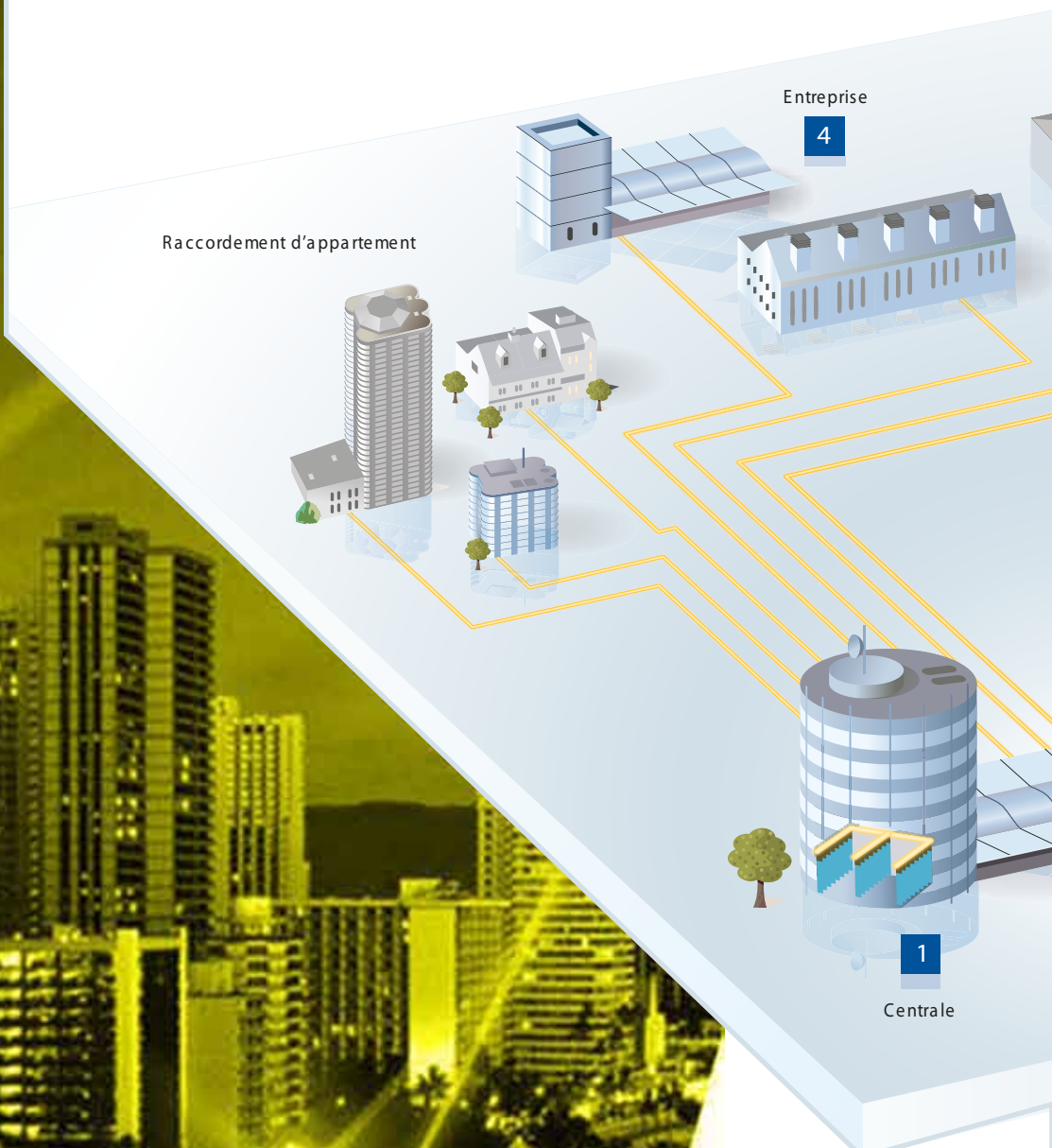


FTTH Solutions





Outdoor Fiber Distribution Hub (FDH)



