Siechem
Wires & Cables

Optical Fiber Accessories
Core Communication 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.

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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
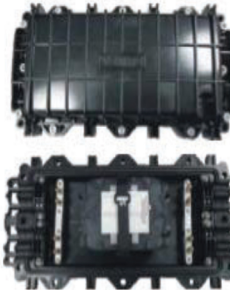
GJS–SPW002

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

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)

Product Specifications are subject to change without Notice.

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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: 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)
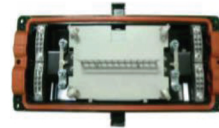- Sealing style: Heat Shrinking sealing

GJS–SPM003

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

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 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)

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)

Product Specifications are subject to change without Notice.

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 support corridor wall light current wall mounting.

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

Fiber Distribution Hub
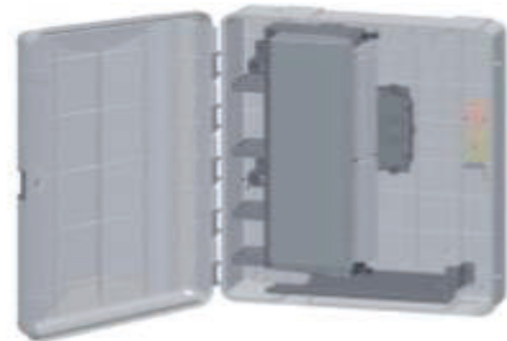

SNC Series

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 cables.

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	Indoor
	GPx50-SN1	2 x 16	300 x 350 x 110	Outdoor
	GPx50-SN1	2 x 32	445 x 340 x 110	Outdoor

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	Indoor
	GPx50-SN1C	2 x 32	300 x 350 x 110	Outdoor
	GPx50-SN1C	2 x 64	445 x 340 x 110	Outdoor

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Sheet metal Fiber Distribution Hub

Fiber Distribution Hub

SHW Series

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 cables.

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 cables.

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 fibers terminals, and is widely used for optical communication network projects.

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.
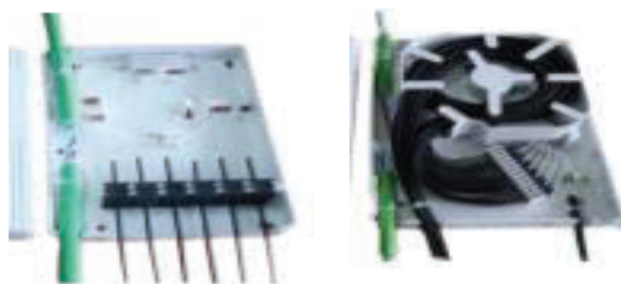
HA/DA Series

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.

Features

- Corridor of light current well wall mounted.
- Plastic and rubber body, 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 (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	

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

Product Specifications are subject to change without Notice.

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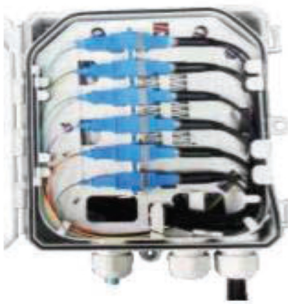
Fibre Termination Box

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.
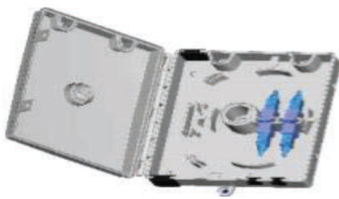
2 Fibre optical terminal box

6 Fibre optical terminal box

12 Fibre optical terminal box

24 Fibre optical terminal box

Features

- Corridor, 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.
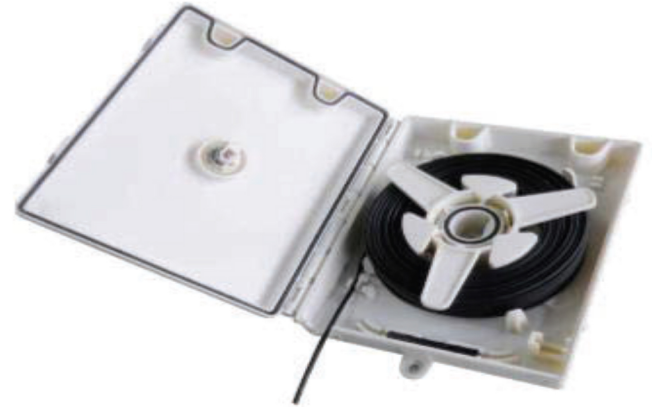
Features

- Indoor and Outdoor application, dust and splash proof: IP65
- Corridor or 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	

Product Specifications are subject to change without Notice.

