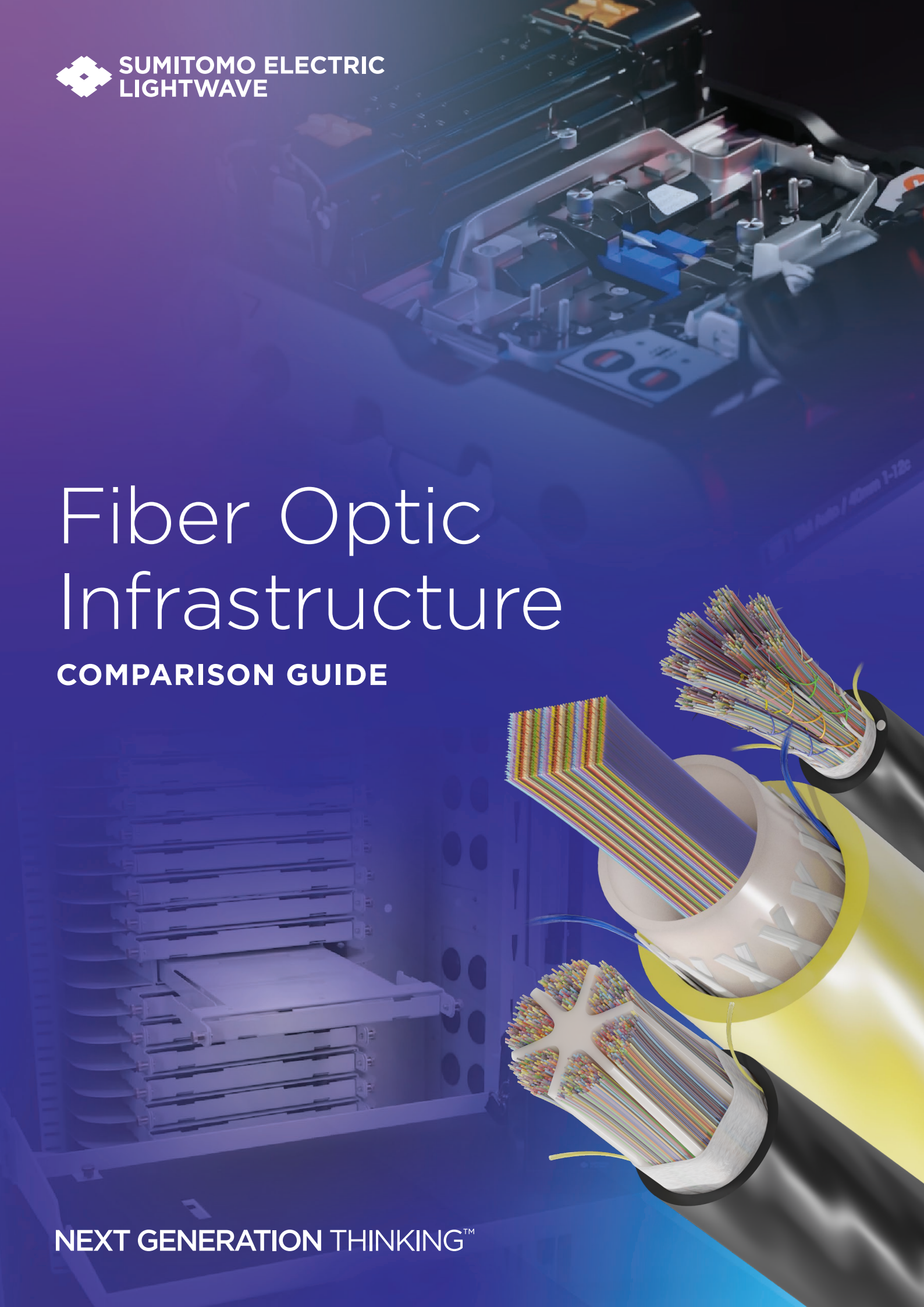
SUMITOMO ELECTRIC LIGHTWAVE

Fiber Optic Infrastructure

COMPARISON GUIDE



NEXT GENERATION THINKING™

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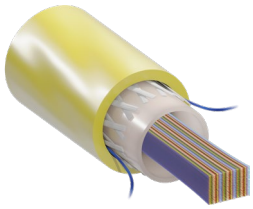
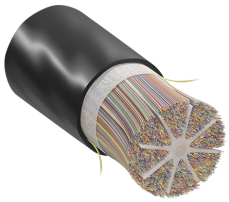
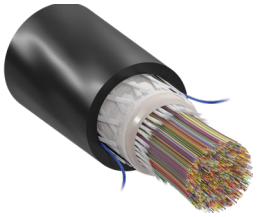
Cable - Indoor



