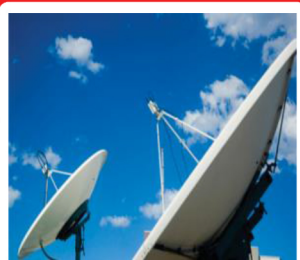# Siechem
Wires & Cables

Optical Fibre Accessories
FTTx Products

Telecom

Power
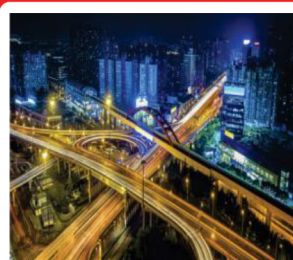
Infrastructure

Railways&Metro

Oil &Gas

Siechem established in 2002 by Mr. P. Damodaren who has an experience for more than 3 decades in Wires & Cables.Corporate office incorporating Design, Technical, IT, Finance, Commercial, SCM, Sales & Marketing in Chennai with a number of sales & marketing personnel supporting world wide customers. Manufacturing Plant in Pondicherry, India spread over 100,000 sq feet. Man Power : 800+ Production capacity: 3000 kms of wires & cables per day. In house R&D, Testing lab, Electron beam cross-linking, Compounding, Complete manufacturing from copper rod to finished cable. Siechem is constructing 500,000 sq feet factory campus about 50 kms away from Chennai Airport. The proposed wire and cable manufacturing capacity will be Million kms / Annum. This new facility also will be operational from .

The proposed plant view is as under:


Sustained Growth

Over the last 15 years Siechem has grown to be a major player in speciality wires & cable segments like Solar, Shipbuilding, Rail coach wiring, Industrial, Aerospace, Appliance & Automotive cables with corporate customers spread across India and exports to 24 countries.

Strength

Tailor-made Siechem ERP to support 22 million+ part-nos, drawings, production / IPQC datasheets offering greater traceability, reliable process & quality control.

Optical Main distribution frame

72 fibres are designed for each unit at the line side, and an integrated tray is used. 96 fibre is designed for unit at the system side, and a rotary distribution panel is used.
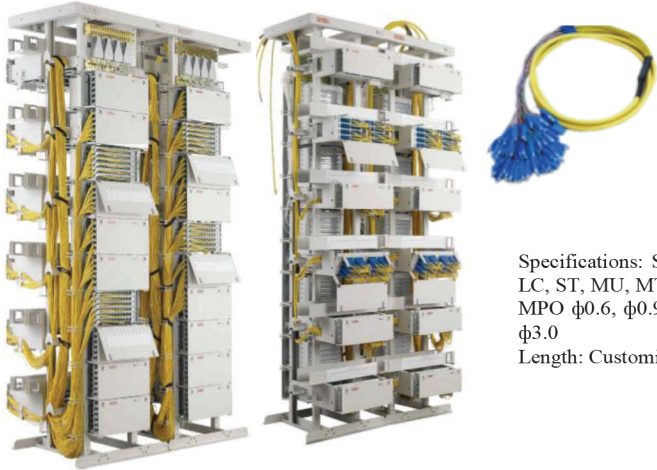
Specifications: SC, FC, LC, ST, MU, MT-RJ
MPO ϕ0.6, ϕ0.9, ϕ2.0, ϕ3.0
Length: Customized

Features

- Optical cables at the line side and pigtails at the system side.
- Routing of the intra-frame and inter-frame patch cord In the OMDF, without entering the optical fibre trough of the equipment room
- Customizable patch cord length, reducing fibre redundancy and twisting.
- Providing a reserved test port.
- Line side (vertical line) at the front, System side (Horizontal line) at the back
- Distribution panel at the equipment side designed in a rotary structure facilitating maintenance.
- Achieving no-cross cable rout for line side cable, pigtail cable, intra-frame and inter-frame patch cords

Optical distribution frame and splicing cabinet

It is designed in the structure of separating splicing and termination between frames, and their functional modules are defined clearly, with a large capacity. It uses the stereo cross-free patch cord management system to ensure clear and well-intended patch cord management, so that the operator can find every fiber rapidly and complete engineering construction and maintenance easily. GPX218-M completes the termination function GPX218-K completes the splicing function. The two types are used together.
GPX218-K is designed in the modular mode and uses the RJ-C splice tray in a regular octagonal structure, featuring the convenient fiber storage and flexible capacity configuration.
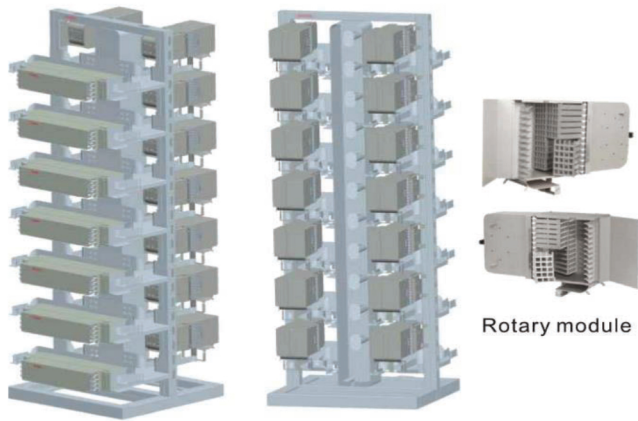
GPX218-K

Features

- Full-closed sheet-metal structure
- Modular design, RJ-C splice tray, flexible capacity configuration
- Optical cable restricted upon entering the frame to implement reasonable routing in the frame
- Used to install the general optical cable fixing and stripping protection connector or the customized GFT-D pigtail stripping protection connector

Ordering Information

Name	Model	Dimensions H x W x D (mm)	Max Capacity Line side (splicing/termination)	Max Capacity System Side (Termination)	Remarks (configurable) Splice and termi nation unit	Remarks (configurable) 96 Fibre termi nation unit
Optical main distribut ion frame	GPX218-PB1W	2600 x 720 x 750	864/864	672	12	7
	GPX218-PB2W	2000 x 720 x 750	576/576	480	9	5
	GPX218-PB3W	2200 x 720 x 750	720/720	576	10	6
	GPX218-PB4W	3300 x 720 x 750	1152/1152	864	16	9

