

Fiber Optic Catalog

FOTUX *InfiniFiber*[®] Systems

FOTUX InfiniFiber® Systems

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Connecting Every Last Mile

Driven by a strong commitment to full-scale vertical integration and engineering excellence, FOTUX is a premier provider of high-performance, cost-effective optical fiber cabling architecture. The InfiniFiber® Systems represent the pinnacle of FOTUX's specialization in high-density and critical-link environments—spanning next-generation data centers, enterprise backbones, Fiber-to-the-Desk (FTTD), and complex FTTX “last mile” deployments. Fully compliant with or exceeding rigorous TIA/EIA, ISO/IEC, and IEEE international standards, each end-to-end InfiniFiber® solution is purposefully engineered to eliminate deployment complexity, maximize space utilization, and accelerate field installation.

FOTUX fiber systems are:

- **Reliable**

Backed by a 3-year factory warranty and a 15-25 year operational lifespan under standard conditions

Robust in-house manufacturing and strict global material sourcing ensure quality.

ISO 9001 compliance ensures consistent quality and performance through meticulous manufacturing and testing protocols.

- **Scalable**

Supports high-speed standards to future-proof infrastructure against emerging data demands.

Comprehensive one-stop solutions simplify procurement and complex network upgrades.

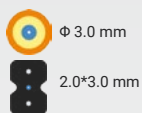
Continuous R&D and testing develop solutions for evolving scalability requirements.

- **Sustainable**

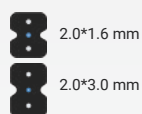
Strict adherence to RoHS and REACH standards minimizes hazardous substances.

Optimized designs meet international standards while avoiding costly over-engineering

Long-term durability extends product lifecycles and reduces environmental construction waste.



FOFCSA-09, 09 Type Fast Field Connector, SC/APC



FOFCSA-10, 10 Type Fast Field Connector, SC/APC

InfiniFiber Field Termination

Mechanical Fast Field Connectors

FOTUX Mechanical Fast Field Connector ensures exceptionally low insertion loss and outstanding return loss performance, even under rigorous operating conditions.

The FOTUX 09 and 10 type fast field fiber connector redefines field installation by eliminating unnecessary steps.

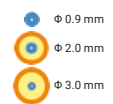
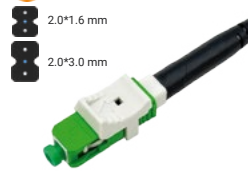
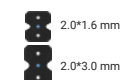
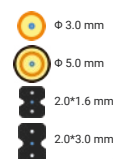
Features and Benefits

- Optimized clamping mechanism allows for one step operation, enabling seamless termination in just 40 seconds.
- Delivers a typical IL<0.3dB, matching the high-performance benchmarks of factory pre-terminated patch cords.
- Engineered with anti-aging materials, ensuring stable performance across a temperature range of -40°C to +75°C.
- Supports at least 5 re-termination cycles, significantly reducing error costs during on-site installation.

Connector Performance

Connector Type	Maximum Insertion Loss	Typical Insertion Loss	Minimum Return Loss
SC APC	0.5 dB	0.3 dB	55 dB
SC UPC	0.5 dB	0.3 dB	50 dB
LC APC	0.5 dB	0.3 dB	55 dB
LC UPC	0.5 dB	0.3 dB	50 dB

Other Available Specifications



InfiniFiber Field Termination

Splice-On Connectors

FOTUX Splice-On Connector series represents the highest standard of quality for field-terminated connections. The seamless end-face fusion eliminates air gaps, delivering ultra-low loss and long-term stability that closely approach mainline splicing standards.

Features and Benefits

- Excellent performance deployment with increased first-pass termination yield
- Fast termination technique that can be completed with automated splicing tools
- No stripping or cleaning is required on the connector fiber stub
- No crimping, polishing or adhesives necessary for termination
- Superior insertion and return loss performance for future-proof networks



Connector Performance

Connector Type	Maximum Insertion Loss	Typical Insertion Loss	Minimum Return Loss
SC APC	0.3 dB	0.2 dB	60 dB
SC UPC	0.3 dB	0.2 dB	55 dB
LC APC	0.3 dB	0.2 dB	60 dB
LC UPC	0.3 dB	0.2 dB	55 dB

Polish, Inspect, and Perfect – Optimize Fiber Termination Performance

A highly efficient field splicing device custom-developed for fusion-splice-on connectors. Featuring built-in high-precision alignment algorithms and automated fusion and shaping procedures

Simplify Polishing, Monitoring and End-Face Integrity

Description	FOTUX Part Number
Splice-On Connector Fusion Splicer	FEM310



FEM310 Splice-On Connector Fusion Splicer



SC Simplex Pigtails,
Assortment



PTLUC0912015 Pigtail,
LC/UPC 12F, G657A2,
Tight Buffer 900 µm, 1.5 m

InfiniFiber Field Termination Pigtails

Within Optical Distribution Frames (ODFs) and terminal boxes, pigtails serve as the critical link connecting external optical cables to transmission equipment.

Features and Benefits

- Maximizes signal strength, minimizes data errors.
- Precise alignment for stable connections.
- Easy identification and faster installation.
- Superior durability with consistent performance.
- Saves time and ensures reliable splices.

Standard Performance

Specification	OM1	OM3	OM4	SM/UPC	SM/APC
Cable Performance					
Attenuation Max. 850 nm/1300 nm (dB/km)	3.5/1.2	3.0/1.0	3.0/1.2	-	-
Attenuation Max. 1310 nm/1550 nm (dB/km)	-	-	-	0.4/0.3	0.4/0.3
Cable Style					
900µm fiber Interconnect 2mm cords Interconnect 3mm cords					
Connector Performance - LC/SC					
IL Max. (dB)	0.25	0.25	0.15	0.30	0.30
Polish - RL Typ. (dB)	PC-20	PC-20	PC-20	UPC-55	APC-60

FOTUX Standard Pigtails Ordering Information

Pigtail	1. Choose Connector Type		2. Choose Fiber Type		3. Choose Cable Type		4. Choose Fiber Count		5. Choose Length	
PT	LU		C		09		01		005	
	Connector Type		Fiber Type		Cable Type		Fiber Count		Length	
	SA	SC/APC	1	OM1	09	900µm	01	Simplex	005	0.5M
	SU	SC/UPC	3	OM3	20	2mm	02	Duplex	010	1M
	LA	LC/APC	4	OM4	30	3mm	12	12 Fibers	030	3M
	LU	LC/UPC	5	OM5						
			B	G657A1						
			C	G657A2						

Example:

PTLUC0901030 Pigtail, LC/UPC Simplex, G657A2, Tight Buffer 900 µm, 3 m

InfiniFiber Field Termination Installation Kits and Accessories

Comfort-Driven, Repeatability-Focused and Performance-Proven

Designed to minimize operator fatigue while maximizing positioning accuracy, these installation kits offer reliable, repeatable performance in demanding shop-floor environments—delivering precision you can count on every time.

