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FTTH
fiber to the home



Litech provides broadband communications network infrastructure products and related solutions worldwide. Litech products enable the delivery of high-speed Internet, data, video, and voice communications over enterprise, broadcast, wired and wireless networks.

Incorporated and with headquarter in Malaysia, Litech is offering comprehensive range of products including FTTH Solutions, Coaxial and RF products, Baluns, Copper Cabling Solutions, DSX, Power Solutions, Rack and Data Center Solutions. With our in-house design, R&D expertise and manufacturing facilities, Litech is capable of offering customized solutions and has won numerous awards by world leading equipment and turnkey solution providers.

Our success is driven by our commitment to offer the best solutions to our clients, fulfilling their requirements and exceeding their expectations at all time. Litech is determined to provide the finest quality yet cost effective solutions to our customers by continuous development and enhancement of the solutions.





Outdoor Subscriber Distribution Box



Indoor FDH



Wall Mount Splitter Box



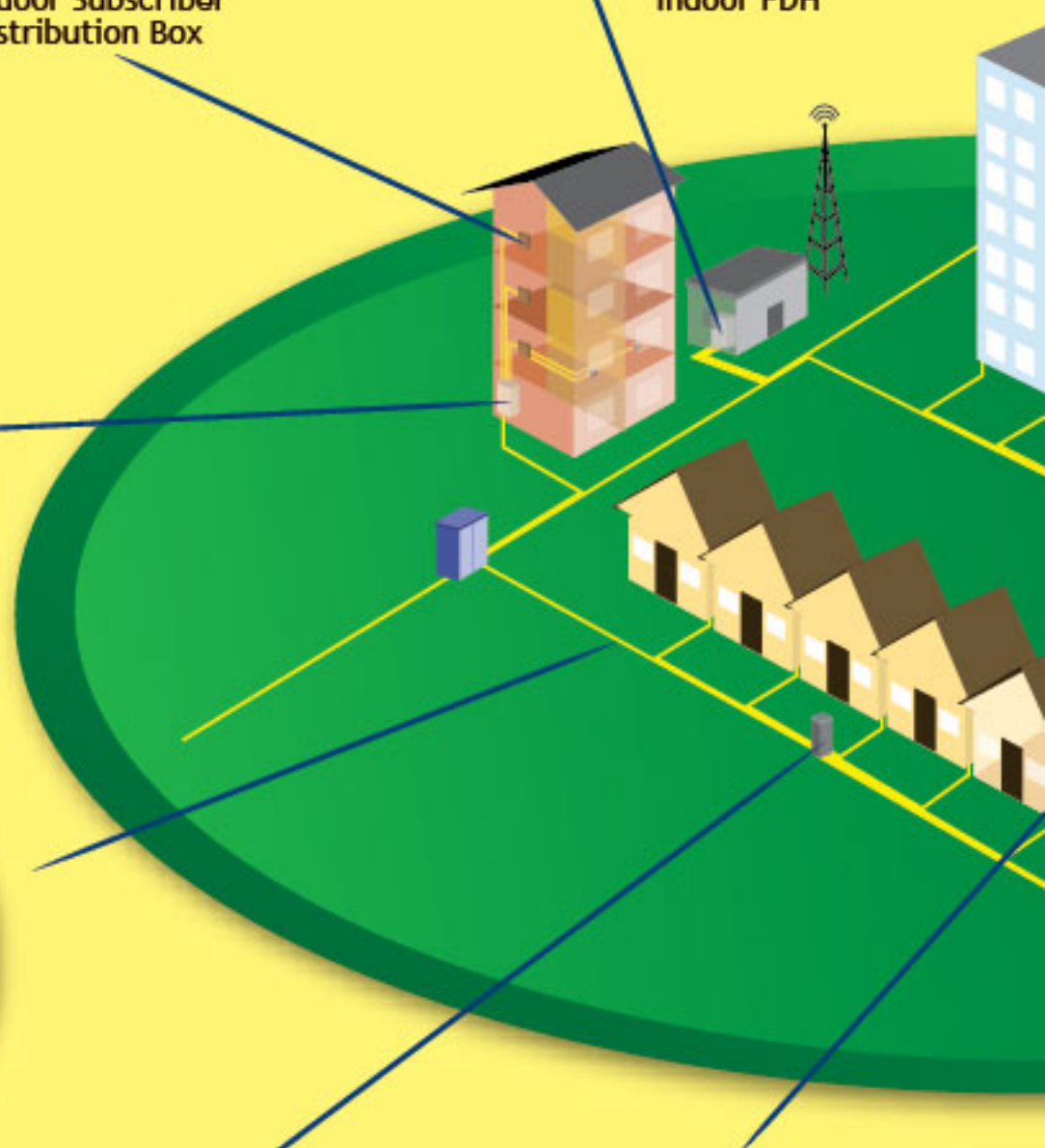
FTTH Drop Cable



Fiber Pedestal

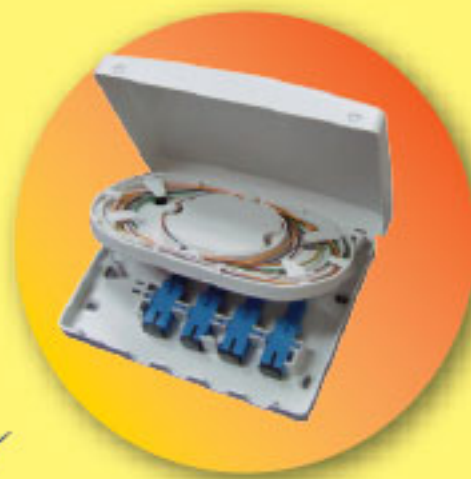