Ordering Information

Name	Model	Dimensions H x W x D (mm)	Max Capacity fibre	Remarks (configurable)
Splicing Cabinet	GPX218-K1W	2600 x 840 x 300	2016	Double sided 168 RJ-C Splice trays (configurable)
	GPX218-K3W	2200 x 840 x 300	1728	Double sided 144 RJ-C Splice trays (configurable)
	GPX218-A1W	2600 x 840 x 300	756	Single side 63 RJ-C Splice trays (configurable)
	GPX218-A3W	2200 x 840 x 300	672	Single side 53 RJ-C Splice trays (configurable)

Optical distribution frame and splicing cabinet

GPX218-M is employs the rotary-type distribution module and uses 96 fiber (Horizontal line) and 72 fibers (Vertical line) as basic unit, featuring flexible capacity configuration and simple expansion.

Rotary module

GPX218-M

Features

- Open-sheet metal structure, double sided operation and spatial patch cord management
- Modular design, 96 fiber or 72 fiber cables as basic unit in termination, flexible capacity configuration
- Rotary type distribution module to facilitate construction and maintenance
- Independent inlet/outlet of optical cables, pigtails and patch cords, without interfering with or crossing each other
- Available in SC/FC adapters
- Multi-frame and combined-frame installation

Ordering Information

Name	Model	Dimensions	Max Capacity		Remarks
		H x W x D (mm)	Vertical line	Horizontal line	
Optical distribution frame	GPX218-M4W	2600 x 800 x 840	1008/672		14 72 fiber distribution units 7 96 fiber distribution units
	GPX218-M5W	2200 x 800 x 840	864/576		12 72 fiber distribution units 6 96 fiber distribution units

High density Optical distribution frame

It can implement a variety of functions such as optical cable inlet, fixing and stripping protection fibre splicing, protection and storage, patch cord storage and management and fibre interconnection and cross connection. In addition it can be used to install value added module units including the optical splitter and wave division multiplexer as required by the customer. It is widely used for optical communication networks applicable to central offices and branches over optical access networks.

Features

- Rack-mount, 19" front operation for inlet, stripping and dispatching of cables.
- Fiber can be led out at the left side and right side of the frame, large capacity and high density, convenience for frame combination of expansion
- Full closed structure without exposed patch cords pleasant appearance and perfect dustproof effect.
- Ribbon fiber provided with dedicated stripping protection connector, perfect and reliable bare fiber protection fixing and grounding

Ordering Information

Name	Model	Dimensions	Max Capacity	Remarks
		H x W x D (mm)	(fibres)	
Large capacity ODF	GPX218-AH3W	2200 x 900 x 300	1152	12 sets 96-fiber splicing & termination units (configurable)
96-fibre splicing & termination unit	F218H-96	3U x 482 x 300	96	SC Adapter

Optical Cross Connection Cabinet

As the optical communication network develops rapidly, it has been applied in quantities. It is used for connection, distribution and dispatching of communication optical fibre cables from the central office to each optical distribution node and provide secure, reliable and flexible fibre and optical cable management devices for communication networks.

Ordering Information

Name	Model	Dimensions H x W x D (mm)	Max Capacity (Splice/termination)	Remarks
Optical Cable cross connection cabinet	GPX218-T5W	754 x 570 x 308 (without pedestal)	144/144/72	non-metal case, single operation, 3 Optical splitter unit (Configurable)
	GPX218-T6W	1447 x 756 x 340	288/288/144	non-metal case, single operation, 4 Optical splitter unit (Configurable)
	GPX218-T12W	1540 x 750 x 320	360/360/144	
	GPX218-T15W	1553 x 1454 x 364	576/576/288	non-metal case, single operation, 8 Optical splitter unit (Configurable)
	GPX218-T7W	1550 x 750 x 620	576/576/288	non-metal case, double operation, 16 Optical splitter unit (Configurable)
	GPX218-T14W	1560 x 1455 x 620	1152/1152/576	
	GPX218-T1W	950 x 515 x 345	144/144/144	metal case, single operation, 3 Optical splitter unit (Configurable)
	GPX218-T2W	1300 x 765 x 345	288/288/144	metal case, single operation, 4 Optical splitter unit (Configurable)
	GPX218-T3W	1370 x 764 x 534	576/576/288	metal case, double operation, 16 box-type Optical splitter (Configurable)
	GPX218-T4W	1370 x 1384 x 534	1152/1152/576	
	GPX218-T13W	1525 x 1384 x 534	1440/1440/576	
	GPX218-T8W	500 x 450 x 305	96/96/144	metal case, single operation, 3 Optical splitter unit (Configurable)
	GPX218-T9W	600 x 450 x 305	144/144/144	
	GPX218-T10W	500 x 380 x 180	48/48	metal case, single operation
	GPX218-T11W	500 x 380 x 130	24/24	

High-Capacity Fibre Distribution Hub

The splicing and termination separated module is used for termination of optical cables, namely, the fiber splicing and fiber termination are completed at different functional areas. It comprises these parts including the optical cable stripping and fixing assembly, splicing module, termination module, fiber storage area, and berthing area, and implements optical cable inlet and fixing, fiber splicing and termination, and optical splitter installation management.

It can work together with the SA series optical splitter module box to implement optical splitting and capacity expansion of optical lines.

Features

- High quality steel sheet, surface plastic spray
- Effective sealing performance dust and splash proof: IP65
- Single door front operation
- Optical splitter in the modular structure, convenience for configuration
- Rotary structure of optical patch panel, convenience for operation.
- Available in FC/SC/ST and duplex LC adaptor
- Storage of the pigtails or fibre patch cords at the front
- Perfect fibre route design to ensure bend radius of fibres
- Reliable optical cable fixing, stripping protection and grounding.