FDH 96 Port



FDH 144 Port



FDH 288 Port



FDH 576 Port



FDH 600 Port

Features

- Design to house OLT cables, PLC splitters and distribution/drop cables for FTTH network
- Various design and capacity available up to 600 fiber
- High Density within a compact space
- Easy routing and connection
- Modular splitter provides for future expansion and high flexibility
- Space available for excess patch cables
- Front access design for easy maintenance
- Proper strain relief for all cables
- SMC type available with ultra violet resistance, high impact resistance and resistance to corrosion
- Flexible pole mounting concrete or SMC plinth mounting options
- Customization available with no extra cost

Item	Specification (SMC)
Electrical Strength	Polyester and Glass Fibre Composite
Body	Class V2 of the UL 94 norm
Self-Extinguishing	90%-
Thermal Properties	HDT 18 Mpa up to > 200°C
Izod Impact Strength	D256 at 0.9KJ/M

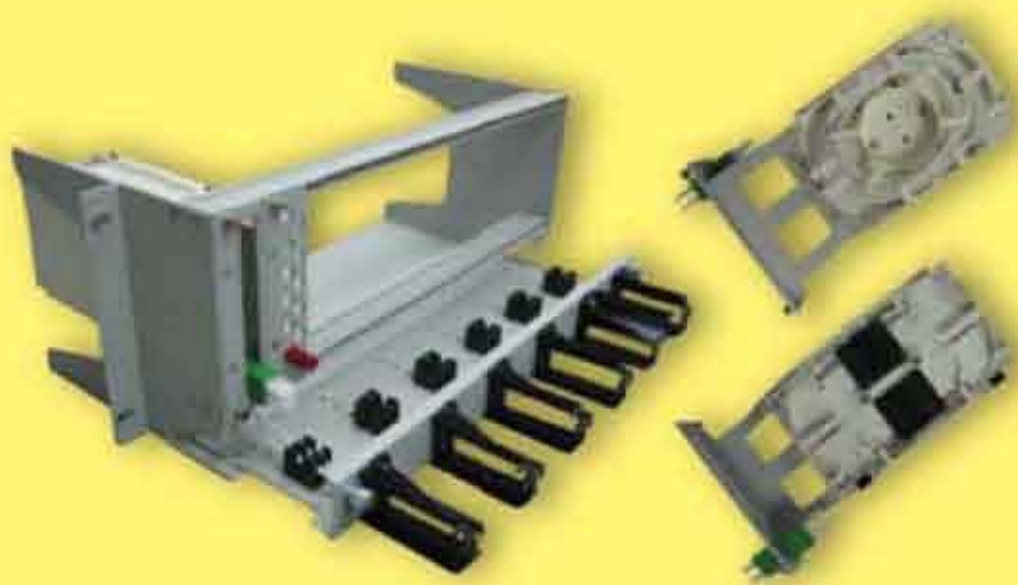
Part Number	Item	Dimension With Base	Dimension Without Base
LTOC-NGFM-FDH-96X	Fiber Cabinet 96 Core	-	690mm(H) x 280mm(D) x 520mm(W)
LTOC-NGFM-FDH-144X	Fiber Cabinet 144 Core	-	960mm(H) x 330mm(D) x 660mm(W)
LTOC-NGFM-FDH-288X	Fiber Cabinet 288 Core	1450mm(H) x 750mm(W) x 320mm(D)	960mm(H) x 330mm(D) x 660mm(W)
LTOC-NGFM-FDH-600X	Fiber Cabinet 600 Core	1440mm(H) x 750mm(W) x 600mm(D)	1010mm(H) x 600mm(D) x 750mm(W)
LTOC-NGFM-FDH-576X	Fiber Cabinet 576 Core	1446mm(H) x 1545mm(W) x 350mm(D)	1446mm(H) x 350mm(D) x 1170mm(W)

Indoor Fiber Distribution Hub (FDH)

Features

- High density optical fiber distribution hub to house termination and PLC splitters
- Various design and capacity available up to 1440 fiber
- Easy routing and connection
- Modular Splitter provides for future expansion and high flexibility
- Front access design for easy maintenance
- Proper strain relief for all incoming cables
- Complete fiber management for easy handling and storage
- Quick and easy installation procedure