Fiber Face Plate





Outdoor FDH



Premises Termination Box



Optical Access Closure



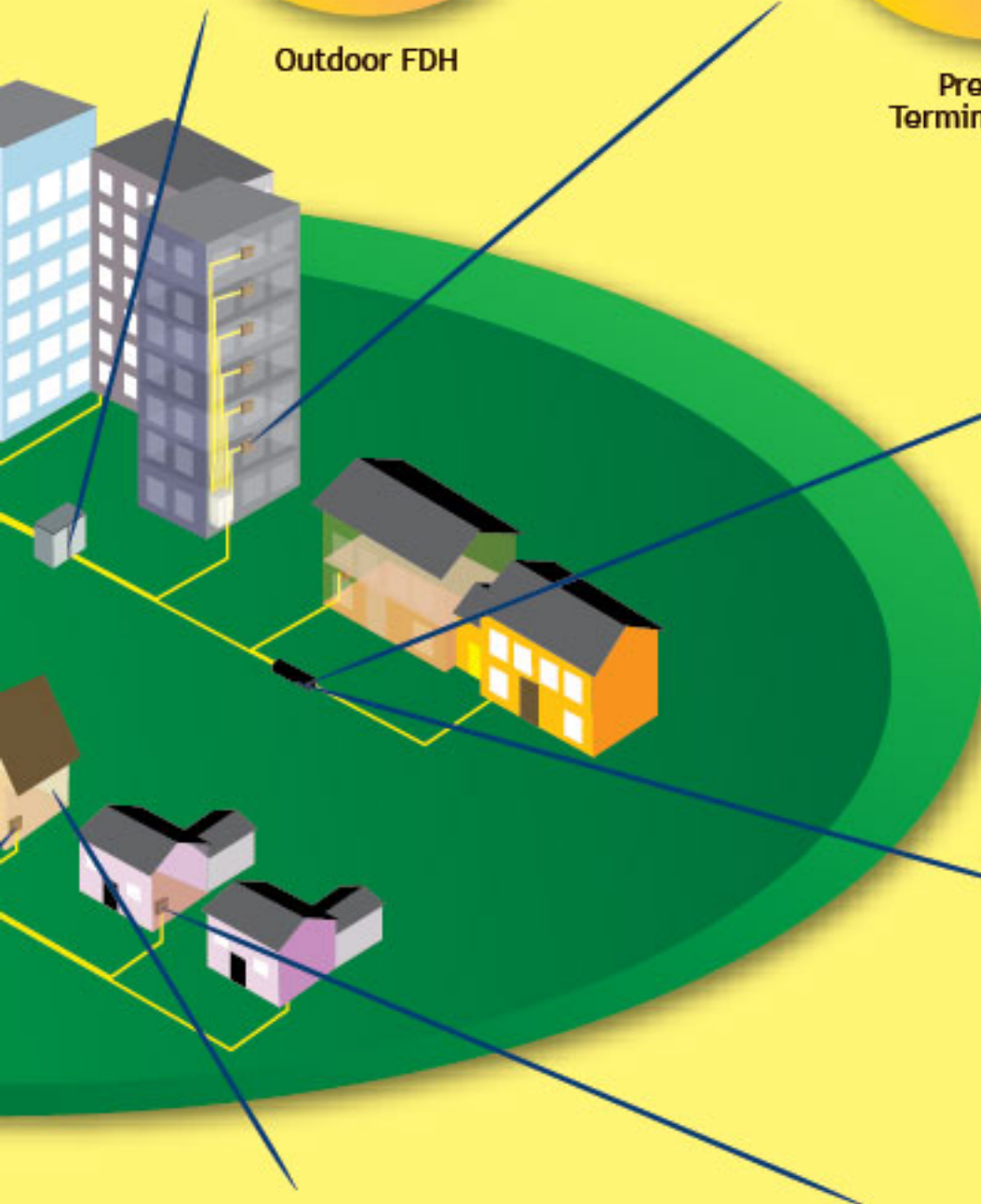
OFC-FAC-B2



Field Installable Connector



Outdoor Subscriber Box 4 Port



Outdoor Fiber Distribution Hub (FDH)



FDH 96 Port



Unconnectorized
FDH 144 Port



FDH 288 Port



FDH 600 Port



SOFM FDH 920 Port

Features

- Designed to house OLT cables, PLC splitters and distribution/drop cables for FTTH network
- Various design and capacity available up to 920 fibers
- High density within a compact space
- Easy routing and connection
- Modular splitter provides 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	Class V2 of the UL 94 norm
Body	Polyester and Glass Fibre Composite
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 520mm(W) x 280mm(D)
LTOC-NGFM-FDH-144X	Fiber Cabinet 144 Core	960mm(H) x 520mm(W) x 288mm(D)	700mm(H) x 520mm(W) x 288mm(D)
LTOC-NGFM-FDH-288X	Fiber Cabinet 288 Core	1450mm(H) x 750mm(W) x 360mm(D)	1078mm(H) x 750mm(W) x 360mm(D)
LTOC-NGFM-FDH-600X	Fiber Cabinet 600 Core	1440mm(H) x 1545mm(W) x 360mm(D)	-
LTOC-SOFM-FDH-920X	Fiber Cabinet 920 Core	1450mm(H) x 1550mm(W) x 360mm(D)	-

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 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