Ordering Information

Serial No	Model	Dimensions H x W x D (mm)	Max Capacity (fibers)	Remarks
1	52252	1250 x 750 x 375	288	
2	52253	1100 x 570 x 375	144	

High-Capacity Fibre Distribution Hub

The connection of the optical cables is integrated splice and termination modules. It includes the optical cable stripping and fixing assembly, splicing module, termination module, fiber storage area, berthing area and implements optical cable inlet and fixing, fibre splicing and termination, and optical splitter installation management.

Features

- Effective sealing performance dust and splash proof: IP65
- Single door front operation
- Optical splitter in the modular structure, convenience for configuration
- Rotary structure of optical patch panel, convenience for operation.
- Available in FC/SC/ST and duplex LC adapter
- Storage of the pigtails or fibre patch cords at the front
- Perfect fiber route design to ensure bend radius of fibers
- Reliable optical cable fixing, stripping performance and grounding.

Ordering Information

Name	Model	Dimensions H x W x D (mm)	Max Capacity (fibres)	Remarks
Fibre distribution box	42749	1550 x 750 x 320	360	
	42750	1550 x 750 x 620	720	
	52177	1499 x 750 x 325	288	

Outdoor Distribution Box

It is applicable to the optical network terminal of the optical access network, used for the connection, distribution and dispatch of optical cables of the out cable and optical terminal equipment.

Features

- Splice and termination separated structure to facilitate expansion and maintenance
- Available in FC/SC/ST and duplex LC adapter
- Dust and splash proof: IP65
- Splice tray of GPX50-E series in rotary structure, convenience for operation
- Box type optical splitter can be added as needed.

Ordering Information

Name	Model	Dimensions H x W x D (mm)	Max Capacity (fibers) (Splicing/Termination)	Remarks
Fibre distribution box	GPX50-E1	300 x 400 x 90	24/48	Outdoor Sheet metal type optical fiber distribution box without fiber patch cord
	GPX50-E2	300 x 450 x 140	48/96	
	GPX50-E3	420 x 450 x 115	72/144	
	GPX50-E4	420 x 450 x 140	92/192	
	GPX50-E5	600 x 500 x 140	144/288	

Fiber Splice Closure

It is a termination protection device that provide optical sealing and mechanical strength continuity. It can be structurally divided into two styles: Cap style (Vertical) fibre splice closure and Horizontal (half) style fibre splice closure.

It is composed of a body and internal members. A horizontal style fibre splice closure is composed of upper case, lower case, seals, cable fixing unit, strength member fixing unit and fiber splice unit. A cap style fiber splice closure is composed of cylinder, base, fibre storage unit, cable fixing unit, strength member fixing unit, seals inlet/outlet hole sealing unit and fiber splicing unit. Each part features reasonable structure high safety and high reliability.

Technical Specifications

Ambient Conditions
- Operating temperature: -40°C ~ +60°C
- Relative humidity: ≤85% (30°C)
- Atmospheric pressure: 70KPa ~ 106KPa
- Storage temperature: -25°C ~ +60°C

Features
- Supporting multiple installation mode including aerial-mounted, bury-mounted, wall-mounted and manhole-mounted.
- Aging resistant plastic
- Fast and easy sealing of closure body and inlet/outlet for optical cables, supporting repeated opening and use
- Perfect fibre route design to ensure bend radius of fiber and large fiber storage area
- Optical splice tray applicable to ribbon and bundle cables, random configuration under the maximum capacity
- Large storage space for splice tray with an overturn angle greater than 90°, easy for maintenance and expansion.
- Internal cable fixing structure, safe and more reliable cable fixation.
- Configurable with grounding device and valve.

Horizontal Style Fiber Splice Closure

GJS–SPW001

Specifications
- No of inlet/outlet holes: 3-inlet/ 3-Outlet
- Inlet/outlet cable diameter: 2 holes: φ4~φ18/ 4holes:φ4~φ13
- Max number of splice tray: 4
- Max number of fiber: 96fiber(bundle)/288 fiber (ribbon)
- Max fibre of splice tray: 24 fiber (bundle)/ 72 fiber (ribbon)
- Sealing style: Rubber sealing

Specifications
- No of inlet/outlet holes: 4-inlet/ 4-Outlet
- Inlet/outlet cable diameter: 4 holes: φ4~φ23/ 4holes:φ4~φ13
- Max number of splice tray: 6
- Max number of fiber: 144fiber(bundle)/432 fiber (ribbon)
- Max fibre of splice tray: 24 fiber (bundle)/ 72 fiber (ribbon)
- Sealing style: Rubber sealing

GJS–SPW002

Ordering Information

Name	Model	Dimension H x W x D (mm)	Max Capacity Bundle	Max Capacity Ribbon	Remarks
Horizontal Style fiber splice closure	GJS-SPW001	360X162X75	96	288	4 Splice assemblies (configurable) Aerial-mounted, manhole-mounted or bury-mounted (optional)
	GJS-SPW002	360X162X75	144	432	6 Splice assemblies (configurable) Aerial-mounted, manhole-mounted or bury-mounted (optional)

Cap Style Fiber Splice Closure

GJS–SPM001

Specifications

- No of inlet/outlet holes: 2-inlet/ 3-Outlet
- Inlet/outlet cable diameter: 3 holes: φ7~φ16/ 1 holes: φ13~φ22(one inlet cable)/ φ7 ~ φ18(two inlet cables)
- Max number of splice tray: 3
- Max number of fiber: 72fiber(bundle)/216 fiber (ribbon)
- Max fiber of splice tray: 24 fiber (bundle)/ 72 fiber (ribbon)
- Sealing style: Heat Shrinking sealing

GJS–SPM002

Specifications

- No of inlet/outlet holes: 2-inlet/ 7-Outlet
- Inlet/outlet cable diameter: 7 holes: φ5~φ11.5/ 1 elliptical hole: φ13~φ22(one inlet cable)/ φ7 ~ φ16(two inlet cables)
- Max number of splice tray: 3
- Max number of fiber: 72fiber(bundle)/216 fiber (ribbon)
- Max fiber of splice tray: 24 fiber (bundle)/ 72 fiber (ribbon)
- Sealing style: Heat Shrinking sealing