	CENTRAL TUBE	CORDAGE
Application	ISP, ISP/OSP	ISP
Max Fiber Count	3,456F*	48F*
Cable Structure	Central Tube	Interconnect
Jacket Type	Riser, LSZH, Plenum	Plenum
Armor Type	No Armor, Interlocking Armor	Flexible, Ruggedized
Ribbon Type	Freeform Ribbon™, Standard Ribbon	Freeform Ribbon™
Fiber Size	250 µm, 200 µm - Freeform Ribbon™ only	250 µm
Fiber Type	SM, MM - Up to 432F	SM
Learn More About Product(s)	View Products	View Products

*Available fiber counts on product cut sheet

Cable - Outdoor

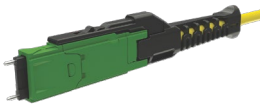



	SLOTTED CORE	CENTRAL TUBE	MICRODUCT	MONOTUBE
Application	OSP	OSP, OSP/ISP	OSP	OSP, OSP/ISP
Max Fiber Count	6,912F*	3,456F	864F	3,456F
Cable Structure	Slotted Core	Central Tube	Microduct	Monotube
Jacket Type	All-Dielectric, Conventional	All-Dielectric, Conventional, Riser, Plenum, LSZH	All-Dielectric	All-Dielectric, Conventional, Riser, LSZH
Armor Type	No Armor, Steel Tape Armor	No Armor, Interlocking Armor, Steel Tape Armor	No Armor	No Armor
Ribbon Type	Freeform Ribbon™	Freeform Ribbon™, Standard Ribbon	Freeform Ribbon™	Freeform Ribbon™
Fiber Size	250 µm, 200 µm	250 µm, 200 µm - Freeform Ribbon™ Only	250 µm, 200 µm	250 µm, 200 µm
Fiber Type	SM	SM	SM	SM
Learn More About Product(s)	View Products	View Products	View Product Page	View Products

*Available fiber counts on product cut sheet

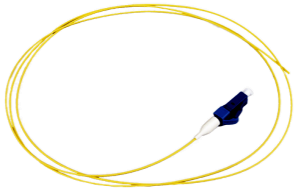
Connector

	SINGLE-FIBER CONNECTORS			
	Lynx-CustomFit™ - LC	Lynx-CustomFit™ - SC	Lynx-CustomFit™ - ST	Lynx-CustomFit™ - FC
Part Number	See Part Number Configurator			
Fiber Capacity per Connector	Single Fiber	Single Fiber	Single Fiber	Single Fiber
250 µm Compatible	✓	✓	✓	✓
200 µm Compatible	N/A	N/A	N/A	N/A
Multi-Mode	✓	✓	✓	✓
Single-Mode	✓	✓	✓	✓
APC	✓	✓	✗	✓
UPC	✓	✓	✓	✓
Pinned (Male/Female)	✗	✗	✗	✗
Splice-On	✓	✓	✓	✓
Simplex	✓	✓	✓	✓
Duplex - Clip	✓	✓	✗	✗
Duplex - Zipcord	✓	✓	✓	✓
ABF Suitable	✓	✓	✓	✓
Hyperscale/ AI DC Suitable	✓	N/A	N/A	N/A
DC/Central Office Suitable	✓	N/A	N/A	N/A
Learn More About Product(s)	View Product Page	View Product Page	View Product Page	View Product Page