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
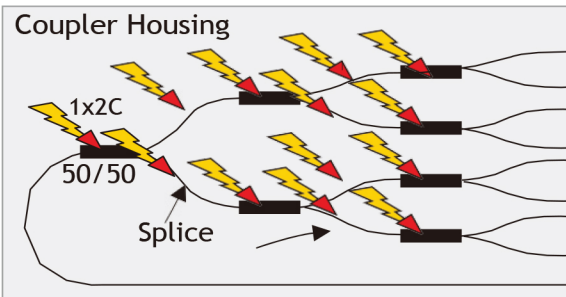
Fusion Coupler Splitter
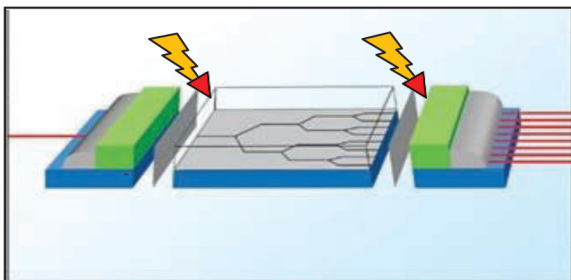
PLC Splitter

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.

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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	180	100	120	140	180
W	80	80	115	150	80	80	115	150
H	10	18	18	22	10	18	18	22
MxN	70x74	80x74	80x74	142x140	70x74	80x74	100x106	142x140

Mini-Package PLC Splitter

Bare Fibre 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 fibre 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		

Single Mode Dual Window FBT Splitter
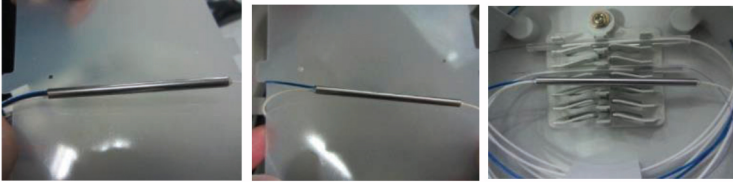
Features
Low Excess Loss
Low PDL
High stability and
reliability

Applications
CATV
Testing Instruments
Optical Communication System
FTTH, FTTB

Performance

Parameter		P Grade	A Grade
Operating wavelength (nm)		1310±40＆1490±10＆1550±40	
Typical excess loss (dB)		0.10	0.15
Insertion Loss(dB)	50/50	≤3.60	≤3.80
	40/60	≤ 4.70/2.70	≤ 4.90/2.90
	30/70	≤ 6.00/1.90	≤6.30/2.10
	20/80	≤ 7.90/1.20	≤8.40/1.40
	10/90	≤11.30/0.65	≤12.00/0.80
	5/95	≤14.60/0.40	≤15.50/0.50
	2/98	≤18.80/0.30	≤19.50/0.40
	1/99	≤22.50/0.25	≤23.50/0.35
PDL (dB)		≤0.15	≤0.20
Directivity (dB)		≥55	
Operating temperature (°C)		-40~+85	

Ordering Information

Configuration	1×2 or 2×2		
Fiber type	G652D or Customer		
Fiber lead length	1 meter, others on request		
Connector type	SC;FC,LC/UPC or APC		
Pigtail type	250μm bare fiber	900μm loose tube	900μm/2mm/3mm loose tube
Dimensions	Φ3.0mm×54mm	Φ3.0mm×54mm	90mm×14mm×8.5mm

If you want full pitch (250μm) standard specification, please contact with us.