GJS–SPM003

Specifications

- No of inlet/outlet holes: 2-inlet/ 7-Outlet
- Inlet/outlet cable diameter: 2 holes: φ7~φ19/ 5 holes: φ7-φ14 1 elliptical holes: φ13~φ22(one inlet cable)/ φ7 ~ φ16(two inlet cables)
- Max number of splice tray: 6
- Max number of fiber: 144fiber(bundle)/432 fiber (ribbon)
- Max fibre of splice tray: 24 fiber (bundle)/ 72 fiber (ribbon)
- Sealing style: Heat Shrinking sealing

Ordering Information

Name	Model	Dimension H x W x D (mm)	Max Capacity Bundle	Max Capacity Ribbon	Remarks
Cap Style fiber splice closure	GJS-SPM001	φ112X295	72	216	3 Splice assemblies (configurable) Aerial-mounted, manhole-mounted or bury-mounted (optional)
	GJS-SPM002	φ112X295	72	216	3 Splice assemblies (configurable) Aerial-mounted, manhole-mounted or bury-mounted (optional)
	GJS-SPM003	φ165X355	144	432	6 Splice assemblies (configurable) Aerial-mounted, manhole-mounted or bury-mounted (optional)

Horizontal Style Fiber Splice Closure

Specifications

- No of inlet/outlet holes: 4-inlet/ 4-Outlet
- Inlet/outlet cable diameter: φ16~φ22
- Max number of splice tray: 4
- Max Capacity: 96fiber(bundle) / 288 fiber (ribbon)
- Max fiber of splice tray: 24 fiber (bundle)/ 72 fiber (ribbon)
- Optical Splitter: One box type optical splitter
- Adaptor: Available in 24 FC/SC/Duplex LC adaptor
- Sealing style: Rubber sealing

GJS–SDW201

Cap Style Multifunctional Fiber Splice Closure

Specifications

- No of inlet/outlet holes: 4-inlet/ 4-Outlet
- Inlet/outlet cable diameter: φ5~φ25
- Max number of splice tray: 10
- Max Capacity: 240 fiber(bundle) / 720 fiber (ribbon)
- Max fiber of splice tray: 24 fiber (bundle)/ 72 fiber (ribbon)
- Optical Splitter: One box type optical splitter
- Adaptor: Available in 24 FC/SC/Duplex LC adaptor
- Sealing style: Heat Shrinking sealing

GJS–SDM201

Ordering Information

Name	Model	Dimension H x W x D (mm)	Max Capacity fibers Bundle	Max Capacity fibers Ribbon	Remarks
Horizontal Style multifunctional fiber splice closure	GJS-SDW201	450x220X110	96	288	Adaptor and optical splitter (configurable) Aerial-mounted, manhole-mounted or bury-mounted (optional)
Cap Style multifunctional fiber splice closure	GJS-SDM201	φ220X450	240	720	Adaptor and optical splitter (configurable) Aerial-mounted, manhole-mounted or bury-mounted (optional)

Fiber Distribution Hub

It is applicable to the network structure where optical splitter are distributed outside the central office. It consists of such parts as optical cable stripping and fixing assembly, optical splitter module, splicing module and storage area completes the functions of optical cable inlet fixing, fiber splicing and termination, optical splitter installation management and coiling.

Storage fixing and splicing of single-fiber drop cable, and implements optical splitting and capacity expansion of optical lines.

The outdoor model supports wall or pole mounting, while the indoor model supports corridor wall or light current well wall mounting.

It can be classified into plastic hub and sheet metal hubs by different hubs material.

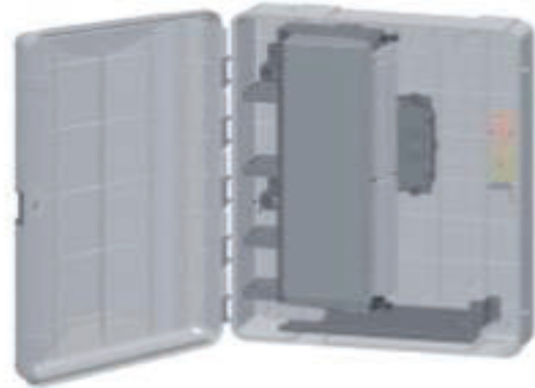### Fiber Distribution Hub

SNC Series

SN Series

Features

- Optical Splitter unit Rotary type distribution panel, layered cable management
- Blow type drop cable can be spliced or mechanically spliced or have a connector made on the field and redundant length can be stored inside.
- A Bow type drop cable led in can be fixed at the splice tray when being spliced or mechanically spliced with a retention force of 4kg
- Backbone fibre backup, reserved for future expansion
- Perfect fibre route design to ensure bend radius of the fibre
- Indoor product applicable to tap off application of backbone optical cable.

Features

- Integrated Optical Splitter, Rotary type distribution panel, layered cable management
- Blow type drop cable connectors made on the field and redundant length can be stored inside.
- Smaller Size under the same splitting port.
- Backbone fibre backup, reserved for future expansion
- Berthing area of temporary storage of pre-service lines.
- Multiple cable outlet modes, combination of drop cables and common optical cables
- Perfect fibre route design to ensure bend radius of the fibre
- Indoor product applicable to tap off application of backbone optical cables.