FTDH

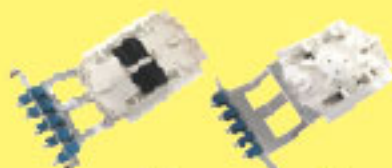
FTDS / FTDH Indoor FDH



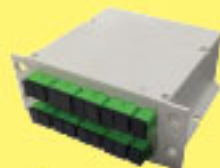
FTDS Splice / Patch Module



Splitter Module 1 x 8



FTDH Splice / Patch Module



Splitter Module 1 x 16



FTDS Subrack



FTDH Subrack

Item	Specification
Installation	19-inch rack (EIA pitch)
Accessibility	Front
Connector Types	SC, LC, E-2000, FC
Subrack	10
Maximum Fiber Capacity	1440 Cores

Part Number	Description
LTOC-FTDS-CAB-9030	FTDS Fiber Management Cabinet
LTOC-FTDS-SPM-SR1	FTDS Subrack
LTOC-FTDS-SPM-XY	FTDS Splice & Patch Module
LTOC-FTDH-CAB-9030	FTDH Fiber Management Cabinet
LTOC-FTDH-SPM-SR2	FTDH Subrack
LTOC-FTDH-SPM-XY	FTDH Splice & Patch Module

NGFM Indoor FDH

Item	Specification
Dimension(mm)	2200mm(H) x 900mm(W) x 300mm(D)
Installation	19-inch rack (EIA pitch)
Accessibility	Front
Connector Types	SC, LC, E-2000, FC
Subrack	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-B12	NGFM Splice Tray
LTOC-NGFM-TRY-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 in 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 by aluminum and stainless steel
- 360° access and rectangular shape provide increased workable area
- Perfect for FTTH network and CATV system application
- Designed 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

