥45dB PC type
- Exchangeability: ≤0.2dB
- Repeatability: ≤0.1dB
- Connector longevity: ＞1000 times

Features:

GPXB-01

- Three function areas: power, equipment and fiber distribution
- Socket board
- Installing 2 ONU, each ONU equipped with 16 FE connectors and 16 POTS
- Adopted by 110 modular cable, with totally 300 returning copper cable, left part is for equipment connect data line and voice line from ONU. Right part is to connect ethernet cable, with the patch cord opening the service from middle part.
- One splice tray for cable fusion or mechanical splice provides cable crossing function.
- Dimension: 700×600×150mm



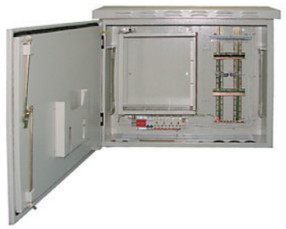
Indoor terminal box

GPXB-02

- High quality cold-rolled steel plate, surface electrostatic spraying
- Single door, opening 120° angle
- 19" equipment shelf, installing non-standard equipment clapboard
- Front access; rolling shelf, easy for operation
- Installing fans, outdoor
- Dimension: 750×700×220mm



Box Without Fans



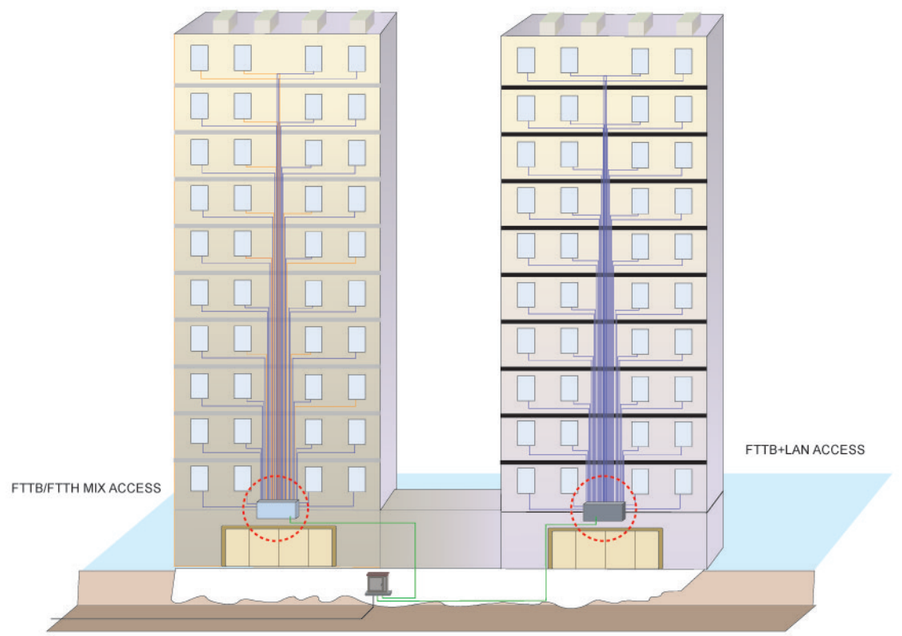
Box With Fans

Order Guide

Name	GPXB-01	GPXB-02
Box Body	1	1
Splice Tray	1	1
A-86 Faceplate (Fiber Outlet)	Optional	Optional
Fan		1
Light Protection Device	1	1
Socket Board	Optional	Optional
110 Modular, 50Pair/Cable	300 pair	200pair
ONU	Optional	Optional
Non-standard Equipment Clapboard	Optional	Optional
Fittings	1	1

* Specification and dimension can be customized.
* Specifications may be changed without notice.