Ordering Information

Name	Model	Max Capacity	Dimensions H x W x D (mm)	Remarks
Fibre distribution Hub	GPx51-SN1	2 x 16	300 x 350 x 110	Indoor
	GPx51-SN2	2 x 32	445 x 340 x 110	
	GPx50-SN1	2 x 16	300 x 350 x 110	Outdoor
	GPx50-SN1	2 x 32	445 x 340 x 110	

Ordering Information

Name	Model	Max Capacity	Dimensions H x W x D (mm)	Remarks
Fibre distribution Hub	GPx51-SN1C	2 x 32	300 x 350 x 110	Indoor
	GPx51-SN2C	2 x 64	445 x 340 x 110	
	GPx50-SN1C	2 x 32	300 x 350 x 110	Outdoor
	GPx50-SN1C	2 x 64	445 x 340 x 110	

Sheet metal Fiber Distribution Hub

SHW Series

Fiber Distribution Hub

SP Series

Features

- Integrated Optical Splitter module, the drop cable can be spliced or mechanically spliced or have connector made on the field.
- Berthing area of temporary storage of pre-service lines.
- Applicable to various applications
- Multiple cable outlet modes, combination of drop cables and common optical cables
- Indoor product applicable to tap off application of backbone optical length.

Features

- Corridor or light current well wall mounted.
- Plastic and rubber hub, pleasing appearance, small size, suitable for most applications.
- Mini optical splitter
- Single Bow-type drop cable fixed piece by piece, easy for construction and maintenance.
- Indoor type applicable to tap off application of backbone optical length.

Ordering Information

Name	Model	Max Capacity	Dimensions H x W x D (mm)	Remarks
Fibre distribution Hub	GPx51-SH1W	2 x 16	480 x 320 x 100	Fixed Type
	GPx51-SH2W	2 x 32	480 x 320 x 100	
	GPx51-SH3W	2 x 64	550 x 450 x 100	

Ordering Information

Name	Model	Max Capacity	Dimensions H x W x D (mm)	Remarks
Fibre distribution Hub	GPx51-SP1	1 x 4	165 x 125 x 35	
	GPx51-SP2	1 x 8	197 x 195 x 50	
	GPx51-SP3	1 x 16	240 x 180 x 60	

Fiber Distribution Hub

It is applicable to the optical terminal to complete connection, distribution and dispatching between subscriber cables and optical fibre terminals, and is widely used for optical communication network projects.
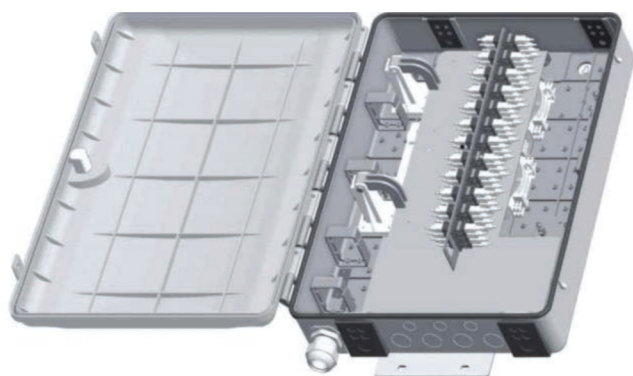
HA/DA Series

Features

- Splice and termination separated structure to facilitate expansion and maintenance.
- Plastic and rubber body, pleasant appearance.
- Splice tray in rotary structure, convenience for operation
- Dust and splash proof: IP 65
- Common optical cables or drop cables can be led out.

Ordering Information

Name	Model	Max Capacity (Splicing/Termination)	Dimensions H x W x D (mm)	Remarks
Fibre distribution Hub	GPx51-HA3	24 x 24	300 x 350 x 110	Indoor
	GPx51-HA4	48 x 48	445 x 340 x 110	
	GPx50-DA1	24 x 24	300 x 350 x 110	Outdoor
	GPx50-DA2	48 x 48	445 x 340 x 110	

Splice Box

As an optical access device for FTTH, it can implement connection and distribution of backbone cables and subscriber cables. It is all wall mounted, and can be used and maintained conveniently.
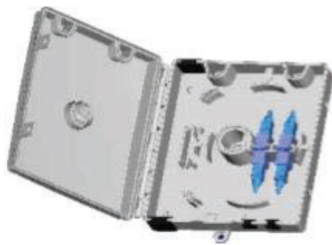
Features

- Corridor of light current well wall mounted.
- Plastic and rubber hub, Pleasing appearance, small size suitable for most application.
- Bow-type drop cable can be spliced or mechanically spliced, and redundant length can be stored in the hub.
- Single Bow-type drop cable fixed piece by piece, convenience for construction and maintenance.
- Applicable to tap-off application of backbone optical cables.
- Perfect fibre route design to ensure bend radius of fibres.

Ordering Information

Name	Model	Max Capacity	Dimensions H x W x D (mm)	Remarks
Fibre distribution Hub	GPx51-FB1	6-fibre	165 x 125 x 35	Plastic Box
	GPx51-FB2	12-fibre	197 x 195 x 50	Plastic Box
	GPx51-FB3	24-fibre	240 x 180 x 60	Plastic Box

Fiber Termination Box

Fibre termination box is suitable for feeder cable and drop cable through connection. It protect the role of optical fiber connectors. It provide sites for welding, switching of distribution cable and drop cable. It is a device to be managed by operator which completed the information channel management of user. It can be installed optical splitter and used as a fibre distribution box.

2 Fibre optical terminal box

6 Fibre optical terminal box

12 Fibre optical terminal box

**24 Fibre optical terminal box**

Features

- Corridor of light current well wall mounted
- Plastic and rubber body, Pleasant appearance
- Termination modes: mechanical splicing (by mechanical splice) and splicing.
- Available in SC/Duplex LC adapters
- Leading in/out drop cable for fiber.
- Perfect fiber route design to ensure bend radius of fibers

Ordering Information

Name	Model	Max Capacity (Splicing/termination)	Dimensions H x W x D (mm)	Remarks
Fibre termination box	GPx51-GA5	2/2	150 x 130 x 33	Indoor
	GPx51-GA4	4/4	165 x 125 x 35	Indoor
	GPx51-GA2	6/6	165 x 125 x 35	Indoor
	GPx51-GA1	12/12	197 x 195 x 50	Indoor/Outdoor
	GPx51-GA3	24/24	220 x 175 x 53	Indoor