V- Groove and Fiber Array

Siechem V-grooves are made from micro-machined Quartz, which provide excellent fiber-to-fiber pitch and planarity. The Quartz V-groove have the same coefficient of thermal expansion with Optical fiber, UV transparency, and high durability. Siechem can offer customizing fiber array assemblies. Fiber Arrays have angle polished end-faces and can be used for coupling to many kinds of PLC application devices, such as Splitter, AWG, MEMS switch, arrayed detector and integrated optical device

Features:
- Telcordia™ GR-1209 and GR-1221 qualified
- Excellent Reliability
- Custom configurations can be designed
- Custom angle polishing available

Applications:
- AWG, Splitter, VOA, MEMS Switch
- Integrated Optics as Liquid Crystal Switch
- Collimated fiber array and micro-optics chip
- VCSEL and Arrayed Laser, Detector
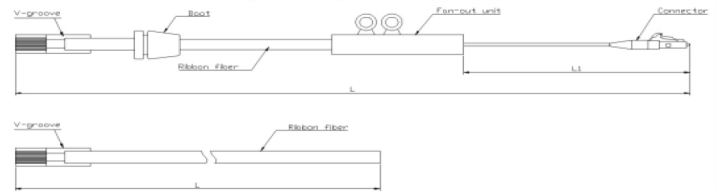
Fibre Array Specification

Number of Fibers	unit	1	2	4	6	8	12	16	32	40	48	64
Array Width(W)	mm	2.5	2.5	2.5	2.5	2.5	3.5	3.5	5.7	9.0	9.0	10.0
Array Length(L)	mm	8.0	10	10	10	10	10	10	12	12	12	12
Core-Pitch	μm	\	250±0.5					127±0.5				
Array Height(H)	mm	2.5										
Ribbon Length (L1)	mm	Customization										
Fiber Length (L2)	mm	Customization										
Polishing Angle(Θ)		0,-8,+8(±0.3)										
Connectors		SC,LC,FC,MU,										

Ordering Information

X	X	---XX	XXX	---XX
V-groove Channels	Pitch	Length	Connector※	Fiber type
V1: 1 channel			SC/UPC	G652
V2: 2 channel	A: 127μm	01: 01 meter	SC/APC	G655
V4: 4 channel	B: 250μm	02: 02 meters	LC/UPC	G657A
		03: 03meters	LC/APC	G657B
V64: 64 channel				PM Fiber

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Fan-Out Pigtail/Patch cord

Fan-out pigtail / patch cord is becoming more and more popular for fiber installation project. It is definitely an efficient and economical solution in site termination or splicing.

Item	Singlemode UPC	Singlemode APC	Multimode
Insertion Loss	≤0.2dB(typical) 0.3dB(Max)	≤0.2dB(typical) 0.3dB(Max)	≤0.2dB(typical) 0.3dB(Max)
Return Loss	≥50dB	≥60dB	≥25dB
Durability	Min 500 mate times		
Operating Temperature	-40 C to +85 C		
Cord length	Customized		
Optical fibre	2-48 fiber		
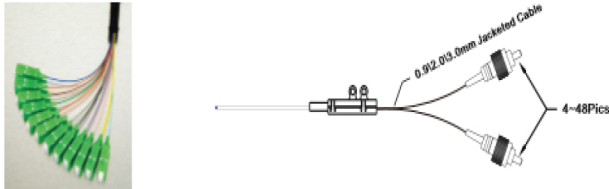
Ordering Information

X	-X	X	-X	x	x	x
Cable Name	Connector type	End surface type	Fiber cores	Fiber length	Pigtail/Patchcord	Fan-Out fiber outer diameter
FZ:Multicore Ribbon Cable	FC SC LC ST MU MT - RJ	PC SPC UPC APC	04:4 cores 06:6 cores 08:8 cores 12:12 cores 2x6:12 cores 3x4:12 cores	01:1m 03:3m 05:5m 10:10m	A:Pigtail B:Patchcord	1:Φ0.9 2:Φ2.0 3:Φ3.0

※ Cable length customized
※ Example:
FZ-SC/UPC-1203.6A1: Single mode 12-core ribbon Pigtail (SC/UPC, 3.6 m long and Φ0.9 Fan-out cable)
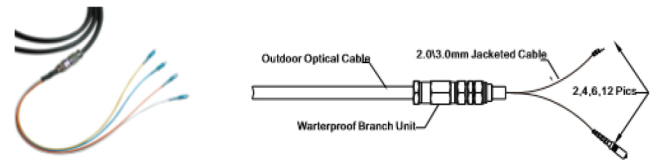※ For transfer patch cord, please contact us
For drawings, technical data's or samples configuration other than stated above, please feel free to contact us

Waterproof Pigtail

Waterproof pigtails provide protection from environments, The Fan-out cable sealed with stainless metal branch unit. Waterproof pigtails with high-performance single mode or multimode connectors are widely used in CATV.