	MULTI-FIBER CONNECTORS		
	Lynx-CustomFit™ - MPO	**MMC Connector**	**Expanded Beam Optical Interconnect (EBO)**
Part Number		See Part Number Configurator	
Fiber Capacity per Connector	8, 12	12, 16, 24, 32	12, 16
250 µm Compatible	✓	✓	✓
200 µm Compatible	✗	✓	N/A
Multi-Mode	✓	✓	✓
Single-Mode	✓	✓	✓
APC	✓	✓	N/A
UPC	✓	✗	N/A
Pinned (Male/Female)	✓	✓	✗
Splice-On	✓	✗	✗
Simplex	N/A	N/A	N/A
Duplex - Clip	N/A	N/A	N/A
Duplex - Zipcord	N/A	N/A	N/A
ABF Suitable	✗	✗	✗
Hyperscale/ AI DC Suitable	✓	✓	✓
DC/Central Office Suitable	✓	✓	✓
Learn More About Product(s)	View Cut Sheet	View Product Page	Under Construction

Cable Assemblies and Fanout Cables



	CABLE ASSEMBLIES	
	Single-Fiber Cable	**Multi-Fiber Cable with Single-Fiber Connectors**
Part Number	See Cable Assembly Configurator	
Fiber Type	SM & MM	SM & MM
Fiber Count	1F	2F - 864F Standard
Cable Design	Loose Buffer (250 µm) Tight Buffer (900 µm)	Pliable Ribbon (200 µm, 250 µm) Flat Ribbon (200 µm, 250 µm) Loose Buffer (200 µm, 250 µm) Tight Buffer (900 µm)
Connector End A	LC (UPC/APC) SC (UPC/APC) FC (UPC/APC) ST (UPC) Bare End	LC (UPC/APC) LC Uniboot SC (UPC/APC) FC (UPC/APC) ST (UPC) Bare End
Connector End B	LC (UPC/APC) SC (UPC/APC) FC (UPC/APC) ST (UPC) Bare End	LC (UPC/APC) LC Uniboot SC (UPC/APC) FC (UPC/APC) ST (UPC) Bare End
Jacket Type	OSP, Riser (I, O, I/O), LSZH, Riser LSZH, I/O LSZH, Plenum, B1ca, B2ca, Cca, Dca	OSP, Riser (I, O, I/O), LSZH, Riser LSZH, I/O LSZH, Plenum, I/O Plenum, B1ca, B2ca, Cca, Dca
Armor Type	No Armor, Interlocking Armor, Micro Armor	No Armor, Interlocking Armor, Micro Armor
ABF Suitable	✓	✓
Hyperscale/ AI DC Suitable	✓	✓
DC/Central Office Suitable	✓	✓
Mass Transit Suitable	✓	✓
Max Assembly Length	Length to Order	Length to Order
Breakout Length	N/A	No Stagger, Stagger, Multiple Length Options
Learn More About Product(s)	View Product Page	View Product Page

	CABLE ASSEMBLIES	FANOUT CABLE
	Multi-Fiber Cable with Multi-Fiber Connectors	**12-Fiber Ribbon Pigtail Fanout Kits**
Part Number	See Cable Assembly Configurator	See Ordering Information
Fiber Type	SM & MM	SM & MM
Fiber Count	2F - 864F Standard	12F Ribbon
Cable Design	Pliable Ribbon (200 µm, 250 µm) Flat Ribbon (200 µm, 250 µm) Loose Buffer (200 µm, 250 µm) Tight Buffer (900 µm)	Furcation (900 µm)
Connector End A	MPO/MTP/MMC (Male/Female) LC Duplex/MDC (UPC/APC) EBO	LC (UPC/APC) SC (UPC/APC) ST (UPC)
Connector End B	MPO/MTP/MMC (Male/Female) LC Duplex/MDC (UPC/APC) EBO	N/A: Bare End
Jacket Type	OSP, Riser (I, O, I/O), LSZH, Riser LSZH, I/O LSZH, Plenum, I/O Plenum, B1ca, B2ca, Cca, Dca	N/A
Armor Type	No Armor Interlocking Armor Micro Armor	N/A
ABF Suitable	✓	✓
Hyperscale/ AI DC Suitable	✓	✓
DC/Central Office Suitable	✓	✓
Mass Transit Suitable	✓	✓
Max Assembly Length	Length to Order	3 Meters (unless specified otherwise)
Breakout Length	No Stagger, Stagger, Multiple Length Options	0.7 Meter - No Stagger
Learn More About Product(s)	View Product Page	View Product Page