FTTB/FTTH Mixed Access Box



MIXTM 212 Double Layer (Optical Fiber Splicing, ONU + Distribution Modular)

- Folding type design, FTTH and FTTB separated access, the mixed access of FTTH and FTTB can be achieved according to customer's requirement. It can also be upgraded from FTTB to FTTH.
- The bottom layer completes connecting between distribution cable and indoor cable, splitter placement slots, to supply power to equipment layer.
- The top layer completes ONU installation or distribution, without effect on bottom layer.
- Dimension:600×550×220mm



Indoor Terminal Box

FTTB/FTTH Mixed Access Box

MIXTM 812 tri-layer

(cable distribution, splitting, IAD extension equipment+distribution mudula and ONU)

- Clearly layered style design, optic, equipment and IAD three parts
- Much small structure and good appearance, adjusting the functional area
- Independent operation, not affect each other
- IAD layer is independent, easy for maintaining and new user's open access.
- Equipments are layered, easy for operators' distinguishment.
- Dimension:600×550×350mm





Order Guide:

Name	MIXTM 212	MIXTM 812
Box Body	Cold-rolled Steel Plate+ Surface Electrostatic Spraying	Cold-rolled Steel Plate+ Surface Electrostatic Spraying
Main Cable Termination	Splice Tray	Splice Tray
	Fiber Faceplate	Fiber Faceplate
	Termination Box	Termination Box
	Fast Connector	Fast Connector
User Cable Termination	Splice Tray	Splice Tray
	Fast Connector	Fast Connector
Splitter Slot Position	Optional	Optional
Adapter Panel	12/Panel	12/Panel
Adapter	FC/SC	FC/SC
Switch	3 Ways	3 Ways
Battery	**	**
Socket Plate	4/6 Way	4/6 Way
Grounding Wire	Yellow and Green	Yellow and Green
Distribution Modular	100 Pair Optional, 25 Pair/Pcs	100 Pair Optional, 25 Pair/Pcs
Dimension	600×550×220mm	600×550×350mm

*Specifications may be changed without notice.

FTTH Home Intelligent Box

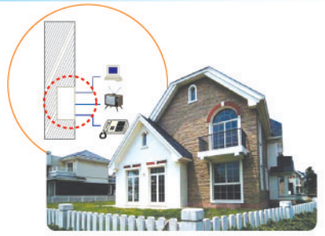
Home intelligent box applicable to FTTH, some elements shall be considered:

- Home ONU installation and power supply (compatible different manufacturer' ONUs)
- Home cable's retaining and termination
- The difference between SFU and MDU (MDU for 8 figure flat drop cable)
- Integrated with safe guard , CATV, and others

Three Kinds of Intelligent Box

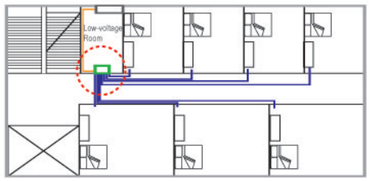
- GMB208-SFU for Villa





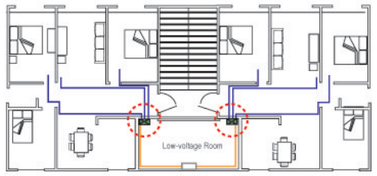
- GMB209-MDU for Multi-user





- GMB210 ONU Type





Order Guide:

Item	GMB208	GMB209	GMB210
Applicable Occasion	Villa	Home	ONU Exclusive
Material	High Quality Cold-rolled Steel Plate		
A86 Fiber Faceplate	Optional	Optional	Optional
Small Splice Tray	1	Optional	Optional
Socket Panel	1	1	1
CATV Module1 In 4 Out	Optional	Optional	Optional
Data Module	Optional	Optional	Optional
Lighting Protection Switch	Optional	Optional	1
Small Battery	Optional		Optional
Radiating	Ventilation		
Dimension	500×400×200	400×350×160	385×290×150

*Specification and dimension can be customized.
*Specifications may be changed without notice.

Fiber Faceplate (Panel)

OTM96

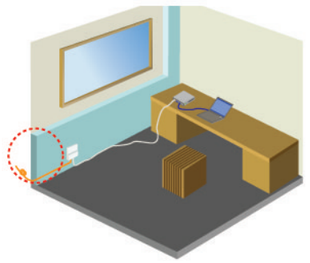
- Upper cover burking design, slim, easy for operation, suitable for open and dark wiring
- Suitable for SC, LC, ST, FC connector
- Large cable wrapping pole can protect the fiber sufficiently.
- Intergraged bayonet type design, easy for operation
- Support fusion, mechanical and fast connecting
- User's LOGO printed on the surface
- Wall laminated installation, dimension: 86×86×25 mm



OTM98

- 30° downward angle preventing light damage eyes
- Patent base design, support fusion, mechanical and fast connecting
- SC double ports
- User's LOGO printed on the surface
- Wall inlayed installation, dimension: 86×86×40mm





Order Guide:

Name	OTM96	OTM98
Cover	1	1
Base	1	1
Accessories	1	1
Heat-shrinkable Tube	Optional	Optional
Mechanical Connector	Optional	Optional
Fast Connector	Optional	Optional
0.9mm Fiber	Optional	Optional
SC Adapter	Optional	Optional
FC Adapter	Optional	Optional

*More product informations, please browse ZTT website.