Installation Kits

Description	FOTUX Part Number
FTTH Fiber Quick Termination Kit	JW107

Accessories

Description	FOTUX Part Number
Precision Fiber Cleaver	FC-6S
Kevlar Cutter	KC-1
Visual Fault Locator	VFL-1
Precision Fiber Optic Stripper	CFS-2
FTTH Flat Drop Cable Stripper	DCS-1
Round Cable Stripper	RCS-114
Fiber Connector Cleaner	FCC-01
Ergonomic One-Click Cleaner	FOC-250C

Ensure Reliable Fiber Connectivity from Installation to Network Optimization

Designed for reliable performance, easy installation, and long-term durability, these products help simplify deployment, protect fiber integrity, and maintain stable optical transmission across telecom, data center, and FTTx networks.

Adaptors

Description	FOTUX Part Number
LC/UPC DX Adaptor with Flange	ADPDLU
LC/APC DX Adaptor with Flange	ADPDLA
LC/UPC Quad Adaptor with Flange	ADPQLU
LC/APC Quad Adaptor with Flange	ADPQLA
SC/UPC SX Adaptor with Flange	ADPSSU
SC/APC SX Adaptor with Flange	ADPSSA
SC/UPC DX Adaptor with Flange	ADPDSU
SC/APC DX Adaptor with Flange	ADPDSA

Mechanical Splices

Description	FOTUX Part Number
Mechanical Splice for 250µm/900µm Fiber	MS-2590
Mechanical Splice for 2*3mm Drop	MS-2030
Mechanical Splice for 2*3mm/2mm/3mm Drop	MS-2323
Mechanical Splice for 2F 2*3mm Drop	MS-2F23
Mechanical Splice for 1F or 2F 2*3mm Drop	MS-1F2F

Breakout Kits

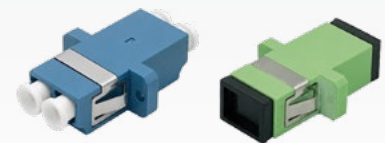
Description	FOTUX Part Number
Breakout Kit for 2.0 mm Subunits, 6F	BK-26
Breakout Kit for 3.0 mm Subunits, 12F	BK-312



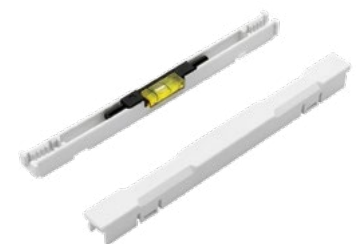
JW107 FTTH Fiber Quick Termination Kit



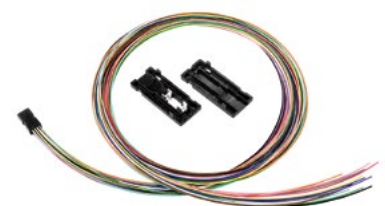
FCC-01 Fiber Connector Cleaner



ADPDLU LC/UPC
DX Adaptor with Flange
ADPSSA SC/APC
SX Adaptor with Flange



MS-2030 Mechanical Splice
for 2*3mm Drop



BK-312 Breakout Kit
for 3.0 mm Subunits, 12F

InfiniFiber Field Termination

Small Form Pluggable (SFP)

FOTUX Small Form Pluggable transceivers deliver high-speed data transmission with hot-swappable functionality, ensuring seamless network integration and reliable performance across diverse fiber-optic applications.

Features and Benefits

- Hot-swappable design minimizes network downtime during upgrades.
- Low power consumption significantly reduces operational energy costs.
- Wide operating temperature ensures stable performance in harsh environments.
- Full compliance with MSA standards guarantees interoperability with major brands.
- Digital diagnostics monitoring enables real-time link performance tracking.



SFP-10DLX131002K 1.25G SFP
1310nm 2km Duplex LC/UPC

FOTUX Standard 1.25G SFP

Description	FOTUX Part Number
1.25G SFP 850nm 550m Duplex LC/UPC	SFP-10DLX085055M
1.25G SFP 1310nm 2km Duplex LC/UPC	SFP-10DLX131002K
1.25G SFP 1310nm 10km Duplex LC/UPC	SFP-10DLX131010K
1.25G SFP 1310nm 20km Duplex LC/UPC	SFP-10DLX131020K
1.25G SFP 1550nm 40km Duplex LC/UPC	SFP-10DLX155040K
1.25G SFP 1550nm 80km Duplex LC/UPC	SFP-10DLX155080K
1.25G SFP 1550nm 100km Duplex LC/UPC	SFP-10DLX1550100
1.25G SFP 1550nm 120km Duplex LC/UPC	SFP-10DLX1550120
1.25G SFP BiDi 1310nm-TX/1550nm-RX 10km LC/UPC	SFP-10SLX315510K
1.25G SFP BiDi 1310nm-TX/1550nm-RX 20km LC/UPC	SFP-10SLX315520K
1.25G SFP BiDi 1310nm-TX/1550nm-RX 40km LC/UPC	SFP-10SLX315540K
1.25G SFP BiDi 1490nm-TX/1550nm-RX 60km LC/UPC	SFP-10SLX495560K
1.25G SFP BiDi 1490nm-TX/1550nm-RX 80km LC/UPC	SFP-10SLX495580K