Cassette

	MPO CASSETTES	
	PrecisionFlex® LGX MPO Cassette	**PrecisionFlex® High-Density MPO-LC Cassette**
Part Number	FT 11 - MP 22 3 C 444 - L 5 6 7 - 8 See Ordering Information	PFCST-xx-1X12MPOM-LC-S
Fiber Type	SM & MM	SM & MM
Pre-Terminated	✓	✓
Fiber Count	8F, 12F, 24F	12F
Max LC Count per RU	72 LC	144 LC
Entry	MPO	MPO
Faceplate: Ports	8, 12, 24	12
Faceplate: Connector Type	LC, SC, FC, ST	LC
ABF Suitable	✓ Limited Applications	✗
Hyperscale/ AI DC Suitable	✓	✓
DC/Central Office Suitable	✓	✓ Limited Applications
Mass Transit Suitable	✓ Limited Applications	✗
Corning CCH Compatible	✓ Requires Adapter Panel	✗
Learn More About Product(s)	View Product Page	View Product Page

	SPLICE CASSETTE
	PrecisionFlex® FOX Splice Cassette
Part Number	FT 11 - F 22 33 444 555 6666 See Ordering Information
Fiber Type	SM & MM
Fiber Size	12ct Ribbon: 900 µm Coated Fiber
Fiber Count	6F, 12F, 24F
Max LC Count per RU	72 LC
Entry	Splice
Faceplate: Ports	6, 12, 24
Faceplate: Connector Type	LC, SC, ST
ABF Suitable	✓
Hyperscale/ AI DC Suitable	✓
DC/Central Office Suitable	✓
Mass Transit Suitable	✓
Corning CCH Compatible	✓ Requires Adapter Panel
Learn More About Product(s)	View Product Page

Enclosure

	RACK-MOUNT ENCLOSURE	WALL-MOUNT ENCLOSURE
	3RU	12T
Part Number	FSPRM-03	FSPWM-12T-LCE, FSPWM-12T
Fiber Capacity	1,728F	2,304F
Cable Entry Ports	8	8: FSPWM-12T-LCE, 16: FSPWM-12T
Termination Style	Splice Tray	Splice Tray
Tray Capacity	4 x 432F	12 x 192F
LGX Cassette/Panel Capacity	N/A	N/A
Max Port	N/A	N/A
Port Type	N/A	N/A
Mount	Rack	Wall
ABF Suitable	✓ Limited Applications	✓
Hyperscale/ AI DC Suitable	✓	✓
DC/Central Office Suitable	✓	✓
Learn More About Product(s)	View Product Page	View Product Page

	WALL-MOUNT ENCLOSURE	
	8L	**4L-2D**
Part Number	FTWM-08L	FTWM-04L-2D
Fiber Capacity	192F	144F Splice Tray 96F Cassette & Interconnect
Cable Entry Ports	4	4
Termination Style	Splice Tray PrecisionFlex® FOX Splice Cassettes PrecisionFlex® LGX MPO Cassettes Interconnect Panels/Bulkheads	Splice Tray PrecisionFlex® FOX Splice Cassettes PrecisionFlex® LGX MPO Cassettes Interconnect Panels/Bulkheads
Tray Capacity	5	4 x 24F
LGX Cassette/Panel Capacity	8	4
Max Port	192	96
Port Type	LC, SC, ST, FC LGX Interconnect Panels	LC, SC, ST, FC LGX Interconnect Panels
Mount	Wall	Wall
ABF Suitable	✓	✓
Hyperscale/ AI DC Suitable	✓	✓ Limited Applications
DC/Central Office Suitable	✓	✓
Learn More About Product(s)	View Product Page	View Product Page