OFC-IC Mini Optical Inline Closure



Interconnect

Splice

Item	Specification
Dimension	72mm(H) x 179mm(W) x 26mm(D)
Ports	2 ports, each port for max diameter 6mm
Capacity	2 core
Material	MPP

Item	Specification
LTOC-OFC-IC-S02	OFC-IC Mini Optical Inline Closure Splice - 2 core
LTOC-OFC-IC-P01	OFC-IC Mini Optical Inline Closure Interconnect - 1 core
LTOC-OFC-IC-P01	OFC-IC Mini Optical Inline Closure Interconnect - 2 core

Outdoor Subscriber Distribution Box



SDB 4 Port

SDB 8 Port

SDB 12 Port

SDB 16 Port

SDB2 4 Port

SDB2 8 Port

SDB2 16 Port

SDB2 24 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.

Item	Specification
4 Port Splitter Box	140mm(H) x 210mm(W) x 40mm(D)
8 Port Splitter Box	230mm(H) x 180mm(W) x 50mm(D)
12 Port Splitter Box	250mm(H) x 215mm(W) x 75mm(D)
16 Port Splitter Box	325mm(H) x 260mm(W) x 93mm(D)
24 Port Splitter Box	350mm(H) x 275mm(W) x 100mm(D)
Colour	Light Grey
Degree of Protection	IP55 with rubber seal
Material	Plastic (UL94-V1) or others

Part Number	Description
LTOC-FTH-SDB-04SP	Outdoor Subscriber Distribution Box SDB (Splice Type) 4 Core
LTOC-FTH-SDB-04SU	Outdoor Subscriber Distribution Box SDB (SC/UPC Type) 4 Core
LTOC-FTH-SDB2-04SP	Outdoor Subscriber Distribution Box SDB2 (Splice Type) 4 Core
LTOC-FTH-SDB2-04SU	Outdoor Subscriber Distribution Box SDB2 (SC/UPC Type) 4 Core
LTOC-FTH-SDB-08	Outdoor Subscriber Distribution Box SDB 8 Port
LTOC-FTH-SDB2-08	Outdoor Subscriber Distribution Box SDB2 8 Port
LTOC-FTH-SDB-12	Outdoor Subscriber Distribution Box SDB 12 Port
LTOC-FTH-SDB-16	Outdoor Subscriber Distribution Box SDB 16 Port
LTOC-FTH-SDB2-16	Outdoor Subscriber Distribution Box SDB2 16 Port
LTOC-FTH-SDB-24	Outdoor Subscriber Distribution Box SDB 24 Port

OFC-IS Mini Optical In-Line Closure

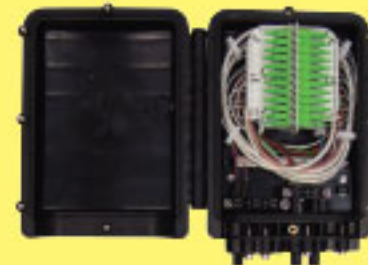


Item	Specification
Dimension	300mm(L) x 105mm(W) x 80mm(D)
Ports	4 ports, each port for diameter 4mm-10mm
Capacity	12 cores

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

OFC-IAC Optical Splitter Closure

Item	Specification
Dimension	300mm(H) x 220mm(W) x 100mm(D)
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 Splitter Closure

OFC-FAC Optical Dome Splitter Closure



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 Splitter Closure
LTOC-OFC-FAC-A-XX	OFC-FAC-A Optical Dome Splitter Closure c/w Adapter Bracket

OFC-FAC-B Optical Dome Splitter Closure

Item	OFC-FAC-B1 / B1-A	OFC-FAC-B2 / B2-A
Dimension	480mm(L) x 260mm(O.D)	585mm(L) x 260mm(O.D)
Capacity	Up to 288 fibers	Up to 576 fibers
Cable Diameter	φ3 - φ24mm	
Cable Port	2 small round ports, 2 big round ports and 1 big oval port for loop cable	
Temperature Range	-40° C ~ +65° C	
Material	High Strength Engineering Plastic	



Part Number	Description
LTOC-OFC-FAC-B1	OFC-FAC-B1 Optical Dome Closure
LTOC-OFC-FAC-B2	OFC-FAC-B2 Optical Dome Closure
LTOC-OFC-FAC-B1-A	OFC-FAC-B1-A Optical Dome Closure c/w Adapter Bracket
LTOC-OFC-FAC-B2-A	OFC-FAC-B2-A Optical Dome Closure c/w Adapter Bracket