Item	Singlemode UPC	Singlemode APC	Multimode
Insertion Loss	≤0.2dB(typical) 0.3dB(Max)	≤0.2dB(typical) 0.3dB(Max)	≤0.2dB(typical) 0.3dB(Max)
Return Loss	≥50dB	≥60dB	≥25dB
Durability	Min 500 mate times		
Operating Temperature	-40 C to +85 C		
Cord length	Customized		
Optical fibre	1-6 fiber		

Ordering Information

WF	X	X	-X	X	-X	x	x
Water Proof Pigtail	Mode	Fiber Type	Connector type	End surface type	Fiber cores	Fiber length	Fan-Out fiber outer diameter
	Multi mode Single mode	1.G652 2.G655 3.50/125 4.62.5/125	FC SC LC ST MU MT - RJ	PC SPC UPC APC	01:1 cores 02:2 cores 04:4 cores 06:6 cores 08:8 cores 12:12 cores	01:1m 03:3m 05:5m 10:10m	1:Φ2.0 2:Φ3.0

※ Cable length customized
※ Example:
WFM3-SC/UPC -0210A2: multimode duplex water proof pigtail (SC/UPC, 10m, mutimode50/125, Φ3.0 Fan-out cable)

For drawings, technical data's or samples configuration other than stated above, please feel free to contact us

Drop Cable Pigtail

Commons SC connectors, specially designed for Drop fiber optic cable characteristics with independent intellectual property rights of the new assembled Drop fiber optic pigtail, compare to the currently widely used Field connector assembly, the drop fiber optic cable pigtail have more stable optical transmission.

The product is suitable for FTTx FTTH Wiring with a new Drop fiber optic cable pigtail + Fuse splice (or mechanical splice) connections to replace the Field connector (or mechanical splice) assembled home cable + Fuse splice (or mechanical splice) connection; In the field wiring, general use the wiring of reverse penetration drop fiber optic cable from the client to the cable splitting box.

Drop Cable Pigtail

Technical Specification

Item	Technical parameters
Applicable to fiber optic cable	3.0x 2.0mm Drop cable
Insertion Loss(include Repeatability)	≤0.35dB
Interchangeability	ΔIL≤0.2dB
Fiber optic mode	Single-Mode
Return Loss	SM:≥50dB（UPC）、≥60dB（APC）
Fiber Undercut and Protrusion	-100 ~+50nm
Radius of curvature	PC/UPC:10～25mm；APC:5～12mm
Apex offset	≤50um
APC Angle	8±0.3°
Operating Temperature	-25℃～+70℃
Tensile strength	≥70N
Storage Temperature	-40℃~+85℃
Mechanical durability(500 times)	ΔIL≤0.3dB ΔRL＜5dB
Dimensions(mm)	52×9×8(SC)

Product Information

PN	Technical Parameter	Remark
301078650	Simplex(SM) SC/UPC drop cable pigtail/GJXFH-G657A1,G-FRP strength member; 5.0m	The pigtail length customer specified
301080670	Simplex(SM) SC/APC drop cable pigtail/GJXFH-G657A1,G-FRP strength member; 2.0m	

LED Tracking Patch cord

Fiber optic tracking patch cord with LED indicator, which is increase metal wire and LED indicator in the fiber optic cable, LED indicator will be light to precise positioning of the fiber optic cable A / B-side connection path through the external power supply. The tracking patch cord mainly used in large-capacity data room, data processing centers, network switching center and CATV system, greatly simplifies the complexity of the network maintenance personnel management the optical fiber links.

LED Tracking Patch cord

Features

- Low insertion loss, high return loss
- Simple to use, efficient and economical
- Used in CATV, FTTB or FTTH
- Connector meets YD / T standard requirements
- High-performance, high durability materials
- Meet the ROSH requirements

Technical Specification

- Electrical Parameters

Item		Value	Unit
Tracer Power-Input	voltage	5	V
	current	0.2~0.8	Ah
Tracer Power-Output	voltage	2.0~2.8	V
	current	2.0~3.0	mA
	Transmission Distance	300~500	M
Tracer Light-Output	voltage	2.0~2.6	V
	current	2.0~3.0	mA