FTDS Indoor FDH



Item	Specification
Dimension(mm)	2200mm(H) x 300mm(D) x 900mm(W)
Installation	19-inch rack (EIA pitch)
Accessibility	Front
Connector Types	SC, LC, E-2000, FC
Number of Termination Units	10
Maximum Fiber Capacity	1440 Cores

Part Number	Description
LTOC-FTDS-CAB-9030	FTDS Fiber Management Cabinet
LTOC-FTDS-ESR-4060	FTDS Fiber Management Cabinet c/w Cable Management Route
LTOC-FTDS-SPM-SR1	FTDS Subrack
LTOC-FTDS-SPM-XY	FTDS Splice & Patch Module

NGFM Indoor FDH

Item	Specification
Dimension(mm)	2200mm(H) x 300mm(D) x 900mm(W)
Installation	19-inch rack (EIA pitch)
Accessibility	Front
Connector Types	SC, LC, E-2000, FC
Number of Termination Units	15
Maximum Fiber Capacity	720 Cores

Part Number	Description
LTOC-NGFM-CAB	NGFM Fiber Cabinet
LTOC-NGFM-XXSP-XY	NGFM Splice & Patch Module
LTOC-NGFM-TRY-NGF-B12	NGFM Splice Tray
LTOC-TRY-NGF-S32	NGFM Splitter Tray



NGFM Splice & Patch Module



NGFM Splice Tray



NGFM Splitter Tray

Fiber Pedestal c/w Subscriber DP

Features

- Meet or exceed GR-771-CORE specifications
- Secure and cold weather, high-impact resistant
- Multiple lock, bracketry and color options to satisfy all hardware needs
- Craft-friendly cover slides easily into locking position
- All hardware and bracketry options are constructed of aluminum and stainless steel
- 360° access and rectangular shape provide increased workable area
- Perfect for FTTH network and CATV system application
- Design to house fiber splitter, adapters and fusion splices
- Perfect for FTTH drop cable fiber distribution point or splice box



Item	Specification
Dimension	701mm (H) X 332mm (W) X 292mm(D)
Colour	Light Green/Dark Green

Part Number	Description
LTOC-FTH-PDT-103	Fiber Pedestal c/w Subscriber DP

Outdoor Subscriber Distribution Box



Item	Specification
8 Port Splitter Box	180mm (W) x 230mm (H) x 50mm (D)
16 Port Splitter Box	260mm (W) x 325mm (H) x 93mm (D)
Colour	Light Gray
Degree of Protection	IP55 with rubber seal

Part Number	Description
LTOC-FTH-SDB-08	Outdoor Subscriber Distribution Box 8 Port
LTOC-FTH-SDB-16	Outdoor Subscriber Distribution Box 16 Port
LTOC-FTH-SDB-32	Outdoor Subscriber Distribution Box 32 Port

Features

- Optional lockable or latchable door design provides security and protection for used in outdoor application.
- Cable gland and strength member clamp provides strain relief to avoid accidental pull out on main cable.
- Flappable splice organizer trays provide easy access for maintenance.
- Suitable for pole mount or wall mount applications.
- Cable strength member clamp for all drop cables.
- Enhanced weather-proof design.

OFC - IS Optical In-Line Closure



Features

- Compact design for FTTH last mile access applications
- Hinged design, no loose part
- Good sealing performance
- High impact resistant and UV resistant thermoplastic
- Easy to be installed can be re-opened and reusable.