OFC-IB2 Optical In-Line Splitter Closure



Item	Specification
Material	Reinforced PP
Metal Part	Stainless Steel or Aluminium Alloy
Cable Diameter (Middle)	16mm - 25mm
Cable Diameter (Side)	10mm - 20mm
Closure Dimension	648mm(L) x 254mm(W) x 158mm(D)

Part Number	Description
LTOC-OFC-IB2-XX	OFC-IB2 Optical In-Line Splitter Closure

WFPN Wall Mount Splitter Box



Features

- Double compartment design
- Double lockable and latchable door design
- Accomodate various types of connector
- Accomodate up to 1x32 splitters
- Individual strenght relief for drop cable via rubber plug
- Fully sealed splitter module design for greater protection

Item	Specification
Dimension	270mm(H) x 360mm(W) x 75mm(D)
Material	Mild steel with epoxy coating

Part Number	Description
LTOC-WFPN-XX-YYZZ	WFPN Wall Mount Splitter Distribution Box

PLC Splitter



Features

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

PLCP 19" Rack Mount Splitter Panel



Features

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

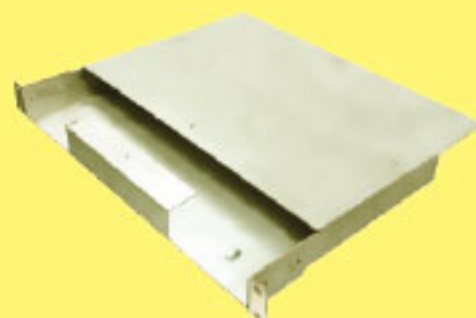
Item	Specification
Dimension	44mm(H) x 436mm(W) x 200mm(D)

Part Number	Description
LTOC-PLCP-XX-YY	PLCP 19" Rack Mount Splitter Panel

Slack Cable Storage Box



Wall Mounted



Rack Mounted

Part Number	Description
LTOC-CBSB-WM	Wall Mount Slack Cable Storage Box
LTOC-CBSB-RM1U	Rack Mount Slack Cable Storage Box 1U

Item		1x4	1x8	1x16	1x32	1x64	2x8	2x16	2x32	2x64	
Operating Wavelength	(nm)	1260 - 1650									
Insertion Loss	(dB) Max(S/P)	7.4/72	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 - FIC3A



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
- No special tools 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-FIC3A-SMSC-DC	Field Installable Connector FIC3A

Field Installable Connector - FIC4



Features

- Built-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
Insertion Loss	≤ 0.4 dB	≤ 0.4 dB
Reflectance	≥ 50dB	≥ 60 dB
Operation Temperature	-45 °C ~ 70 °C	-45 °C ~ 70 °C
Tensile Strength	>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

Field Installable Connector (FIC) - 0.9mm & 3.0mm 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
- Perfect for maintenance and fast restoration application

Part Number	Description
LTOC-FIC3A-SMSC-02	FIC3A - SC Connector for 0.9mm Cable
LTOC-FIC3A-SMFC-02	FIC3A - FC Connector for 0.9mm Cable
LTOC-FIC3A-SMSC-03	FIC3A - SC Connector for 3.0mm Cable
LTOC-FIC3A-SMFC-03	FIC3A - FC Connector for 3.0mm Cable
LTOC-FIC4-SMSC-02	FIC4 - SC Connector for 0.9mm Cable
LTOC-FIC4-SMFC-02	FIC4 - FC Connector for 0.9mm Cable
LTOC-FIC4-SMSC-03	FIC4 - SC Connector for 3.0mm Cable
LTOC-FIC4-SMFC-03	FIC4 - FC Connector for 3.0mm Cable

FIC Termination Kit



Part Number	Description
LTOC-CTL-FIC-KIT	FIC Termination Tool Kit

Mechanical Splice



Mechanical splice for 0.25/0.9mm fiber



Mechanical splice for FTTH Drop Cable

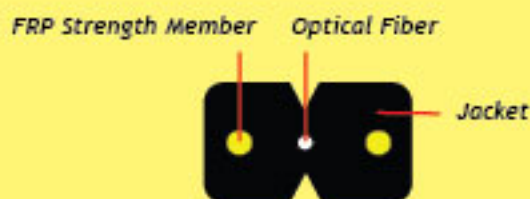
Part Number	Description
LTOC-FTH-MS-01	Mechanical Splice for 0.25/0.9mm Fiber
LTOC-FTH-MS-02	Mechanical Splice for FTTH Drop Cable