※ Tracker power through the USB connection the computer charging time of 5 hours

Optical Parameters

| Item	Technical parameters
Applicable to fiber optic cable	Φ2.0 Simplex or Φ2.0X2 Duplex indoor Fiber optic cable with LED indicator
Insertion Loss(include Repeatability)	≤0.35dB
Interchangeability	ΔIL≤0.2dB
Fiber optic mode	Single-Mode or Multi-Mode
Return Loss	SM ≥50dB（UPC），≥60dB（APC）; MM ≥20dB
Radius of curvature	UPC:10 25mm(Φ2.5 Ceramic ferrule); 7~25mm(Φ1.25 Ceramic ferrule)
Apex offset	≤50um
Fiber Undercut and Protrusion	-100 ~+50nm
APC Angle	8±0.3˚
Operating Temperature	-25℃～+70℃
Tensile strength	≥50N
Storage Temperature	-40℃~+80℃
Fiber Type	G652/G657/OM3 or Customize
Mechanical durability(500 times)	ΔIL≤0.3dB ΔRL＜5dB

Product Information

| PN	Technical Parameter	Remark
200127060	LC/UPC-LC/UPC single-mode duplex fiber optic tracking patch cord/G652,Φ2.0,5m	
200127050	FC/UPC-FC/UPC single-mode duplex fiber optic tracking patch cord/G652,Φ2.0,5m	
200123620	SC/UPC-SC/UPC single-mode duplex fiber optic tracking patch cord/G652,Φ2.0,5m	

Armoured Fibre Optic Patch cord

Armored fiber optic, patch cord, with metallic flexible tube in stainless steel in order to prevent the cable from destroyed, can be covered with PVC of flame-resistance coating. In order to ensure the firmly connection, we also offer relative strong type connector. This unique design provides the safe use even at the field, especially fits FTTX.

Item	Singlemode UPC	Singlemode APC	Multimode
Insertion Loss	≤0.2dB(typical) 0.3dB(Max)	≤0.2dB(typical) 0.3dB(Max)	≤0.2dB(typical) 0.3dB(Max)
Return Loss	≥50dB	≥60dB	≥25dB
Durability	Min 500 mate times		
Operating Temperature	-40 C to +85 C		
Cord length	Customized		
Optical fibre	1-12 fiber		
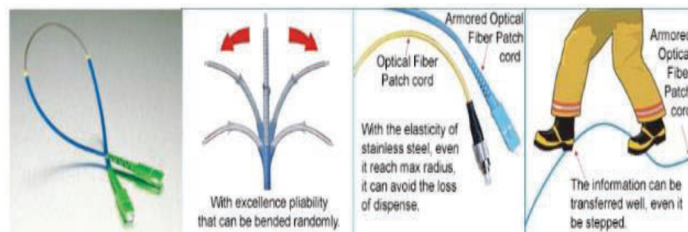
MPO Pigtail/Patch cord

O-Konec supplies MPO no matter it is single mode, multimode, bare fiber ribbon, ruggedized type, fan-out cable or customized. Multi-core patch cords allow installers to save time and cost in establishing physical connection as they are getting popular in dense interconnect applications. Our patch cords have very high quality and 100% tested.
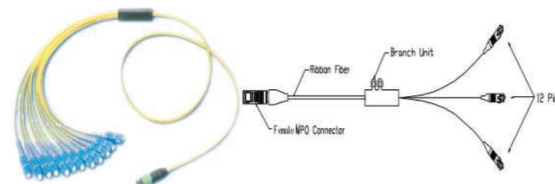
Simplex/Duplex Pigtail/Patch cord

We provide the broadest choices of Simplex/Duplex including high-grade FC, SC, ST, LC, MTRJ, and MU with Ultra-polished (UPC), Angle-Polished (APC) connectors or other polish requirement. Our daily output is 11500 pieces. We keep sufficient storage of the most common types of patch cords for instantly delivery. With this service, you no longer suffer from long term waiting.