Fiber Storage Box

It is used for FTTH application in old building reconstruction and requires completing line construction at a time. It can be used to store 10-15m drop cables.
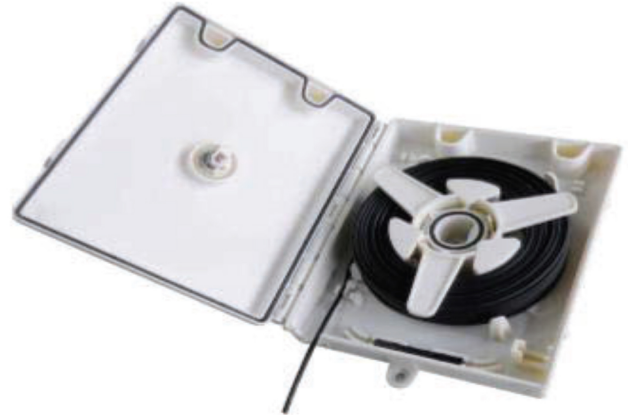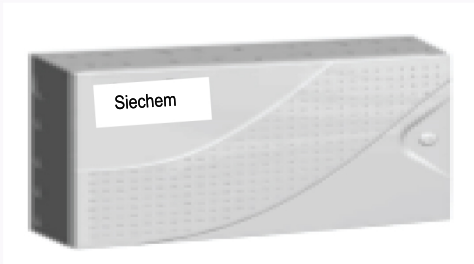
Features

- Indoor and Outdoor application, dust and splash proof: IP65
- Corridor of light current well wall mounted
- Plastic box, Pleasant appearance
- Storing 15m drop cable at most
- Supporting the storage of a connector
- Perfect fiber route design to ensure bend radius of fibers.

Ordering Information

Name	Model	Max Capacity	Dimensions H x W x D (mm)	Remarks
Fibre storage box	GPx50-F1	Storing 15m drop cable	150 x 120 x 35	

Household Information Box Series

It is used for FTTH application in old building reconstruction and requires completing line construction at a time.


SPX2-B1

Features

- Plastic doorframe and cover, pleasant appearance
- Plastic bottom case (Type-A box), metal bottom case (Type-B box)
- Removable doorframe and door panel, convenient field construction and operation
- Knock down inlet holes on all sides of the box, convenience and routing
- Type-A box for installing network distribution modules and telephone distribution modules
- Type-B box for installing network distribution modules, telephone distribution modules, Cable TV distribution modules and security modules.

Ordering Information

Name	Model	Dimension H x W x D (mm)	Remarks
Household information box (wall-embedded)	SPX2-A1	320x274X120	
Household information box (wall-mounted)	SPX2-B1	420x300X120	
Household information box (wall-embedded)	SPX2-B2	450x330X140	

Socket Outlet
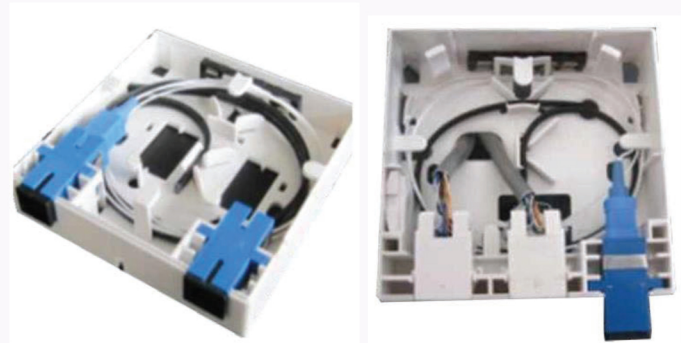
Fiber Socket Outlet

Optoelectronic Socket Outlet

Features

- Independent Use
- Quality Polycarbonate (PC) material, with perfect fireproof performance
- Allowing storage of a small quantity of redundant fibres

Ordering Information

Name	Dimension H x W x D (mm)	Remarks
Fibre Socket-Outlet	86x86X24	2-Fibre
Optoelectronic Socket-Outlet	86x86X30	One optical fibre and two electric wires

Features

- Independent Use
- Quality Polycarbonate (PC) material, with perfect fireproof performance

Ordering Information

Name	Model	Dimension H x W x D (mm)	Remarks
Single-port socket outlet	GC-BS-G1	86x86X12	
Double-port socket outlet	GC-BS-G2	86x86X12	
Triple-port socket outlet	GC-XM-G3	86x86X17.5	
Quadruple-port socket outlet	GC-BS-G4	86x86X36	

Mechanical Splice

Mechanical Splicing maintains physical contact between mating Fibers. Fibres can be spliced simply in this way in a very short time. It can be used 900/900μm, 250/250μm, 250/900μm fibers.

Mechanical Splice | Tool

Features
- Fastest field installation
- Outstanding optical performance
- Well Suited for FTTx applications
- Well done in less than two minutes

Performance

Item	Specifications
Connection loss	Less than 0.3dB (Less than 0.15dB in average)
Return loss	More than 40dB
Dimensions	L 40mm W 4mm H 4mm
Applicable Fibre	Dia 0.25mm and 0.9mm single fibre (SM/GI)
Tensile	φ0.9mm≥4N, φ0.25mm≥2N
Durability	≥10 times
Operation Temperature	-40˚C～+80˚C
Storage Temperature	-40˚C～+80˚C

Ordering Information

| Name	Code	Type	Remark
Mechanical Splice	483140000	MS025	
Installation tool	50200010	MSK025-01	Especial Tool
Fiber Cleaver	50101270	MSK025-02	General Tool
Fiber Stripper	50200620	MSK025-03	General Tool