	WALL-MOUNT ENCLOSURE		
	4L	**2L-2D**	**1L**
Part Number	FTWM-04L	FTWM-02L-2D	FTWM-01L
Fiber Capacity	144F Splice Tray 96F Cassette & Interconnect	144F Splice Tray 48F Cassette & Interconnect	48F
Cable Entry Ports	4	4	3
Termination Style	Splice Tray PrecisionFlex® FOX Splice Cassettes PrecisionFlex® LGX MPO Cassettes Interconnect Panels/ Bulkheads	Splice Tray PrecisionFlex® FOX Splice Cassettes PrecisionFlex® LGX MPO Cassettes Interconnect Panels/ Bulkheads	Splice Chip PrecisionFlex® FOX Splice Cassettes PrecisionFlex® LGX MPO Cassettes Interconnect Panels/ Bulkheads
Tray Capacity	4 x 24F	N/A	N/A
LGX Cassette/ Panel Capacity	4	2	1
Max Port	96	48	24
Port Type	LC, SC, ST, FC LGX Interconnect Panels	LC	LC, SC, ST, FC LGX Interconnect Panels
Mount	Wall	Wall	Wall
ABF Suitable	✓	✓	✓
Hyperscale/ AI DC Suitable	✓ Limited Applications	✓ Limited Applications	✓ Limited Applications
DC/Central Office Suitable	✓	✓	✓ Limited Applications
Learn More About Product(s)	View Product Page	View Product Page	View Product Page

	TRANSIT ENCLOSURE	
	NEMA 4X/IP66 Splice Transit Enclosure	**Pre-Terminated LC/APC Patching Transit Enclosure**
Part Number	FTC-IP66-AL-1728	FT-IP66-9144-RLA
Fiber Capacity	1,728F	144F
Cable Entry Ports	Per User Requirement	Per User Requirement
Termination Style	Splice Tray	Pre-Terminated
Tray Capacity	12 x 144F	1
LGX Cassette/ Panel Capacity	N/A	12
Max Port	N/A	144
Port Type	N/A	LC
Mount	Wall, Ceiling	Wall, Ceiling
ABF Suitable	✕	✕
Hyperscale/ AI DC Suitable	✕	✕
DC/Central Office Suitable	✕	✕
Mass Transit NEMA 4x/IP66 Suitable	✓	✓
Learn More About Product(s)	View Product Page	View Product Page

Entrance Cabinet

	ULTRA HYPERSCALE EXCHANGE (U-HSX)	MODULAR HYPERSCALE EXCHANGE (M-HSX)	HYPERSCALE EXCHANGE (HSX)
Part Number	FTHFC-41K-SK1 (Cabinet & Starter Kit)	HDMEC-MX-STV001 (Cabinet & Starter Kit)	HDFOC-X-FRM-STC (Cabinet)
Fiber Capacity	41,472	20,736	20,736
Dimensions (W x H x D)	56 x 72 x 20 in (1,422 x 1,829 x 508 mm)	87 x 33 x 17 in (2,226 x 839 x 432 mm)	84.3 x 24 x 12 in (2,140 x 610 x 306 mm)
Cable Entry Areas	2 = Top; 2 = Bottom 6 = Left; 6 = Right	2 = Top; 2 = Bottom	2 = Top
Tray Capacity	48 x 864F	48 x 432F, 72 x 288F	72 x 192F, 72 x 288F
Max Port	N/A	2,592	N/A
Port Type	N/A	LC	N/A
Mount	Floor/Wall	Floor	Floor
ABF Suitable	✕	✕	✕
Hyperscale/ AI DC Suitable	✓	✓	✓
DC/Central Office Suitable	✓	✓	✓
Mass Transit Suitable	✓ Limited Applications	✓ Limited Applications	✓ Limited Applications
Learn More About Product(s)	View Product Page	View Product Page	View Product Page

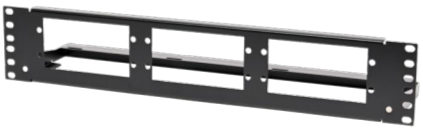
	VERTICAL HYPERSCALE EXCHANGE (V-HSX)	VERTICAL HYPERSCALE EXCHANGE (3K-V-HSX)
Part Number	FTHFC-10K-V-SK1 (Cabinet & Starter Kit)	FTHFC-3K-V-SK1 (Cabinet & Starter Kit)
Fiber Capacity	10,368	3,456
Dimensions (W x H x D)	32 x 42.1 x 14.8 in (813 x 1,070 x 377 mm)	32 x 21.5 x 15 in (813 x 546 x 381 mm)
Cable Entry Areas	2 = Top; 2 = Bottom; 2 = Left; 2 = Right	2 = Top; 2 = Bottom; 1 = Left; 1 = Right
Tray Capacity	24 x 432F	8 x 432F
Max Port	N/A	N/A
Port Type	N/A	N/A
Mount	Wall	Wall
ABF Suitable	✕	✕
Hyperscale/ AI DC Suitable	✓	✓
DC/Central Office Suitable	✓	✓
Mass Transit Suitable	✓ Limited Applications	✓ Limited Applications
Learn More About Product(s)	View Product Page	View Product Page