Item	Specification
Dimension	300mm x 105mm x 80mm
Ports	4 ports, each port for diameter 4mm-10mm
Capacity	12 cores

Part Number	Description
LTOC-OFC-IS-12	OFC - IS Optical In-Line Closure

OFC FAC Optical Dome Closure

Features

- Design for fiber access and drop cables for FTTH network
- One piece clamp's design, no re-entry tape or sleeve required during e-access. Save cost
- Accomodate extensive range of cable size
- Multiple drop cable ports for ready access
- Mountable in manhole, on wall and pole
- No special training and tooling required
- Flippable tray for easy fiber access
- Able to accommodate PLC splitters and up to 24 SC adapters

Item	Specification		
Dimension	450mm (L) x 230mm (O.D)		
Distribution Port	4 (Round)		
Max Cable Diameter	1x17.5mm	4x8.0mm	6x(3.1mmx2)
Main Cable Port	1 (Oval)		
Max Cable Diameter	2 x 24.0mm	16 x 8.0mm	

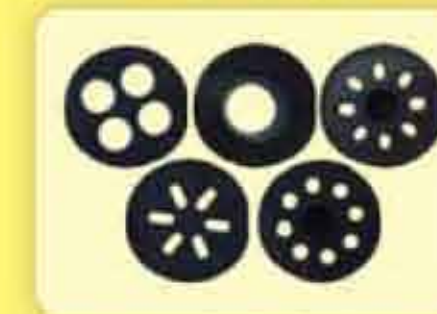
Part Number	Description
LTOC-OFC-FAC-XX	OFC FAC Optical Dome Closure



Closure Base



Main Cable Port Sealing Plug



Distribution Port Sealing Plug



OFC - IAC Optical Closure



Features

- Compact size possible to use in hand hole.
- Accomodate extensive range of cable size
- Multiple drop cable ports for ready access
- Mountable in manhole, on wall and pole
- Unique sealing method
- No special training and tooling required
- Flippable tray for easy fiber access
- Accomodate 12 SC / 24 LC adapters

Item	Specification
Dimension	300 (H) x 220 (W) x 100 (D) mm
Weight	2.4 ~ 2.7kg
Distribution Port	12 Ports
Max Cable Diameter	5mm
Main Cable Port	2 Ports
Max Cable Diameter	8mm - 15mm

Part Number	Description
LTOC-OFC-IAC-XX	OFC - IAC Optical Closure

PLCP 19" Rack Mount Splitter Panel



Features

- Compact 19" rack mount 1U slim design
- Accommodate various PLC splitter design, up to 2x32
- Accommodate various adapter type : SC, LC, E-2000, FC

Item	Specification
Dimension	436mm (W) X 44mm (H) X 200mm (D)
Part Number	Description
LTOC-PLCP-XX-YY	PLCP 19" Rack Mount Splitter Panel

Features

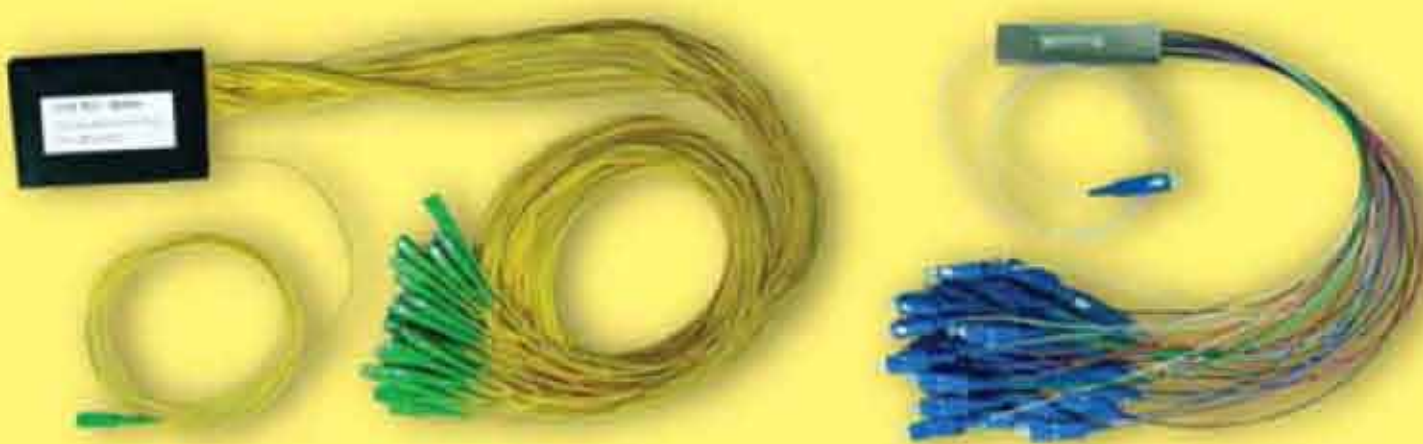
- Double compartment designed
- Double lockable and latchable door design
- Accommodate various types of connector
- Accommodate up to 1x32 splitters,
- Blank snap on available for used port
- Flappable splice organizer trays provide easy access
- Cable gland and strength member clamp provides strain relief
- Individual strength relief for drop cable via rubber plug.