SFP-1PDLX085030M 10G SFP+
850nm 300m Duplex LC/UPC

FOTUX Standard 10G SFP+

Description	FOTUX Part Number
10G SFP+ 850nm 300m Duplex LC/UPC	SFP-1PDLX085030M
10G SFP+ 1310nm 2km Duplex LC/UPC	SFP-1PDLX131002K
10G SFP+ 1310nm 10km Duplex LC/UPC	SFP-1PDLX131010K
10G SFP+ 1310nm 20km Duplex LC/UPC	SFP-1PDLX131020K
10G SFP+ 1550nm 40km Duplex LC/UPC	SFP-1PDLX155040K
10G SFP+ 1550nm 80km Duplex LC/UPC	SFP-1PDLX155080K
10G SFP+ 1550nm 100km Duplex LC/UPC	SFP-1PDLX1550100
10G SFP+ 1550nm 120km Duplex LC/UPC	SFP-1PDLX1550120
10G SFP BiDi 1310nm-TX/1550nm-RX 10km LC/UPC	SFP-1PSLX315510K
10G SFP BiDi 1310nm-TX/1550nm-RX 20km LC/UPC	SFP-1PSLX315520K
10G SFP BiDi 1310nm-TX/1550nm-RX 40km LC/UPC	SFP-1PSLX315540K
10G SFP BiDi 1490nm-TX/1550nm-RX 60km LC/UPC	SFP-1PSLX495560K
10G SFP BiDi 1490nm-TX/1550nm-RX 80km LC/UPC	SFP-1PSLX495580K



SFP-28DLX085030M 25G SFP28
850nm 300m Duplex LC/UPC

FOTUX Standard 25G SFP28

Description	FOTUX Part Number
25G SFP28 850nm 100m Duplex LC/UPC	SFP-28DLX085010M
25G SFP28 850nm 300m Duplex LC/UPC	SFP-28DLX085030M
25G SFP28 1310nm 300m Duplex LC/UPC	SFP-28DLX131030M
25G SFP28 1310nm 10km Duplex LC/UPC	SFP-28DLX131010K
25G SFP28 1310nm 20km Duplex LC/UPC	SFP-28DLX131020K
25G SFP28 1310nm 40km Duplex LC/UPC	SFP-28DLX131040K
25G SFP28 BiDi 1270nm-TX/1330nm-RX 10km LC/UPC	SFP-28SLX273310K
25G SFP28 BiDi 1270nm-TX/1330nm-RX 20km LC/UPC	SFP-28SLX273320K
25G SFP28 BiDi 1270nm-TX/1330nm-RX 40km LC/UPC	SFP-28SLX273340K

FOTUX Standard 40G QSFP+

Description	FOTUX Part Number
40G QSFP+ 850nm 100m Duplex LC/UPC	SFP-QPDLX085010M
40G QSFP+ 850nm 300m Duplex LC/UPC	SFP-QPDLX085030M
40G QSFP+ 850nm 150m MPO-12/UPC	SFP-QP12U085015M
40G QSFP+ 850nm 400m MPO-12/UPC	SFP-QP12U085040M
40G QSFP+ 1310nm 2km MPO-12/APC	SFP-QP12A131002K
40G QSFP+ 1310nm 10km MPO-12/APC	SFP-QP12A131010K
40G QSFP+ 1310nm 2km Duplex LC/UPC	SFP-QPDLX131002K
40G QSFP+ 1310nm 10km Duplex LC/UPC	SFP-QPDLX131010K
40G QSFP+ 1310nm 20km Duplex LC/UPC	SFP-QPDLX131020K
40G QSFP+ 1310nm 40km Duplex LC/UPC	SFP-QPDLX131040K
40G QSFP+ 1310nm 80km Duplex LC/UPC	SFP-QPDLX131080K



SFP-QPDLX131010K
40G QSFP+ 1310nm 10km
Duplex LC/UPC

FOTUX Standard 100G QSFP28

Description	FOTUX Part Number
100G QSFP28 850nm 100m Duplex LC/UPC	SFP-Q8DLX085010M
100G QSFP28 850nm 100m MPO-12/UPC	SFP-Q812U085010M
100G QSFP28 850nm 300m MPO-12/UPC	SFP-Q812U085030M
100G QSFP28 1310nm 2km MPO-12/APC	SFP-Q812A131002K
100G QSFP28 1310nm 10km MPO-12/APC	SFP-Q812A131010K
100G QSFP28 1310nm 2km Duplex LC/UPC	SFP-Q8DLX131002K
100G QSFP28 1310nm 10km Duplex LC/UPC	SFP-Q8DLX131010K
100G QSFP28 1310nm 20km Duplex LC/UPC	SFP-Q8DLX131020K
100G QSFP28 1310nm 40km Duplex LC/UPC	SFP-Q8DLX131040K
100G QSFP28 1310nm 80km Duplex LC/UPC	SFP-Q8DLX131080K



SFP-Q8DLX085010M
100G QSFP28 850nm 100m
Duplex LC/UPC

FOTUX Standard SFP Ordering Information

Small Form Pluggable	1. Choose Transmission Rate		2. Choose Connector Type		3. Choose Wavelength		4. Choose Distance		5. Choose Compatibility	
SFP	1P		DLX		1310		10K		CIS	
	Transmission Rate		Connector Type		Wavelength		Distance		Compatibility	
	10	10 1.25G	DLX	Duplex LC/UPC	850nm	850nm 0850	100M	10M	GEN	Open Generic
	1P	1P 10G	SLX	Simplex LC/UPC	1310	1310nm	30M	300M	CIS	Cisco
	28	28 25G	12U	MPO-12/UPC	1550	1550nm	02K	2KM	HUA	Huawei
	QP	QP 40G	12A	12A MPO-12/APC	2733	1270nm-TX/1330nm-RX	10K	10KM	JUN	Juniper
	Q8	Q8 100G			3155	1310nm-TX/1550nm-RX	20K	20KM	HPA	HP/Aruba
					4955	1490nm-TX/1550nm-RX				

Examples:

SFP-1PDLX131002K-HUA 10G SFP+ 1310nm 2km Duplex LC/UPC Huawei

SFP-28SLX273310K-CIS 25G SFP28 BiDi 1270nm-TX/1330nm-RX 10km LC/UPC Cisco

SFP-Q812U085030M-GEN 100G QSFP28 850nm 300m MPO-12/UPC Open Generic



SC Duplex Patch Cords, Assortment



LC Duplex Patch Cords, Assortment



SC Simplex Patch Cords, Assortment



LC Simplex Patch Cords, Assortment

InfiniFiber Pre-Terminated Assemblies

Simplex & Duplex Patch Cords

FOTUX simplex and duplex patch cords guarantee maximum reliability and minimum attenuation. Manufactured with high-precision zirconium ceramic ferrules, they ensure stable and carrier-grade interconnection.

Features and Benefits

- Low insertion loss ensures optimal signal integrity across the link.
- High repeatability guarantees consistent performance after multiple connections.
- Ceramic ferrule construction provides superior alignment and long-term durability.
- Flexible jacketing options enable easy installation in tight spaces.
- Compliant with industry standards ensures seamless compatibility with existing equipment.