Field Connector

In FTTH, optical drop cable should wind its way through the wall piping, and every house owns different requirement of cable length, traditional factory patch cord become very difficult to meet the FTTH.
Siechem filed connector can perfect fulfill the custom cable length, it can be installed in field, no epoxy, no power need, It can be installed in 2 minutes.
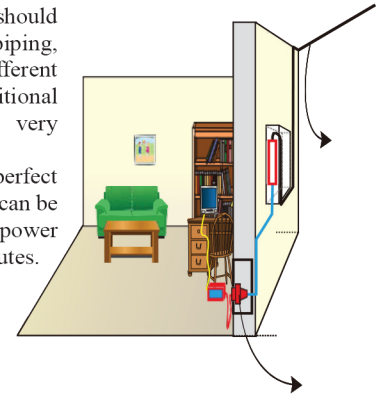
Features:
- No epoxy, no polishing
- Will Saited for FTTX
- Less than 2 minutes assembly time
- Outstanding optical performance
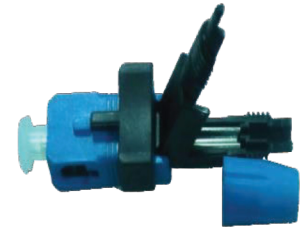
Performance

Insertion loss	≤0.3dB (typical) 0.5dB(Max)		
Return loss	≥40dB		
Material	UL-V0		
Mechanical Performance	Tensile	30N	ΔIL＜0.3dB
	Durability	10 times	ΔIL＜0.3dB
Environment	Operating Temperature	-40℃～+80℃	
	Storage Temperature	-40℃～+80℃	
	Operating Humidity	≤85%(+30)℃	

Steps

Tools

Ordering Information

Item	Code	Remark
Field connector	23004820	Only fit to drop cable
Jacket stripper	5100030	Especial Tool
Fiber stripper	5100000	Especial Tool
Clean tool	5100010	Especial Tool
Field connector assembly tool	5100020	Especial Tool
Cutter	-	General Tool
End-face inspector	-	General Tool

Jacket stripper

Clean tool

Fiber stripper

Field connector assembly tool

Product Specifications are subject to change without Notice.

Siechem
Wires & Cables

ODN Solution for Home

POE Reverse Power Supply Equipment

POE (Power over Ethernet) is a technology that can supply DC power from IP based terminal (such as IP telephones, WLAN access points (Aps) and IP Cameras) in addition to transmitting data signals for these terminals, without any change to the existing Ethernet Cat.5 cabling infrastructure. POE is also called LAN-based power supply system or active Ethernet, or called Ethernet power supply for short.

Compositions

A complete POE system includes two parts power sourcing equipment (PSE) and power device (PD). PSE is a device that supplies power for customer premises equipment over the Ethernet, and is also a manager of the entire POE power supply process. PD is the PSE load that receives power supply, that is, a kind of customer premises equipment of the POE system

POE Power Sourcing Equipment	POE Power Sourcing Equipment (insertion type)	Power Device

Features

- Over Current short-circuit protection, perfect lightening protection
- Input voltage: AC 220V or DC 48V (optional)
- Output voltage: DC 48V, varying depending upon the user's actual needs
- Max. output power: 48W

Ordering Information

Name	Model	Dimension H x W x D (mm)	Remarks
Power Sourcing Equipment (PSE)	PSE01	38X58X120	Input 220V AC, Output 48V+data 25W
Power Sourcing Equipment (PSE)	PSE01A	38X58X100	Input 220V AC, Output 48V+data 25W
Power Device (PD)	PD120100	72X55X20	Input 48V DC + data Output 12V, 1.5A

Flexible Fiber Patch Cord

It is applied to distribution facilities at the subscriber end, such as jumping Connection between the fiber socket and the desktop ONU.

Features

- Fiber in Compliance with ITU.T G652D and G657
- Produced by using special process of glass fiber surface including polymeric coating
- Perfect mechanical performance to protect the fiber against external harm such as pressure, bending and twisting
- With a service life 500 times than common optical fiber Patch cord.

Technical Specifications

- Insertion loss: ≤0.3dB
- Reflection loss: ≥55 (UPC)
  - ≥65 (APC)
- Operating Temperature: -40°C ~ +80°C

Ordering Information

| Name	Code	Dimensions	Remark
Flexible Fiber Patch Cord	SWX5-SC/UPC-0103B3	Single, SC, 3m	
Flexible Fiber Patch Cord	SWX5-FC/UPC-0103B3	Single, SC, 3m	

Siechem
Wires & Cables

PLC Splitter

A PLC Splitter has one or two input ports and multiple output ports for dividing an optical signal. It was widely used in PON system

Features:

- Low insertion loss
- Broadband Operation
- Excellent uniformity
- Low polarization dependent loss
- Low Excess loss
- The Quality is more credible and stable than fusion coupler splitter
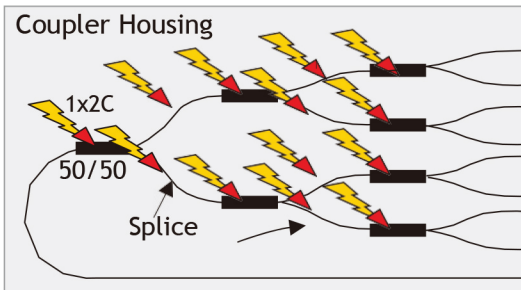
Fusion Coupler Splitter
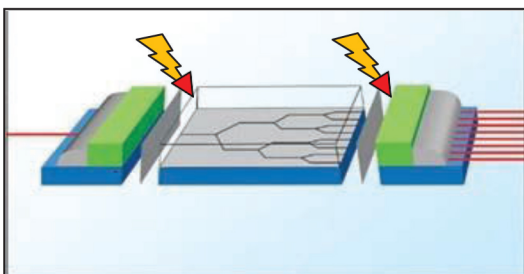
PLC Splitter

Performance
1XN PLC Splitter Performance

Parameters		1X2	1X4	1X8	1X16	1X32	1X64
Opeerating Wavelength(nm)		1260nm-1650nm					
Insertion loss(dB)	Max	3.9	7.2	10.5	13.7	16.9	20.8
Uniformity(dB)	Max	0.6	0.8	0.8	1.2	1.5	2.5
Return loss(dB)	Min	50	50	50	50	50	50
PDL(dB)	Max	0.2	0.2	0.3	0.3	0.3	0.4
Directivity(dB)	Min	55	55	55	55	55	55
Pigtail Length (m)		1.5(±0.1) or Customer Specified					
Fibre Type		G657A or Customer Specified					
WDL (dB)		≤0.8	≤1.0	≤1.2	≤1.3	≤1.5	≤1.5
Temperature Stability (dB)		≤0.5 (0.002 / ˚C)					
Operating Temperature		-40˚C~85˚C					
Storage Temperature		-40˚C~85˚C					

Note: All measurements were done at room temperature, and specifications exclude connectors.