Interconnect/Bulkhead

	LGX INTERCONNECT PANEL	LGX INTERCONNECT PANEL (SPECIALTY)	HD LC QUAD INTERCONNECT PANEL
Part Number	Configurator Needed	Configurator Needed	FTLCx-SM24-SEL
Fiber Type	SM & MM (wide range of colors)	SM & MM	SM
Faceplate: Ports	Standard: 12, 24 (LC only) Custom: 4, 6, 16	MPO: 3, 6, 12 MTRJ: 12	24
Faceplate: Connector Type	LC, SC, FC, ST	MPO, MTRJ	LC
ABF Suitable	✓	✓ Limited Applications	✓ Limited Applications
Hyperscale/ AI DC Suitable	✓	✓	✓
DC/Central Office Suitable	✓	✓	✓
Mass Transit Suitable	✓	✓ Limited Applications	✓ Limited Applications
Corning CCH Compatible	✓ Requires Adapter Panel	✓ Requires Adapter Panel	N/A
Learn More About Product(s)	View Product Page	View Product Page	View Cut Sheet

Panels

	FLEX PATCH PANEL	PRECISIONFLEX® PATCH PANEL
Part Number	FT0xRUxxxx	FT0xLxxxx
Sizes	1RU, 2RU, 3RU, 4RU	1RU, 2RU, 3RU, 4RU
Panel Module Capacity	3, 6, 9, 12	3, 6, 9, 12
Port Capacity (LC)	72, 144, 216, 288	72, 144, 216, 288
Panel Style	Slide	Fixed/Slide
Termination Style	Splice Tray PrecisionFlex® FOX Splice Cassettes PrecisionFlex® LGX MPO Cassettes Interconnect Panels/Bulkheads	Splice Tray PrecisionFlex® FOX Splice Cassettes PrecisionFlex® LGX MPO Cassettes Interconnect Panels/Bulkheads
HD Capable	✗	✓ Select Pre-Terminated or -Stubbed
Pre-Terminated	✓	✓
ABF Suitable	✓ Recommended	✓
Hyperscale/ AI DC Suitable	✓	✓
DC/Central Office Suitable	✓	✓
Compact Design	✗	✗
Front Cable Management	✓	✓
19-Inch Rack	✓	✓
23-Inch Rack	✓	✓ Requires Adapter Brackets
Learn More About Product(s)	View Product Page	View Product Page



	LGX COMPACT PATCH PANEL	FLUSH-MOUNT PANEL
Part Number	FT01L03-LSA	FT02FMFP-6LGX-xxxxx
Sizes	1RU	2RU
Panel Module Capacity	3	6
Port Capacity (LC)	72	144
Panel Style	Fixed	Fixed
Termination Style	PrecisionFlex® FOX Splice Cassettes PrecisionFlex® LGX MPO Cassettes Interconnect Panels/Bulkheads	PrecisionFlex® FOX Splice Cassettes PrecisionFlex® LGX MPO Cassettes Interconnect Panels/Bulkheads
HD Capable	✗	✗
Pre-Terminated	✗	✗
ABF Suitable	✓	✓
Hyperscale/AI DC Suitable	✓	✓
DC/Central Office Suitable	✓	✓
Compact Design	✓	✓
Front Cable Management	✓	✗
19-Inch Rack	✓	✓
23-Inch Rack	✓ Requires Adapter Brackets	✓ Requires Adapter Brackets
Learn More About Product(s)	View Product Page	View Product Page

	HIGH-DENSITY PANELS	PRECISIONFLEX® HIGH-DENSITY PANEL
Part Number	FT02SEL12-x	PFCST-1U-x-xxx-BK
Sizes	2RU	1RU
Panel Module Capacity	12	12
Port Capacity (LC)	288	144
Panel Style	Fixed	Slide
Termination Style	LC Quad Interconnect Panels/Bulkheads	MPO-LC Cassettes
HD Capable	✓	✓
Pre-Terminated	✗	✗
ABF Suitable	✗	✗
Hyperscale/ AI DC Suitable	✓	✓
DC/Central Office Suitable	✓	✓
Compact Design	✓	✓
Front Cable Management	✓	✓
19-Inch Rack	✓	✓
23-Inch Rack	✓ Requires Adapter Brackets	✓ Requires Adapter Brackets
Learn More About Product(s)	View Product Page	View Product Page