PLC (Planar Lightwave Circuit)

Features:

- Wide operating wavelength range;
- Good channel-to-channel uniformity;
- Small size and wide temperature range;
- Good insertion loss and return loss;
- Easy for operation

Technical Data:

Item		1×2	1×4	1×8	1×16	1×32	1×64
Wavelength (nm)		1260~1650					
Insertion Loss (dB)	Typical	3.6	6.8	10.0	13.0	16.0	19.5
	Max(P/S)	3.8/4.0	7.1/7.3	10.2/10.5	13.5/13.7	16.5/16.9	20.5/21.0
Loss Uniformity(dB)	Typical	0.4	0.5	0.5	1.0	1.0	1.5
	Max	0.6	0.6	0.8	1.2	1.5	2.5
Return Loss(dB) (P/S)		55/50	55/50	55/50	55/50	55/50	55/50
PDL(dB)	Typical	0.1	0.1	0.1	0.1	0.2	0.2
	Max	0.2	0.2	0.3	0.3	0.3	0.4
Directivity (dB)		55	55	55	55	55	55
Fiber Length (m)		1.2(±0.1) or Customer Specified					
Fiber Type		Customer Specified					
Wavelength Dependent Loss(dB)	Typical	0.2	0.2	0.2	0.3	0.3	0.3
	Max	0.3	0.3	0.3	0.5	0.5	0.5
Temperature Stability (-40~+85℃) (dB)	Typical	0.3	0.3	0.3	0.4	0.4	0.4
	Max	0.5	0.5	0.5	0.5	0.5	0.5
Operating Temperature ℃		-40 ~ +85					
Storage Temperature ℃		-40 ~ +85					

Note: Spec of 1×N PLC splitters (All measurements were done at room temperature, and specifications exclude connectors.)

Fiber Faceplate (Panel)

PLC (Planar Lightwave Circuit)

Application:


OPA


OPB


OPC


OSA


OSB


OSC


Brade


Cable Module


Small Module


Box Module


0.25 Bare Fiber Module

Order Information:

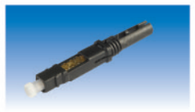
ZTT PLC ---□□□------□□----------□□----------□□----------□□

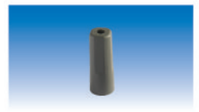
Port	Module Type	Port In	Port Out	Adapter
104: 1×4	SM: Small Module	P9: 0.9mm Pigtail	P9: 0.9mm Pigtail	SP: SC/PC
108: 1×8	BM: Box Module	P2: 2mm Pigtail	P2: 2mm Pigtail	SA: SC/APC
116: 1×16	OP: Optic Panel	P3: 3mm Pigtail	P3: 3mm Pigtail	FP: FC/PC
132: 1×32	OS: Optic Salver	AD: Adapter	AD: Adapter	FA: FC/APC
164: 1×64	BR: High Density Module			LP: LC/PC
204: 2×4	CM: Cable Module			LA: LC/APC
.....				
264: 2×64				

Fast Connector

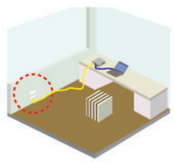
Features:

- Improved direct fiber jointing and embedded technology
- Ceramic parts axial self-aligned technology, long-lasting optical properties
- Fiber axial flexible auto-fit avoids virtual docking.
- The joint of fibers has large tensile strength can meet the requirement of rough operation for fiber splicing.
- Integrated protective cover, can endure outdoor harsh environment
- Save splice tray and fiber faceplate can connect adapters and ONU directly to save the cost for FTTH.
- High success operation rate, average operation less than 90s
- Visual operation quality, independent on light and special equipments