FTTH Drop Cable

Features

- For FTTH customer premises access applications
- 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

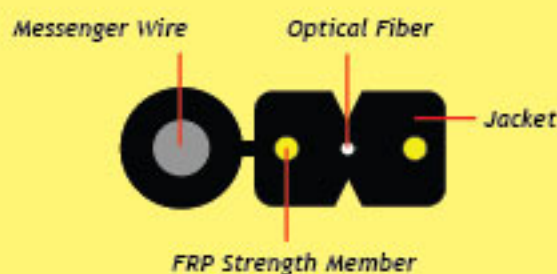


Item	Specification
Temperature Range	-20°C ~+ 60°C
Environmental Standards	RoHS compliant
Fire Protection	Meet the requirements of IEC 60332

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

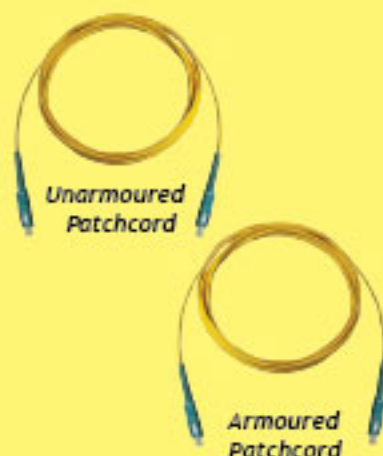
Outdoor Aerial Drop Cable

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 Premises Termination Box

Features

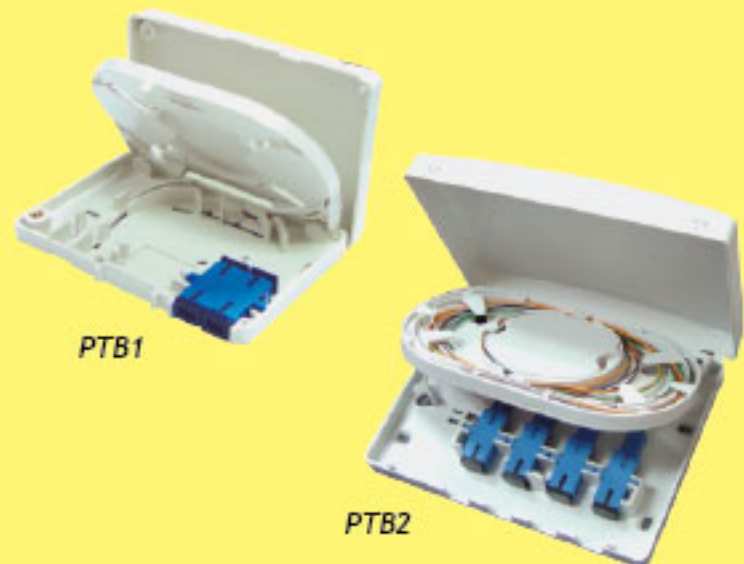
- Splice and terminate up to 4 fiber
- Rear and bottom cable access
- Complied to 30mm minimum bend radius requirement
- Flippable tray to allow access to pigtail and drop cable entry
- Compact design - suitable for FTTH or FTTO
- Additional protection covers available to provide protection for patch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

PTB1

Item	Specification
Dimension	80mm(H) x 120mm(W) x 25mm(D)
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 Premises Termination Box

PTB2

Item	Specification
Dimension	150mm(H) x 110mm(W) x 30mm(D)
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 Premises Termination Box



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
- Designed with dust shutter to prevent dust from contaminating the fiber is available
- Complied to 50mm minimum bend radius requirement
- Perfect for any FTTH customer premises installation

Part Number	Description
LTOC-FTH-FP1-XX	Fiber Face Plate FP1
LTOC-FTH-FP2-XX	Fiber Face Plate FP2
LTOC-FTH-FP3-XX	Fiber Face Plate FP3

SC Adapter With Automatic 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 Shutter
LTOC-FTH-ADP-SAS	SC/APC Adapter With Automatic Shutter



Features

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