Item	Specification
Dimension	360mm (W) X 270mm (H) X 75mm (D)
Material	Mild steel with epoxy coating
Part Number	Description
LTOC-WFPN-XX-YY:YY	WFPN Wall Mount Splitter Distribution Box

WFPN Wall Mount Splitter Box



PLC Splitter



Features

- Low insertion loss
- Low PDL
- Compact Design
- Wide Operating Wavelength
- Wide Operating Temperature
- High Reliability and Stability
- Telcordia GR-1221/1209 Compliance
- Fused splitters are available

Item	1x4	1x8	1x16	1x32	1x64	2x8	2x16	2x32	2x64	
Operating Wavelength (nm)	1260 - 1650									
Insertion Loss (dB) Max(S/P)	7.4/7.2	10.7/10.5	13.7/13.5	16.9/16.5	20.50	10.7/10.5	13.7/13.5	16.9/16.5	21.5	
Loss Uniformity (dB) Max	0.6	0.8	1.2	1.7	2.5	0.8	1.2	1.7	2.5	
Return Loss (dB) Max(S/P)	50/55	50/55	50/55	50/55	50	50/55	50/55	50/55	50	
PDL (dB) Max	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.4	
Directivity (dB) Min	55	55	55	55	55	55	55	55	55	
Pigtail Length (m)	1.2 (±0.1) or customer specified									
Fiber Type	SMF-28e or customer specified									
Wavelength Dependent Loss (dB)	1	1	1	1	1	1	1	1	1	
Temperature Stability (-40~85°C) (dB)	0.6	0.6	0.8	1	1	0.6	0.8	1	1	
Operating Temperature (°C)	-40 ~ 85									
Storage Temperature (°C)	-40 ~ 85									

Field Installable Connector - FIC3



Features

- Fiber Push-Thru design
- Field installable, cost effective, and user friendly
- No electricity required
- Less than 1 min, field assembly time
- Reliable and superior optical performance
- Cable Tensile test complied with Telecordia GR-326-core
- No polish required
- Re-openable/reusable - no wastage

Item	Specification
Fiber type	Singlemode and Multimode
Insertion Loss	≤ 0.5 dB
Reflectance	≥ 45 dB
Polishing type	UPC and APC
Operational Temperature	-45 °C ~ 70 °C

Part Number	Description
LTOC-FIC3-SMSC-DC	Field Installable Connector FIC3

Field Installable Connector - FIC4



Features

- Build-in pre-polished fiber design
- Field installable, cost effective, and user friendly
- No electricity required
- No tool required
- Less than 15 second, field assembly time
- Cable Tensile test complied with Telecordia GR-326-core
- No polish required
- 8 degree pre-polished angle available (for APC type)

Item	PC	APC
Fiber type	Singlemode	Singlemode
Polishing type	≤ 0.4 dB	≤ 0.4 dB
Insertion Loss	≥ 50dB	≥ 60 dB
Reflectance	PC	APC
Operation Temperature	-45 °C ~ 70 °C	-45 °C ~ 70 °C
Tensile Strenght	>100N	>100N

Part Number	Description
LTOC-FIC4-SMSC-DC	Field Installable Connector FIC4 SC/PC
LTOC-FIC4-SMSA-DC	Field Installable Connector FIC4 SC/APC