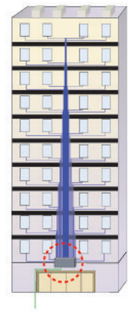




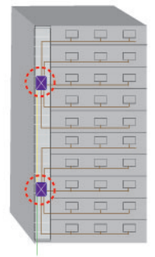

Flat Cable Drop to User(FTTH)



Cable Terminate to ONV(FTTB)



Building Termination(FTTH)



Cable Data	0.9	2.0×3.0
Cladding Diameter (μm)	125	
Operation Time (sec.)	＜90	
Insertion Time (dB)	＜0.35 (1310&1550nm)	
Return Loss (dB)	＞45	
Operation Temperature (℃)	-40~+75	
Tensile Strength (20N)	Δ IL≤0.2dB Δ RL≤5dB	
Mechanical Durability (500 times)	Δ IL≤0.2dB Δ RL≤5dB	

*Specifications may be changed without notice.

Patch Cord, Pigtail And Adapter

- Patch cords, pigtails and adapters
- Cable type: nominal cable, armored cable, super flexible cable; single, duplex, ribbon or non-ribbon; SM, MM
- Fiber type: customer specified
- Adapter type: metal or plastic


FC/UPC


SC/UPC


ST/UPC


FC/APC


SC/APC


LC/APC


12 Fiber Bundle Cable and Connectors


8 Fiber Bundle Cable and Connectors


12 Fiber Ribbon Cable and Connectors


Conventional Adapters


High-strength Plastic Adapters


Armored Patch Cords

Features:

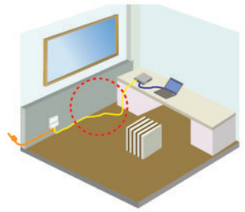
Characteristics	Item		Test Conditions	SM	MM
Fiber	Insertion Loss	UPC	1.31μm LED Light	≤0.2 dB	≤0.4 dB
		APC	1.31μm LED Light	≤0.3 dB	≤0.4 dB
	Return Loss	UPC	1.31μm LD Light	≥55 dB	≥25 dB
		APC	1.31μm LD Light	≥65 dB	
Mechanical Test	Impact Test		1.8m High, 8 Times	<0.1 dB	<0.1 dB
	Vibration Test		Frequency 10~60Hz,1mm Full Aptitude	<0.1 dB	<0.1 dB
	Mechanical Durability		1000 Times	<0.1 dB	<0.1 dB
	Tensile Strength		>100N	<0.1 dB	<0.1 dB
Environment Test	Temperature Cycling		-25℃ ~ +70℃ 2 Cycles	<0.2 dB	<0.2 dB
	High Temperature		+80℃ 2 Hours	<0.2 dB	<0.2 dB
	Low Temperature		-40℃ 2 Hours	<0.2 dB	<0.2 dB
	Humidity and Heat		+40℃, 90%~95%RH for 2 Hours	<0.2 dB	<0.2 dB

Super Flexible Patch Cord/Pigtail

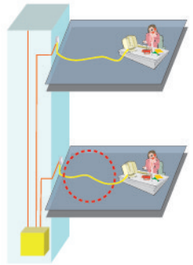
Technical data:

Item	Unit	Safelink
Attenuation (1310μm)	dB/km	0.4
Attenuation (1550μm)	dB/km	0.3
Bending Loss	dB	<0.5dB
Twisting	%	1.5
Minimum Bending Redius	mm	7.5
Flame Retardant Property	--	LSZH
Tension Property	--	Short Term: 200N, long Term: 100N
Anti-lateral Compression	--	Short Term: 3000N/10cm, long Term: 1000N/cm
Impact Test	--	0.3kg, 1m High, 10mm Radius, No Crack, No Trace
Adapter	--	SC or FC
Outer Diameter	mm	4

*Specifications may be changed without notice.