For special requests on test reports or other specifications, please contact us


Simplex Pigtail /Patch cord

Performance

Item	Singlemode UPC	Singlemode APC	Multimode
Insertion Loss	≤0.2dB(typical) 0.3dB(Max)	≤0.2dB(typical) 0.3dB(Max)	≤0.2dB(typical) 0.3dB(Max)
Return Loss	≥50dB	≥60dB	≥25dB
Durability	Min 500 mate times		
Operating Temperature	-40 C to +85 C		
Cord length	Customized		
Optical fibre	4-12 fiber		

FTTx Pre-Connection cable Patch Cord

Compare to welding or mechanical connection technology, Pre-connected scheme is more suitable for high-density, high reliability wiring occasions; all modular, plug-and-play fiber optic products finish manufacturing and testing work at the factory according to pre-planning, to make it has excellent optical performance, and fast field wiring.
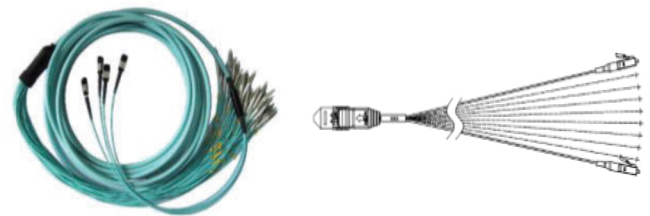
MPO Pre-connection Patch cord

Functional layout and Blocks Diagram

Technical Specifications

Item	Technical parameters	
Connector Type	UPC	APC
Operation Temperature	-25°C ~ +70°C	
Storage Temperature	-40°C ~ +85°C	
Insertion Loss	LC/FC/SC connector : ≤0.35dB（SM＆MM）	
	MPO Connectors : Single-mode standard ferrule: 0.35dB (typical value); ≤ 0.70dB (max) Single-mode low loss ferrule: 0.15dB (typical value); ≤ 0.35dB (max) Multi-mode standard ferrule: 0.30dB (typical value); ≤ 0.60dB (max) Multi-mode low loss ferrule: 0.10dB (typical value); ≤ 0.35dB (max)	
Return Loss	LC/FC/SC:≥50dB (SM); ≥ 20dB (MM)	LC/FC/SC: ≥60dB(SM)
	MPO: ≥ 35dB (SM); ≥ 20dB (MM)	MPO: ≥ 50dB(SM)
The connector end face 3D index requirements	Meet the IEC61755-3-1-2006 and IEC61754-7 standard Requirement	
Angular Offset	NA	8±0.5°
Cable Tensile Strength	12 core main cable:400N tension; 24 core and above:600N tension	
Fiber Type	SM(G652,G655,G657) or MM(50, 62.5, OM3) etc.	

Flexible Cable Assembly

Ultra Flexible Patchcords and Pigtails

- Fits FTTX
- Small radius storage
- Min. bending radius of 7.5mm can be achieved
- Easy to coil small radius just like power cord

Item	Singlemode UPC	Singlemode APC	Multimode
Insertion Loss	≤0.7dB(typical)	≤0.7dB(typical)	≤0.8dB(typical)
Return Loss	≥50dB	≥60dB	≥25dB
Durability	Min 500 mate times		
Operating Temperature	-40 C to +85 C		
Cord length	Customized		

Loopback Patch Cord

Loopback patch cord provides a media of return path for a signal testing purpose or network restoration. In the case of testing, the loopback signal is used for diagnosing a problem. Sending a loopback test to a network equipment, one at a time, is a technique for isolating a problem. Its performance is as good as that of a general patch cord.

Ordering Information

Part Numbers	Connector fiber	Fiber Type
GLP01001	SC/UPC	singlemode
GLP01002	SC/APC	singlemode
GLP01003	SC/UPC	multimode
GLP01004	LC/UPC	singlemode
GLP01005	LC/APC	singlemode
GLP01006	LC/UPC	multimode
GLP01007	MTRJ	singlemode
GLP01008	MTRJ	multimode

For drawings, technical data's or samples configuration other than stated above, please feel free to contact us.

Fibre Cable Bundle

Siechem fiber cable bundle is designed for data center and FTTH applications, it owns perfect fan-out design, guarantee the mechanical, environmental and optical performance. Usually it's can be used with Siechem system modules, it is easy to install, only spent time on connector plug in. Fibers of the bundle from 4 to 144 cores of the backbone cable, ends of the use of connectors can be MPO, LC, duplex LC, SC, duplex SC. Siechem OM3 fiber cable bundle is widely used in data center. The fiber of bundle also can be single module fiber, just as G652, G657, it can be customized. Siechem provide three kinds of cable trunk, Bundle Cable, Zipper Tubing and Expando.