Standard Performance

Specification	OM1	OM3	OM4	OM5	SM/UPC	SM/APC
Cable Performance						
Attenuation Max. 850 nm/1300 nm (dB/km)	3.5/1.2	3.0/1.0	3.0/1.0	3.0/1.0	-	-
Attenuation Max. 1310 nm/1550 nm (dB/km)	-	-	-	-	0.4/0.3	0.4/0.3
Cable Style			Interconnect 1.6 mm Interconnect 2 mm Interconnect 3 mm			
Jacket Color	Orange	Aqua	Violet	Lime Green	Yellow	Yellow
Connector Performance - LC/SC						
IL Max. (dB)	0.25	0.25	0.15	0.15	0.30	0.30
Polish - RL Typ. (dB)	PC-20	PC-20	PC-20	PC-30	UPC-55	APC-60
Connector Color	Beige	Aqua	Violet	Lime Green	Blue	Green

FOTUX Standard Patch Cords Ordering Information

Patch Cord	1. Choose Connector A Type	2. Choose Connector B Type	3. Choose Fiber Type	4. Choose Cable Type	5. Choose Fiber Count	6. Choose Length
PC	SA	SU	B	30	01	003M
	Connector A Type	Connector B Type	Fiber Type	Cable Type	Fiber Count	Length
	SA SC/APC	SA SC/APC	1 OM1	16 1.6mm	01 Simplex	001M to 010M *use M as decimal
	SU SC/UPC	SU SC/UPC	3 OM3	20 2mm	02 Duplex	
	LA LC/APC	LA LC/APC	4 OM4	30 3mm		
	LU LC/UPC	LU LC/UPC	5 OM5			
			B G657A1			
			C G657A2			

Example:

PCSASAB2002003M Patch Cord, SC/APC to SC/APC Duplex, G657A1, 2mm, 3m

InfiniFiber Pre-Terminated Assemblies

Splitters

FOTUX optical splitters constitute the passive distribution core in ODN networks. PLC (Planar Lightwave Circuit) technologies for high-capacity homogeneous splits and FBT (Fused Biconical Taper) for flexible and unbalanced architectures.

Features and Benefits

- Low insertion loss preserves signal strength across all output ports.
- High channel uniformity ensures balanced power distribution to each branch.
- Wide wavelength range supports both 1310nm and 1550nm operations.
- Compact form factor allows easy integration into space-constrained enclosures.
- Excellent environmental stability guarantees reliable performance in varying conditions.

Standard Performance - PLC

Specification	2	4	8	16	32	64
Splitter Performance-1xN						
IL Max. (dB)	3.8	7.5	10.5	13.6	16.9	20.3
IL Uniformity Max. (dB)	0.6	0.6	1.0	1.0	1.3	1.8
PDL Max. (dB)	0.2	0.2	0.3	0.3	0.3	0.4
Directivity Min. (dB)			55			
Splitter Performance-2xN						
IL Max. (dB)	-	7.6	11.2	14.2	17.5	21.2
IL Uniformity Max. (dB)	-	1.0	1.2	1.5	1.8	3.0
PDL Max. (dB)	-	0.3	0.3	0.3	0.3	0.4
Directivity (dB)			55			

Standard Performance - FBT

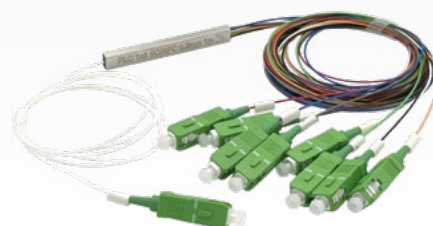
Specification	50/50	60/40	70/30	80/20	90/10
Splitter Performance					
IL Max. (dB)	3.6	4.1/3.1	6.0/2.0	8.0/1.3	11.5/0.8
PDL Max. (dB)	0.15	0.15	0.15	0.15	0.15
EL Max. (dB)	0.2	0.2	0.2	0.2	0.2
Directivity Min. (dB)			55		



PLCMD108SAC2015 ABS Module
PLC Splitter, 1:8, SC/APC, G657A2,
2 mm, 1.5 m



PLCCT232SAB Cassette PLC Splitter,
2:32, SC/APC, G657A1



PLCMN108SAC0915 Mini PLC
Splitter, 1:8, SC/APC, G657A2, 900
μm, 1.5 m



FBT70SUC2015 FBT Splitter, 70/30,
SC/UPC, G657A2, 2mm, 1.5 m

FOTUX Standard PLC Splitters Ordering Information

PLC Splitter	1. Choose Splitter Type	2. Choose Split Ratio	3. Choose Connector Type	4. Choose Fiber Type	5. Choose Cable Type	6. Choose Pigtail Length
PLC	MN	108	NA	B	02	05
	Splitter Type	Split Ratio	Connector Type	Fiber Type	Cable Type	Pigtail Length
MN	Mini	102 1:2	SA SC/APC	B G657A1	02 250µm	05 0.5M
MD	ABS Module	104 1:4	SU SC/UPC	C G657A2	09 900µm	10 1.0M
CT	Cassette	108 1:8	NA Without Connector		20 2mm	15 1.5M
		116 1:16				
		132 1:32				
		164 1:64				
		204 2:4				
		208 2:8				
		216 2:16				
		232 2:32				
		264 2:64				

Example:

PLCMN104NAC0905 Mini PLC Splitter, 1:4, G657A2, 900 µm, 0.5 m

PLCMD116SAC2015 ABS Module PLC Splitter, 1:16, SC/APC, G657A2, 2 mm, 1.5 m

PLCCT18SUB Cassette PLC Splitter, 1:8, SC/UPC, G657A1

FOTUX Standard FBT Splitters Ordering Information

FBT Splitter	1. Choose Split Ratio	2. Choose Connector Type	3. Choose Fiber Type	4. Choose Cable Type	5. Choose Pigtail Length
FBT	60	SA	B	02	05
	Split Ratio	Connector Type	Fiber Type	Cable Type	Pigtail Length
50	50/50	SA SC/APC	B G657A1	02 250µm	05 0.5M
60	60/40	SU SC/UPC	C G657A2	09 900µm	10 1.0M
70	70/30	NA Without Connector		20 2mm	15 1.5M
80	80/20				
90	90/10				

Example:

FBT70NAC0205 FBT Splitter, 70/30, G657A2, 250 µm, 0.5 m

InfiniFiber Pre-Terminated Assemblies

Breakout Assemblies

FOTUX Breakout (Fan-Out) assemblies allow the direct transition of multi-fiber cables to individual connectors, eliminating additional splice trays. The reinforced 2.0 mm subunits allow direct connection to switches, transceivers or ODFs

Features and Benefits

- Rugged construction protects fibers in demanding indoor and outdoor environments
- Multi-fiber one-time splicing enables plug-and-play branches for faster deployment
- Individual sub-cable sheaths provide flexible bending and easy routing around corners
- Precision fanout construction ensures reliable fiber protection and low insertion loss
- 100% factory terminated and tested for guaranteed performance out of the box

Standard Performance

Specification	OM3	OM4	OM5	SM/UPC	SM/APC
Cable Performance					
Attenuation Max. 850 nm/1300 nm (dB/km)	3.0/1.0	3.0/1.0	3.0/1.0	-	-
Attenuation Max. 1310 nm/1550 nm (dB/km)	-	-	-	0.4/0.3	0.4/0.3
Cable Style					
	MPO: Interconnect 3.0 mm LC: Interconnect 2.0 mm				
Jacket Color	Aqua	Erika Violet	Lime Green	Yellow	Yellow
Connector Performance - LC					
IL Max. (dB)	0.25	0.15	0.15	0.25	0.25
Polish - RL Typ. (dB)	PC-20	PC-20	PC-20	UPC-55	APC-60
Fanout Length	0.5 m				
Connector Color	Aqua	Violet	Lime Green	Blue	Green
Connector Performance - MPO 12					
IL Max. (dB)	0.35	0.2	0.2	0.35	0.35
Polish - RL Typ. (dB)	PC-20	PC-20	PC-20	UPC-55	APC-60
Polarity	Type A				
Connector Color	Aqua	Violet	Lime Green	Blue	Green



BALUMMC003M Breakout Assembly, MPO-12(M) to 12 x LC/UPC, G657A2, 3m



BALUMF3003M Breakout Assembly, MPO-12(F) to 12 x LC/UPC, OM3, 3m



BALU8M4003M Breakout Assembly, MPO-12 (M) Base-8 to 12 x LC/UPC, OM4, 3m

FOTUX Standard Breakout Assemblies Ordering Information

Breakout Assembly	1. Choose Connector A Type	2. Choose Connector B Type	3. Choose Fiber Type	4. Choose Length
BA	LU	MM	3	003M
	Connector A Type	Connector B Type	Fiber Type	Length
	LA LC/APC	MM MPO-12 (M)	3 OM3	001M to 015M *use M as decimal
	LU LC/UPC	MF MPO-12 (F)	4 OM4	
		8M MPO-12 (M) Base-8	5 OM5	
		8F MPO-12 (F) Base-8	B G657A1	
			C G657A2	

Example:

BALUMM3003M Breakout Assembly, MPO-12(M) to 12 x LC/UPC, OM3, 3m



MTMCC012003M MPO Trunk
G657A2, MPO-12 (Male to Male),
Type-C, 12 MPO (12 fibers), 3 m



MTM3A012003M MPO Trunk OM3,
MPO-12 (Male to Male), Type-A, 12
MPO (12 fibers), 3 m



MTF4A012003M MPO Trunk OM4,
MPO-12 (Female to Female), Type-A,
12 MPO (12 fibers), 3 m

InfiniFiber Pre-Terminated Assemblies

MPO Trunks

FOTUX MPO trunks deliver high-density 8- to 144-fiber connectivity with factory-terminated premium ferrule technology, enabling rapid deployment for data center backbone and high-speed enterprise network infrastructure.

Features and Benefits

- High-density fiber interface maximizes port utilization and saves rack space.
- Factory-polished endfaces ensure low insertion loss and optimal optical performance.
- Round flexible cable design facilitates easy routing through conduits and cable trays.
- Polarity management options support A/B/C configurations for diverse network architectures.
- Plug-and-play installation significantly reduces deployment time and labor costs.

Standard Performance

Specification	OM3	OM4	OM5	SM/APC
Cable Performance				
IL Max. 850 nm/1300 nm (dB/km)	3.0/1.2	3.0/1.0	3.0/1.0	-
IL Max. 1310 nm/1550 nm (dB/km)	-	-	-	0.4/0.3
Cable Style				
Distribution cables				
Jacket Color	Aqua	Violet	Lime Green	Yellow
Connector Performance – MPO 12				
IL Max. (dB)	0.35	0.2	0.2	0.35
Polish - RL Typ. (dB)	PC-20	PC-20	PC-20	APC-60
Fanout Length	0.5 m			
Connector Color	Aqua	Violet	Lime Green	Green

FOTUX Standard MPO Trunks Ordering Information

MPO Trunk	1. Choose Connector Gender	2. Choose Fiber Type	3. Choose Polarity	4. Choose Fiber Count	5. Choose Length
MT	M	3	A	012	010M
	Connector Gender	Fiber Type	Polarity	Fiber Count	Length
M	Male to Male	3 3 OM3	A Type-A	008 8 Fibers	005M to 500M M Meters *use M as decimal
F	Female to Female	4 OM4	B Type-B	012 12 Fibers	
E	Extension (M to F)	5 OM5	C Type-C	016 16 Fibers	
		C G657A2		024 24 Fibers	
				036 36 Fibers	
				048 48 Fibers	
				072 72 Fibers	
				096 96 Fibers	
				144 144 Fibers	

Examples:

MTM4B024010M MPO Trunk OM4, MPO-12 (Male to Male), Type-B, 2 MPO (24 fibers), 10m

MTF3A036025M MPO Trunk OM3, MPO-12 (Female to Female), Type-A, 3 MPO (36 fibers), 25m

MTTECC144050M - MPO Trunk G657A2, MPO-12 (Male to Female), Type-C, 12 MPO (144 fibers), 50 m

InfiniFiber Pre-Terminated Assemblies

Pre-Terminated Drop Cables

FOTUX pre-terminated drop cables eliminate the need for fusion splices in the “last mile”. Equipped with Hardened IP68 connectors, they provide instant connection (Plug & Play) in harsh outdoor environments.