Fusion Splicer

	T-72C+	T502S
Technology Feature	NanoTune™ Enhanced splice experience	NanoTune™ Enhanced splice experience
Applicable Fiber Count	Single	Single
Application	High-End Backbone Network	FTTx Network
Alignment Method	HD Core	Active Clad
Splice Loss (Typical)	0.01 dB on SM Fiber	0.03 dB on SM Fiber
Splice Time (Typical)	5 Seconds	6 Seconds
Fiber Identification	✓	✓
Heaters	2	1
Heating Time (Typical)	8 Seconds	12 Seconds
Splice and Heat Cycles (Typical)	320	250
Chargeable While Working	✓	✓
Weight with Battery	2.2 kg	1.2 kg
Monitor	5-in Color Touch Screen	4.3-in Color Touch Screen
Data Storage	Splicer & SD Card	Splicer & SD Card
Electrode Life - Arc Discharges	6000	6000
Standard Warranty	3 Years	3 Years
Learn More About Product(s)	View Cut Sheet	View Cut Sheet

	T-72M12+	T-72M16+
Technology Feature	NanoTune™ Enhanced splice experience	NanoTune™ Enhanced splice experience
Applicable Fiber Count	1c to 12c	1c to 16c
Application	Ribbon Cable Network in Backbone, FTTx and Data Center	Ribbon Cable Network in Backbone, FTTx and Data Center
Alignment Method	Fixed V-Groove	Fixed V-Groove
Splice Loss (Typical)	0.05 dB on SM Fiber	0.05 dB on SM Fiber
Splice Time (Typical)	11 Seconds	11 Seconds
Fiber Identification	✕	✕
Heaters	2	2
Heating Time (Typical)	28 Seconds	28 Seconds
Splice and Heat Cycles (Typical)	180	180
Chargeable While Working	✓	✓
Weight with Battery	2.1 kg	2.1 kg
Monitor	5-in Color Touch Screen	5-in Color Touch Screen
Data Storage	Splicer & SD Card	Splicer & SD Card
Electrode Life - Arc Discharges	1500	1500
Standard Warranty	3 Years	3 Years
Learn More About Product(s)	View Cut Sheet	View Cut Sheet

Resources

Authorized Distributors for Fusion Splicers

Ensure timely deployments and MACs for your network by connecting with our national and regional distributor partners.

Technical Support

Our factory-trained technicians offer repair services on Sumitomo fusion splicers, as well as support, including user training and development of special splice programmes.

For technical enquiries or information about our service contracts for your Sumitomo Electric splicers, you can reach us at Tel: +44 (0) 20 8953 8118 or Contact Us.

Resources

Resource Center
Access up-to-date technical information, specifications, how-to videos, tutorials, and the latest news about how SEL's Next Generation Thinking™ is addressing the industry's challenges.

Training

SEL offers a range of training courses taught by industry experts, available either in person or online. Our courses provide new product training, post purchase support, continuing education, workforce development, and more. Contact our customer service team for more information.

Connect With Us

Customer Service
We're here to assist you. Whether you have questions, need a quote, or seek a solution to a particular challenge, SEL's customer service team is ready to help. Our aim is to provide the best service in the industry.

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Tools

Cable Assembly Configurator

Trouble configuring cable assemblies? Come see how easy it can be to customize your next assembly. SEL has long had one of the industry's widest selections of cable assemblies: patch cords, jumpers, trunks, and interconnects as well as the often-elusive exact-length cable assemblies.

SumiMap

Attain network clarity with SumiMap. This innovative platform is a comprehensive network infrastructure management tool that merges CAD software with a database, offering visual documentation of assets and connections. SumiMap supports CAD.7, AutoCAD, and CAD systems, along with Oracle and MSSQL databases.

SUMITOMO ELECTRIC EUROPE

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