Features

- Connecting ends comply with GR-326
- Fibers of bundle from 4 to 144 cores
- Distribution work can be completed in an optical distribution frame
- Low insertion loss
- Outstanding repeatability and predictability
- Terminated connectors with various types (FC, SC, ST, LC, MU, etc..) are available

Applications
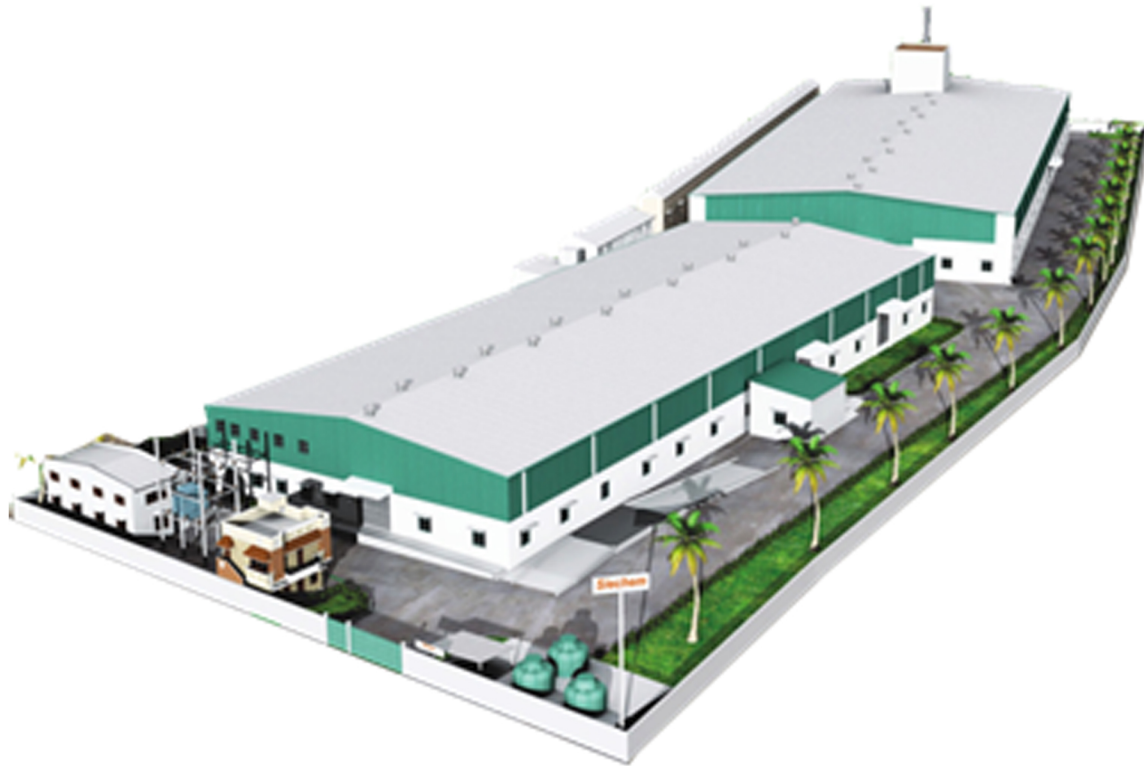
- Data Centre
- FTTx
- Broadband Network

Performance

Performance		OM3	Singlemode
Insertion Loss IL(dB)	Typical	≤0.20	≤0.20
	Max.	≤0.25	≤0.30
Return Loss (dB)		≥25	≥50
Durability(dB)		≤0.2/500 times	≤0.2/500 times
Tensile Force (N)	Short time	≥70	≥70
Operating Temperature(°C)		-40~+85	-40~+85

Ordering Information

Fiber type	Length	L1 End Connector	L1 End Connector	Bundle
OM3		MPO	MPO	Bundle Cable
OM4	L(L1:L2)	MTP	MTP	
G652	L:Total Length	SC/UPC	SC/UPC	Zipper Tubing
G655	L1:Fan out length	SC/APC	SC/APC	Expando
G657a	L2:Fan out Length	LC/UPC	LC/UPC	
G657b		LC/APC	LC/APC	

Siechem
Technologies Pvt. Ltd.,

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 COMPLIANT		IRS	CSIR	Ford	DGQA