2XN PLC Splitter Performance

Parameters		2X2	2X4	2X8	2X16	2X32	2X64
Opeerating Wavelength(nm)		1260nm-1650nm					
Insertion loss(dB)	Max	4.2	7.5	10.8	14.2	17.5	21.0
Uniformity(dB)	Max	1.1	1.2	1.2	1.5	1.8	2.5
Return loss(dB)	Min	50	50	50	50	50	50
PDL(dB)	Max	0.3	0.3	0.3	0.3	0.4	0.5
Directivity(dB)	Min	55	55	55	55	55	55
Pigtail Length (m)		1.5(±0.1) or Customer Specified					
Fibre Type		G657A or Customer Specified					
WDL (dB)		≤1.0	≤1.2	≤1.5	≤1.5	≤1.8	≤2.0
Temperature Stability (dB)		≤0.5 (0.002 / ˚C)					
Operating Temperature		-40˚C~85˚C					
Storage Temperature		-40˚C~85˚C					

Note: All measurements were done at room temperature, and specifications exclude connectors.

1 X 8 PLC Splitter Optical attenuation curve (1250nm~1660nm)

	1x2	1x4	1x8	1x16	1x32	1x64	1x128	2x4	2x8	2x16	2x32	2x64	2x128
L	100			120		140	120	180	100		120		140	180
W	80			80		115	80	150	80		80		115	150
H	10			18		18	25	22	10		18		18	22
MxN	70x74			80x74		80x74	80x74	142x140	70x74		80x74		100x106	142x140

Bare Fiber PLC Splitter

Mini-Package PLC Splitter

PLC Splitter	1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32	2x64
L	40			50		60	50			60		60
W	4			7		12	7			7		12
H	4			4		4	4			4		4

	1/2x2	1x4	1x8	1x16	1x32	1x64	2x4	2x8	2x16	2x32	2x64
L	60		80	100		70		80			100
W	12		20	40		12		20			40
H	4		6	6		4		6			6

Box PLC Splitter

For real world applications, Siechem Provide variety of cassette or box type Splitter products with Connectors. They are available in either module cassette, rack-mount or wall-mount box with fiber diameter up to 3mm.

Ordering Information

Code	Package Type		Channels		Fibre		Connectors		Pigtail Length	
	BM	Bare Splitter	102	1x2	9	0.9mm	0	Connectors	08	0.8m
	MM	Mini Package Splitter	104	1x4	2	2mm	1	SC/UPC	15	1.5m
	PM	BOX Splitter	_		3	3mm	2	SC/APC	XX	customized
SPSM			164	1x64			3	FC/UPC		
			202	2x2			4	FC/APC		
			204	2x4			5	LC/UPC		
			_	_			6	LC/APC		
			264	2x64			X	Customized		

Tray-type Optical Splitter Unit

It could expand the capacity, installed at the NTM integrated modules of the rack, cabinet, unit, optical cable cross connection cabinet. Installation position is same as the NTM module of GPX218 series and can be interchanged from each other.

Pigtail Type

Adapter Type

Adapter Type

Module-type Optical Splitter Unit

It is used for enclosing the mini optical splitter and adaptor and it can store and coil fibers in the hub. It makes the optical access route clear and tidy inside the fibers distribution hub and better secure the optical splitter. It has such advantage as flexible configuration, small size and reasonable cabling.
According to the mini optical splitter installed inside, Module- type optical splitter unit is classified:
1 (2) x 4, 1 (2) x 8, 1 (2) x 16, and 1 (2) x 32.

SB-P1 **SB-P2** **SB-P3**

SB-PA1 **SB-PA2** **SB-PA3**

Product Information

Name	Model	Splitting Ports	Adapter	Dimension H x W x D (mm)	Unit	Remarks
Optical Splitter Unit	NTM-SA1	\	\	25X376.5X265	Set	Pigtail, 1 NTM installation position
	NTM-SB1	\	\	25X361.5X265	Set	Pigtail, 1 NTM installation position
	NTM-SD1	2x16	18	25X376.5X255	Set	SC, 1 NTM installation position
	NTM-SD2	2x32	36	50X376.5X265	Set	SC, 2 NTM installation position
	NTM-SE1	2x16	18	25X360.5X255	Set	SC, 1 NTM installation position
	NTM-SE2	2x32	36	50X360.5X255	Set	SC, 2 NTM installation position

Product Information

Name	Model	Dimension H x W x D (mm)	Remarks
1 (2) x 4 Optical Splitter Unit	SB-P4	128X100X25	Plastic and rubber material, SC
1 x 8 Optical Splitter Unit	SB-P1	128X100X25	Plastic and rubber material, SC
1 (2) x 16 Optical Splitter Unit	SB-P2	128X100X50	Plastic and rubber material, SC
1 (2) x 32 Optical Splitter Unit	SB-P3	265X100X50	Plastic and rubber material, SC
1 (2) x 4 Optical Splitter Unit	SB-PA4	128X100X25	Plastic material, LC
1 x 8 Optical Splitter Unit	SB-PA1	128X100X25	Plastic material, LC
1 (2) x 16 Optical Splitter Unit	SB-PA2	128X100X50	Plastic material, LC
1 (2) x 32 Optical Splitter Unit	SB-PA3	265X100X50	Plastic material, LC

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Approvals & Licenses												
ISO 9001	ISO 14001	IATF 16949	OHSAS 18001	AS 9100	ISO 45001	UL	cRU	RU	CSA	TUV	RDSO
Lloyd's Register	ISI	ESMA	IHQ Indian Navy	CE	REACH	RoHS		IRS	CSIR	Ford	DGQA