Mechanical Splice



Mechanical splice for 0.25/0.9mm fiber

Mechanical splice for FTTH Drop Cable

Features

- Field installable, Cost effective, User friendly
- No electricity required
- Less than 1 min, field assembly time
- Reliable and superior optical performance
- Cable Tensile test complied with Telecordia GR-326-core
- No tool required

Part Number	Description
LTOC-FTH-MS-01	Mechanical Splice for 0.25/0.9mm Fiber
LTOC-FTH-MS-02	Mechanical Splice for FTTH Drop Cable

FIC Termination Kit

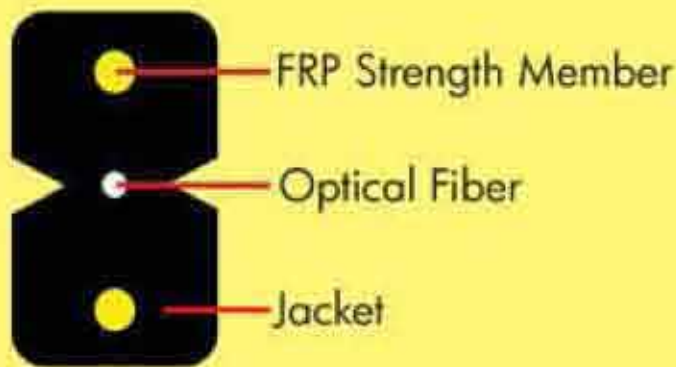


FTTH Drop Cable

Features

- For FTTH customer premise access applications
- Maximum fiber count: 12 fibers
- Standard single mode fibers or bend insensitive fibers
- Easy connect with field installable connector without splicing, fast and convenient
- Easy stripping and installation
- Excellent tensile and crush performance, the span distance for self-support type can be up to 50 meters
- Non-metallic strength member with K-FRP Kevlar fiber reinforced plastic
- Small diameter and lightweight
- Flame retardant LSZH jacket meets relevant fire protection requirements in indoor environment
- Suitable for cable installation in conduit or indoor bare installation
- Colored sheath is white, black, ivory or any customized colour
- High carbon steel messenger wire enables the self-support type has excellent tensile strength (for aerial drop cable)

Indoor Drop Cable

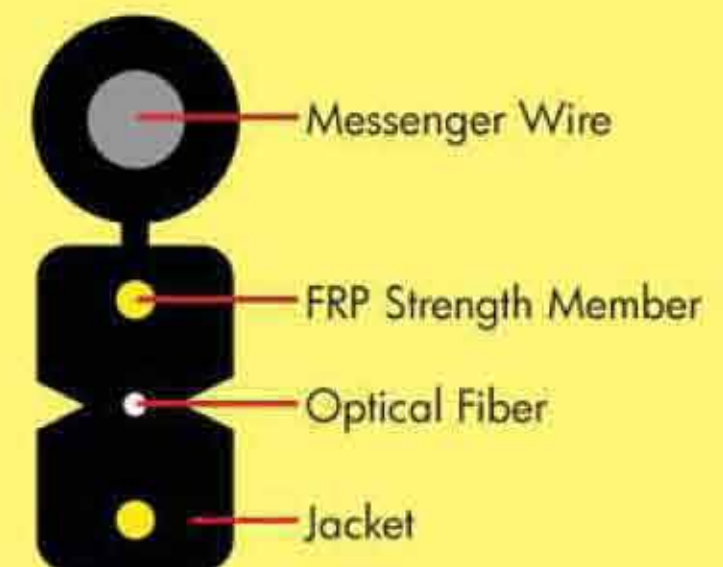


Item	Specification
Temperature Range	-20°C ~+ 60°C
Environmental Standards	RoHS compliant
Fire Protection	Meet the requirements of IEC 60332

Type	Fiber Count	Dimension (mm)	Tensile Strength (N)		Crush (N/100mm)		Min. Bending Radius (mm)		Cable Weight (kg/km)
			Short Term	Long Term	Short Term	Long Term	Dynamic	Static	
LTOC-CB-SM13-01	1	3.1×2.0	100	50	2000	700	30	15	9.6
LTOC-CB-SM13-02	2	3.1×2.0	100	50	2000	700	30	15	9.8
LTOC-CB-SM13-04	4	3.1×2.0	100	50	2000	700	30	15	10.0