The FOTUX hardened 3in1 pre-terminated drop cable supports for rapid, cost-effective last-mile deployments

Features and Benefits

- Universal 3-in-1 connector design ensures compatibility with Slim, OPT, and FastConnect interfaces
- IP68-rated waterproof protection delivers reliable outdoor performance in harsh environmental conditions
- Hardened connector with self-alignment and locking mechanisms prevents connection errors and accidental release

Cable Performance

Cable Type	Maximum Attenuation 1310 nm/1550 nm	Typical Attenuation 1310 nm/1550 nm	Tensile Strength- Installation	Tensile Strength- Operation
2*3mm Flat Drop	0.4/0.3 dB/km	0.35/0.21 dB/km	80 N	40 N
2*5mm Flat Drop	0.4/0.3 dB/km	0.35/0.21 dB/km	600 N	300 N
3mm Round Drop	0.4/0.3 dB/km	0.35/0.21 dB/km	400 N	200 N
5mm Round Drop	0.4/0.3 dB/km	0.35/0.21 dB/km	600 N	300 N

Connector Performance

Connector Type	Maximum Insertion Loss	Typical Insertion Loss	Minimum Return Loss
OptiTap	0.3 dB	0.2 dB	55 dB
FastConnect	0.3 dB	0.2 dB	55 dB
Slim	0.3 dB	0.2 dB	55 dB
Easily Pullable SC/APC	0.3 dB	0.2 dB	55 dB
SC/APC	0.3 dB	0.2 dB	55 dB
SC/UPC	0.3 dB	0.2 dB	50 dB



3-in-1 Hardened Connector



PDF8FCEPC050M Pre-Terminated Drop Cable, 2*5mm, FastConnect to Easily Pullable SC/APC, G657A2, 50M



PDR50T0TC050M Pre-Terminated Drop Cable, 5mm, OptiTap to OptiTap, G657A2, 50M

FOTUX Standard Pre-Terminated Drop Cables Ordering Information

Pre-Terminated Drop Cable	1. Choose Cable Type	2. Choose Connector A Type	3. Choose Connector B Type	4. Choose Fiber Type	5. Choose Length
PD	F8	FC	NA	C	100M
	Cable Type	Connector A Type	Connector B Type	Fiber Type	Length
FD	2*3mm Flat Drop	OT OptiTap	OT OptiTap	B G657A1	050M to 200M M Meters *use M as decimal
F8	2*5mm Flat Drop	FC FastConnect	FC FastConnect	C G657A2	
R3	3mm Round Drop	SM Slim	SM Slim		
R5	5mm Round Drop	EP Easily Pullable SC/APC	EP Easily Pullable SC/APC		
		SA SC/APC	SA SC/APC		
		SU SC/UPC	SU SC/UPC		
			NA Without Connector		

Examples:

PDFDSASAC050M Pre-Terminated Drop Cable, 2*3mm, SC/APC to SC/APC, G657A2, 50 m

PDF8FCNAC120M Pre-Terminated Drop Cable, 2*5mm, FastConnect, G657A2, 120 m

PDR50TSAC100M Pre-Terminated Drop Cable, 5mm, OptiTap to SC/APC, G657A2, 100 m

InfiniFiber Pre-Terminated Assemblies

Active Optical Cables (AOC)

FOTUX Active Optical Cables integrate optical transceivers with fiber cabling into a sealed assembly, delivering high-bandwidth, low-latency connectivity for short- to medium-range links in data centers and HPC environments.

Features and Benefits

- Embedded optical engines eliminate costly external transceivers and reduce overall link expenses.
- Low power consumption lowers operational costs and simplifies thermal management in dense racks.
- Electromagnetic immunity ensures error-free transmission in electrically noisy data center environments.
- Sealed one-piece design prevents connector contamination and enhances long-term link reliability.
- Lightweight flexible construction eases cable management and improves airflow within high-density racks.

FOTUX Standard AOC

Description	FOTUX Part Number
10G SFP+ to SFP+ Active Optical Cable	AOC-1P1P
25G SFP28 to SFP28 Active Optical Cable	AOC-2828
40G QSFP+ to QSFP+ Active Optical Cable	AOC-QPQP
40G QSFP+ to 4xSFP+ Active Optical Cable	AOC-QP1P
100G QSFP28 to QSFP28 Active Optical Cable	AOC-Q8Q8
100G QSFP28 to 4xSFP28 Active Optical Cable	AOC-Q828



AOC-1P1P
10G SFP+ to SFP+
Active Optical Cable



AOC-QP1P
40G QSFP+ to 4xSFP+
Active Optical Cable

FOTUX Standard AOC Ordering Information

Active Optical Cable	1. Choose Side A		2. Choose Side B		3. Choose Compatibility		4. Choose Length	
AOC	28		28		GEN		003M	
	Side A		Side B		Compatibility		Length	
	1P	10G	1P	10G	GEN	Open Generic	001M to 100M	M Meters *use M as decimal
	28	25G	28	25G	CIS	Cisco		
	QP	40G	QP	40G	HUA	Huawei		
	Q8	100G	Q8	100G	JUN	Juniper		
					HPA	HP/Aruba		

Example:

AOC-2828HUA003M 25G SFP28 to SFP28 Active Optical Cable, Huawei, 3m

InfiniFiber Cable Management Closures

Dome Splice Closures

FOTUX Dome Splice Closures provide UV and impact-resistant protection for fiber connections in extreme climates, using Mechanical and Heat Shrinkable Sealing.

Heat Shrinkable Sealing Family

Features and Benefits

- **Superior Sealing Performance:** Utilizing heat-shrink tubing technology to create a durable adhesive seal at cable ports, providing IP68-level water and dust protection—ideal for underground, humid, or water-immersed environments.
- **Maintenance-Free Reliability:** Once installed, the heat-shrink seal offers superior resistance to vibration and temperature cycling.
- **Enhanced Strain Relief:** The heat-shrink material conforms tightly to the cable surface, effectively dispersing external physical stress and preventing signal loss caused by accidental cable pull-out or twisting.

Connector Performance

Housing Material	PP
Splice capacity, max.	Single splicing, 144F
Main cable entry	10-29mm
Branch cable port	6-12mm
Splice tray, maximum	6
Air Pressure Test Valve	Optional
Grounding Device	Optional
Dimension, mm	161*420
Cable sealing	Heat Shrinkable
Protection grade	IP68
Mounting	Pole Wall Strand DB*

Note: DB means Direct Burial. It is a means of field installation.