Home Use



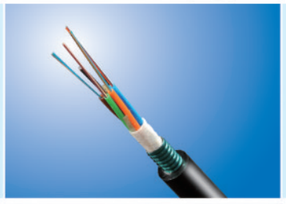
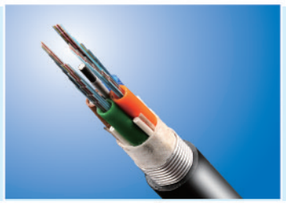
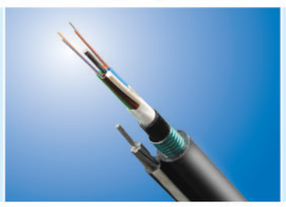
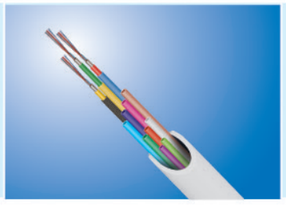

Office Use

Order Guide:

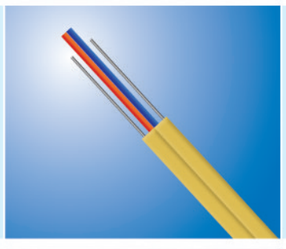
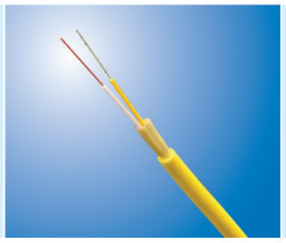
A B C

- Fiber Type：G657A/B
- Fiber Length：(M)3、5、10……
- AVdapter Type：FC、SC、LC……

Optical Fiber Cable for FTTX

Application	Environment	Cable Description	Construction	Max.Fiber Count
Feeder/ Distribution	Direct buried/ Duct	AL/PE laminated tape adhesion sheath provides good moisture resistance.Steel wire CSM,Single Jacket FOC. Standard IEC 60794-3-10		288
Feeder/ Distribution	Direct buried/ Duct	Steel/PE corrugated tape adhesion sheath provides good cruch resistance.Steel wire CSM,Single Jacket FOC. Standard IEC 60794-3-10		288
Feeder/ Distribution	Duct	Special ribbon forming and curing process precisely controlling the geometric parameters and facilitating the splicing of the fiber ribbons. AL/PE Laminated Tape Coated Steel Csm, Single Jacket, Fiber Ribbon FOC Standard IEC 60794-3-10		1152
Feeder/ Distribution	Aerial	Figure-8 Construction Self-support structure provides the cable with high tensile strength, easy aerial installation and low installation cost. Standard IEC 60794-3-20		288
Feeder/ Distribution	Duct	Slotted Construction Slotted cable has advantages like high optical assembling density, good crush resistance and high connecting efficiency which fully meet the requirements on the construction and communication ability in the modern communication development.		1000
Feeder/ Distribution	Duct	Blowing out the micro cable in turn and according to needs; reducing the initial investment cost substantially. Fast blowing speed and long distance; shortening the construction period in a large degree. Reusing the duct resources; solving the problem of tight duct resources.		144

Optical Fiber Cable for FTTX

Application	Environment	Cable Description	Construction	Max.Fiber Count
Drop	Indoor	Joining between outdoor optical fiber cable and residential building, Connecting with the equipments. Small in structure size, light in weight, available for cabling in plot. Figure 8 structure, unique concave groove design for excellent peeling property. All dry core structure for convenient and quick construction		4
Drop	Indoor	Desiged with tight buffer, Strengthened by aramid fiber, high in intensity, light in weight. Soft and flame retardant outer sheath material, with the good performance of anti-elongation and self-extinguishment. For Figure 8 structure, special extrusion processing ensures the cable with excellent separability.		4
Drop	Indoor	High in strength, light in weight, easy for construction and splice. Superior flexibility, suitable for assembling jumpers. Available for the connecting between optical fiber cable equipment and trunk optical fiber cable. Adoption of special materials, applicable for the attachment among engine room, equipments and instruments.		2
Drop	Indoor/ Outdoor	Many fiber cores (up to 144 cores), tight structure, small diameter, light weight and good flexibility. All dielectric structure design, good performance and meets different indoor installation needs. It is not only can be processed to connector which connects to equipment and instrument but also can connect to outdoor cable.		144
Drop	Indoor/ Outdoor	Multicore amoured optical fiber cable for indoor installation is made up of multiple tight buffer fibers, stainless steel flexible hose amoured, with high strength kevlar covered, and out sheath material coated. Available for optical interconnection between equipment engine room for optical communication and optical fiber distribution frame. With excellent mechanical and environmental properties.		12