Outdoor Aerial Drop Cable

Item	Specification
Temperature Range	-20°C ~+ 60°C
Environmental Standards	RoHS compliant
Fire Protection	Meet the requirements of IEC 60332



Type	Fiber Count	Dimension (mm)	Tensile Strength (N)		Crush (N/100mm)		Min. Bending Radius (mm)		Cable Weight (kg/km)
			Short Term	Long Term	Short Term	Long Term	Dynamic	Static	
LTOC-CB-SM14-01	1	5.3×2.0	700	350	2000	700	240	120	21.5
LTOC-CB-SM14-02	2	5.3×2.0	700	350	2000	700	240	120	21.7
LTOC-CB-SM14-04	4	5.3×2.0	700	350	2000	700	240	120	22

Bend Insensitive Patchcord



Features

- Designed for FTTH application.
- Minimum bending radius 15mm.
- Using G 657A fiber.
- Low loss.
- Various type connector available.

Item	Condition	Min	Value Type	Max
Insertion Loss (dB)			0.15	0.2
Return Loss (dB)	Singlemode 0°	55		
	Singlemode 8°	65		
Bending Radius	G657A Fiber			15mm
	G657B Fiber			7.5mm
Durability (dB)	1,000 matings			0.20
Operating Temperature	-40°C~70°C			0.20

PTB Premise Termination Box

Features

- Splice and terminate up to 4 fiber
- Rear and bottom cable access
- Comply to 30mm minimum bend radius requirement
- Flippable tray to allow access to pigtail and drop cable entry
- Compact design – suitable for FTTH or FTTO
- Additional protection covers available to provide protection to patch cables.
- Made of fire resistant UL94-V0 rated materia
- Suitable for all fiber optic adapters (SC, LC, FC etc.)

PTB1

Item	Specification
Dimension	(H) 80mm x (w) 120mm x (d) 25mm
Material	Fire resistant UL94-V0 rated Polystyrene
Operating temperature	-20°C to + 50°C (5 to 95% RH)

Part Number	Description
LTOC-FTH-PTB1-XX	PTB1 Premise Termination Box



PTB1

PTB2

Item	Specification
Dimension	(H) 150mm x (W) 110mm x (D) 30mm
Material	Fire resistant UL94-V0 rated Polystyrene
Operating temperature	-20°C to + 50°C (5 to 95% RH)

Part Number	Description
LTOC-FTH-PTB2-XX	PTB2 Premise Termination Box



PTB2

Fiber Face Plate



Features

- Terminate up to 2 fiber
- Cater for different fiber adapter : SC, FC, LC, E-2000 & etc
- Various design to cater for fusion splice or field terminate connector
- Design with dust shutter to prevent dust from contaminating the fiber is available
- Comply to 50mm minimum bend radius requirement
- Perfect for any FTTH customer premise installation

Part Number	Description
LTOC-FTH-FP1-XX	Fiber Face Plate Type 1
LTOC-FTH-FP2-XX	Fiber Face Plate Type 2
LTOC-FTH-FP3-XX	Fiber Face Plate Type 3

SC Adapter With Automatic Dust Shutter

Item	Specification
Insertion Loss	< 0.2 dB
Exchangeability	< 0.2 dB
Repeatability	< 0.2 dB
Operational Temperature	- 40°C ~ + 70°C
Storage Temperature	- 40°C ~ + 70°C

Part Number	Description
LTOC-FTH-ADP-SCS	SC Adapter With Automatic Dust Shutter
LTOC-FTH-ADP-SAS	SC/APC Adapter With Automatic Dust Shutter



Features

- Meets TIA/EIA 604-3, JIS C5973, IEC Specification
- Build in automatic spring shutter to prevent dust
- Protect the eyes from accidental expose to laser



Tél : +212 (0) 522 283 754 / 755

Fax : +212 (0) 522 283 756

Email : sales@rik-com.com

www : rik-com.com