Available Accessories



Other Available Models

Models	FX-DSI13HA SERIES	FX-DSI13HB SERIES	FX-DSI14HD SERIES	FX-DSI14HE SERIES
Housing Material	PP	PP	PP	PP
Splice capacity, max.	48F	48F	96F	144F
Main cable entry	8-27mm	8-31mm	8-35mm	8-35mm
Branch cable port	6-21mm	6-20mm	7-18mm	7-25mm
Splice tray, max.	4	2	4	6
Air Pressure Test Valve	Optional	Optional	N/A	Pre-installed
Grounding Device	Optional	Optional	Pre-installed	Pre-installed
Dimension, mm	190*300	170*335	190*435	210*540
Protection grade	IP68			
Mounting	Pole Wall Strand (Per on-site installation)			



FX-DSI13HA SERIES



FX-DSI13HB SERIES



FX-DSI14HD SERIES



FX-DSI14HE SERIES

Mechanical Sealing Family

FOTUX Mechanical Sealing Dome Closures use mechanical grommets and compression mechanisms for tool-less re-entry, easy maintenance, and reliable IP68 protection in harsh environments.

Available Models

Models	FX-DSI14MA SERIES	FX-DSI14MB SERIES	FX-DSI14MC SERIES	FX-DSI16MA SERIES
Housing Material	PP	PP	PP	ABS
Splice capacity, max.	144F	144F	144F	288F
Main cable entry	8-18mm	8-18mm	6-18mm	8-18mm
Branch cable port	8-13mm	6-18mm	6-18mm	6-18mm
Splice tray, max.	6	6	6	12
Air Pressure Test Valve	Optional	Pre-installed	Optional	Pre-installed
Grounding Device	Pre-installed	Optional	Optional	Optional
Dimension, mm	235*420	220*550	200*500	300*510
Protection grade	IP68			
Mounting	Pole Wall Strand (Per on-site installation)			



FX-DSI14MA SERIES



FX-DSI14MB SERIES



FX-DSI14MC SERIES



FX-DSI16MA SERIES



External



Internal



Cable port



Gland

InfinitiFiber Cable Management Closures

In-line Closures

FOTUX In-line Splice Closures feature a horizontal split structure that seamlessly joins cables into a continuous pathway, providing flexible straight-through or branching routing while ensuring total mechanical and environmental protection.

Features and Benefits

- **High-Density Port & Splice Capacity:** Features 20 cable ports (supporting multiple cable diameters) with a maximum splicing capacity of up to 144 optical fibers across 3 splice trays.
- **IP68 Ingress Protection:** Tested to withstand water immersion at a depth of 5 meters for up to 7 days.
- **Industrial-Grade Durability:** Constructed using Glass Fiber Reinforced Polypropylene (PP+GF) for the enclosure, along with stainless steel tightening screws and gaskets for improved durability in harsh environments.
- **Versatile Deployment Options:** Suitable for aerial, wall, pipeline, manhole, and direct burial outdoor installations.

FX-HS4D16A SERIES

Available Configurations

Housing Material	PP+GF
Splice capacity, max.	Single splicing, 144F
Main cable entry	9-11mm
Branch cable port	4-6mm
Splice tray, maximum	3
Air Pressure Test Valve	Optional
Grounding Device	Pre-installed
Dimension, mm	510*230*150
Cable sealing	Mechanical
Protection grade	IP68
Mounting	DB* Wall Strand

Note: DB means Direct Burial. It is a means of field installation.

Available Accessories



Strand mounting kit



Wall mounting kit



Plug kit

Other Available Models

Models	FX-HS4DA SERIES	FX-HS4DB SERIES	FX-HS4DC SERIES	FX-HS4DD SERIES
Housing Material	PC	ABS	PC	ABS
Splice capacity, max.	48F	144F	144F	24F
Cable entries	2in – 2out	2in – 2out	2in – 2out	2in – 2out
Cable Dia.	8-15mm	8-22mm	8-24mm	7-10mm
Splice tray, max.	4	6	6	1
Air Pressure Test Valve	Optional	Optional	Optional	N/A
Grounding Device	Optional	Optional	Optional	N/A
Dimension, mm	410*170*80	435*190*120	460*190*120	245*150*30
Protection grade	IP68			
Mounting	DB* Duct Strand (Per on-site installation)			

Note: DB means Direct Burial. It is a means of field installation.



FX-HS4DA SERIES



FX-HS4DB SERIES



FX-HS4DC SERIES



FX-HS4DD SERIES

Models	FX-HS4DE SERIES	FX-HS4DF SERIES	FX-HS6DA SERIES	FX-HS6DC SERIES
Housing Material	ABS	ABS	PC	PC
Splice capacity, max.	24F	24F	96F	240F
Cable entries	2in – 2out	2in – 2out	3in – 3out	3in – 3out
Cable Dia.	10-22mm	10-22mm	8-13/16/20mm	6-16/20/23mm
Splice tray, max.	4	4	4	10
Air Pressure Test Valve	N/A	Pre-installed	Optional	Optional
Grounding Device	Optional	Optional	Optional	Optional
Dimension, mm	350*145*90	440*165*110	396*200*126	410*205*134
Protection grade	IP68			
Mounting	DB* Duct Strand (Per on-site installation)			

Note: DB means Direct Burial. It is a means of field installation.



FX-HS4DE SERIES



FX-HS4DF SERIES



FX-HS6DA SERIES



FX-HS6DC SERIES



External



Internal



Cable port



Adaptor

InfinitiFiber Cable Management Closures

Pre-connectorized NAP

Built with factory-terminated adapters, pre-connectorized NAPs enable quick "plug-and-play" subscriber connections without opening the closure or field splicing. Featuring IP68 weatherproofing and integrated splitting, this solution drastically reduces FTTH installation time, labor costs, and field error risks.

Features and Benefits

- **Pre-Connectorized Plug-and-Play Design:** Equipped with 9 ports using outdoor fast connectors and adapters for rapid, toolless field connection to save deployment time.
- **IP68 Ingress Protection:** Utilizes a mechanical sealing system to achieve IP68 waterproof and dustproof protection for harsh outdoor environments.
- **Flexible Optical Splitting Capacity:** Built to accommodate a combination of micro splitters (1:2 + 1:8) or customized unsymmetrical splitters to meet various bandwidth configuration needs.
- **Versatile Outdoor Mounting Options:** Supports multiple installation methods, including aerial, wall, and pole mounting.

FX-DBCD9A SERIES

Available Configurations

Housing Material	PP
Cable ports	9, 1in – 8out
Adapter type	C type Hardened SC/APC SC/UPC
Splice tray, max.	1
Distribution type	1x2 splitter 1x8 splitter
Split ratio	Symmetrical
Dimension, mm	258*141*90
Protection grade	IP68
Mounting	Pole Wall Strand

Available Accessories



Pole mounting kit



Wall mounting kit



Strand mounting kit

Other Available Models

Models	FX-DBCD5A SERIES	FX-DBCD12A SERIES	FX-DBCD18A SERIES
Housing Material	PP	PP	PP
Cable ports	5, 1in – 4out	12, 1in – 11out	18, 1in – 17out
Adapter type	A type hardened SC/APC SC/UPC		
Distribution type	1x2 FTB 1x2 splitter	1x2 FTB 1x8 splitter	1x2 FTB 1x8 splitter 1x16 splitter
Split ratio		90/10 80/20 70/30 60/40 50/50	
Dimension, mm	168*138*78	199*193*78	199*193*107
Protection grade		IP68	
Mounting	Pole Wall Strand (Per on-site installation)		



FX-DBCD5A SERIES



FX-DBCD12A SERIES



FX-DBCD18A SERIES

Models	FX-DBCH416A SERIES	FX-DBCH416D SERIES	FX-DBCT48B SERIES	FX-DBCT416A SERIES
Housing Material	PP	PP	PP	PP
Splice capacity, max.	Based on the selected splice tray		36F	48F
Inline cable ports	1in – 1out	1in – 1out	2in – 2out	2in – 2out
Cable Dia.	8-18mm	8-18mm	8-11mm	8-13mm
Branch cable ports	8-16mm	8-16mm	N/A	N/A
Adapter type	FastConnect			
Splice tray, max.	Based on the selected splice tray		3	2
Distribution type	1x2 splitter 1 x 4 splitter 1 x 8 splitter 1x16 splitter		1x8 splitter	1x8 splitter
Dimension, mm	378*255*136	319*214*133	348*277*125	359*277*120
Protection grade	IP65	IP65	IP55	IP55
Mounting	Pole Wall		Pole Wall	Wall Strand



FX-DBCH416A SERIES



FX-DBCH416D SERIES



FX-DBCT48B SERIES



FX-DBCT416A SERIES

InfiniFiber Cable Management Closures

Standard NAP

FOTUX Standard NAP Closures combine optical splitting, splicing, and distribution in a rugged enclosure, delivering a reliable, cost-effective solution for traditional FTTH drop cable deployments.

Available Models

Models	FX-DB216A-M SERIES	FX-DB416A SERIES	FX-DB416B2 SERIES	FX-DB816A SERIES
Housing Material	PC+ABS	PC+ABS	PC+ABS	PC+ABS
Splice capacity, max.	24F	16F	16F	32F
Inline cable ports	N/A	1in – 1out	1in – 1out	N/A
Cable Dia.	N/A	8-16mm	8-10mm	N/A
Branch cable ports	2	2	2	8
Cable Dia.	8-12mm	8-12mm	8-10mm	8-10mm, 12-14mm
Drop cable ports	16	16	16	16
Interface	SC/APC SC/UPC			
Splice tray, max.	1	1	1	2
Distribution type	1 x 8 splitter 1x16 splitter	1x8 splitter	1x8 splitter	1 x 8 splitter 1x16 splitter
Dimension, mm	306*236*102	410*375*630	300*210*90	165*291*115
Protection grade	IP55	IP65	IP65	IP65
Mounting (Per on-site installation)	Pole Wall Strand	Pole Wall	Pole Wall	Strand



FX-DB216A-M SERIES



FX-DB416A SERIES



FX-DB416B2 SERIES



FX-DB816A SERIES

Available Models

Models	FX-DB816B SERIES	FX-DBX416B SERIES	FX-DBX424A SERIES
Housing Material	PC+ABS	PC+ABS	PC+ABS
Splice capacity, max.	24F	Based on the selected splice tray	Based on the selected splice tray
Inline cable ports	N/A	1in – 1out	1in – 1out
Cable Dia.	N/A	8-18mm	10-18mm
Branch cable ports	8	2	2
Cable Dia.	7-16mm	8-16mm	8-16mm
Drop cable ports	16	16	24
Interface	SC/APC SC/UPC	SC/APC SC/UPC	SC/APC SC/UPC
Splice tray, max.	1	Based on the selected splice tray	Based on the selected splice tray
Distribution type	1 x 8 splitter 1x16 splitter	1 x 8 splitter 1x16 splitter	1 x 8 splitter 1x16 splitter
Dimension, mm	347*205*122	378*255*116	337*242*63
Protection grade	IP65	IP65	IP68
Mounting (Per on-site installation)	Strand	Pole Wall	Pole Wall



FX-DB816B SERIES



FX-DBX416B SERIES



FX-DBX424A SERIES

InfiniFiber Pre-Terminated Assemblies

Access Terminal Boxes

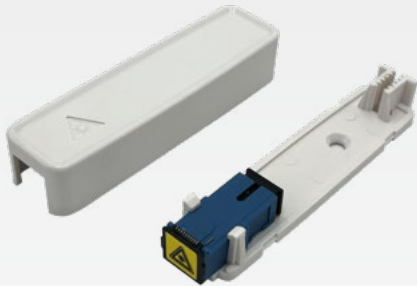
FOTUX Access Terminal Boxes serve as the final optical termination point in subscriber premises. They provide secure cable anchoring, fiber management, and easy connector interface for FTTH drop cable connections.

Features and Benefits

- **Compact & Discrete Design:** Ultra-compact profile for aesthetic indoor wall mounting.
- **Flexible Cable Compatibility:** Supports multiple cable types including micro indoor, flat drop, 3mm circular cables, and 0.9mm Invisible fibers.
- **Enhanced Safety:** Constructed from premium material tailored to meet UL94-V0 flame retardancy standards (optional), maximizing indoor electrical and fire safety, while also being RoHS compliant.
- **Easy Surface Mounting:** Easily installs on any flat vertical surface using standard mounting screws.



External



Internal

FX-ATB1PB SERIES

Other Available Models

Models	FX-ATB1PA SERIES	FX-ATB2PB SERIES	FX-ATB2PD SERIES	FX-ATB4PA SERIES
Housing Material	PC+ABS	PC+ABS	PC+ABS	PC+ABS
Interface	SC/APC SC/UPC			
Adapters Qty, max.	1	2	2	4
Dimension, mm	80*100*24	80*100*24	86*86*25	100*80*29
Flammability Rating	UL94-V0 UL94-V2			
Mounting	Wall			



FX-ATB1PA SERIES



FX-ATB2PB SERIES



FX-ATB2PD SERIES



FX-ATB4PA SERIES

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