System Selection Guide for Cloud Data Centers

COMMSCOPE®

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Click here for a video introduction to this guide, including best practices on how to use it.

Demands on hyperscale and cloud data centers are compounding.

Data center managers must manage massive amounts of new data and machine-to-machine communications while maintaining ultra-reliable, low-latency service level agreements (SLAs). As data requirements skyrocket, providers are forced to deploy and scale faster than ever.

In this fast-moving, demanding environment, having the right infrastructure and deployment partner—with the strength, speed and experience to keep you ahead of the changes—can be the difference between staying ahead or falling behind. That's why hyperscale and cloud providers rely on CommScope for their connectivity infrastructure.

In this guide you will find the resources you need to begin designing an efficient and effective data center. Our recommended globally applicable designs supports:

- Leaf-spine architectures
- Application Migration and Growth
- High density to save white space
- Easily scalable options

What does Ultra Low Loss mean to you?

Throughout this guide you will find a variety of options for cabling implementation. In common, across each pre-terminated design, is CommScope Ultra Low Loss (ULL) connector end-face and system performance. Regardless of your organization's data center needs, ULL assures the ability to migrate to higher data rate applications as needed. This level of performance provides longer distance support, additional connection flexibility, or both, in multimode OM5 and OM4, and singlemode. As your data center speeds grow beyond 10G to 100G, 400G and beyond, applications are more sensitive and fiber connector performance is CRITICAL. CommScope ULL delivers!

CommScope's ULL High Speed Migration portfolio uses industry standard Method B polarity, the simplest method for migration between duplex and parallel fiber cabling applications, along with CommScope Method B Enhanced polarity within the modules to simplify design, installation and testing further.

ULL – Ultra Low Loss Features

Method B Enhanced modules

- 24, 12, or 8 fiber MPO rear connectors with duplex or MPO front
- No mixing or flipping of components needed to achieve polarity (Tx-Rx)
- Same module on each end of link – simplifies bill of material and designs
- Patch panel options to provide manageable high density for your environment

Pinned (male) MPO trunk cables

- Enable unpinned (female-female) patch cords throughout
- Simplifies installation and connections to active equipment

Singlemode and multimode cable options

- Support multi-wavelength and traditional applications
- Flexibility for your network architecture, TCO model, and network electronics choices

Multi-Media Resources

- **Ultra low-loss fiber connectivity solutions: the best way to support higher speeds in your DC**
- **CommScope Method B Enhanced fiber polarity simplifies High Speed Migration**
- **High Speed Migration – Bandwidth without boundaries**
- **SYSTIMAX High-and ultra-high density fiber panels that scale easily, deploy quickly and manage**
- **SYSTIMAX Enhanced High-Density Ultra-Low Loss Fiber Solutions**
- **FACT High Density Optical Distribution Frame**

Brochure

- **Data Center High Speed Migration: Infrastructure issues, trends, drivers and recommendations**

System Selection Pre-Term Using Channel Configurations

Select a part for more information.

Fiber Basic

- 48 ports LC-D or 32 ports MPO
- No cable management
- Basic labeling

G2 Module

MPO Trunk or Array Trunk

G2 Module

Agile Panel

Agile Panel

Patch Cord

Patch Cord

Fiber Enhanced HD

- 72 ports LC-D or 72 ports MPO
- Front cable management
- Labeling option (printer support)
- Sliding tray for better cable modules access
- Panels available in 1, 2 and 4RU

EHD Module

MPO Trunk or Array Trunk

EHD Module

EHD Panel

EHD Panel

Patch Cord

Patch Cord

Fiber HD

- 48 ports LC-D or 32 ports MPO
- Front cable management
- Labeling option (printer support)
- Sliding tray for easier cable/modules access
- Panels available in 1, 2 and 4RU

G2 Module

MPO Trunk or Array Trunk

G2 Module

HD Panel

HD Panel

Patch Cord

Patch Cord

Mixed Media Basic

- For mixed copper and fiber installations
- Fiber 48 ports LC-D or 32 ports MPO; Copper: 24 RJ45 ports
- No cable management
- Basic labeling
- Panels available in 1RU

G2 Module

MPO Trunk or Array Trunk

G2 Module

Evolve Panel

Evolve Panel

Patch Cord

Pre-term Cat6A Copper

Pre-term Cat6A Copper

Patch Cord

Review System Selection Fiber Pre-terminated 19" here.

Fiber Basic | Fiber HD | Fiber Enhanced HD | Mixed Media Basic

Fits to	Basic Fiber Panel	Fits to Reference Designs				RU	Description Code	Part Number
	AGILE 1U fixed panel, accepts (4) G2 modules or adapter packs providing up to 48 duplex LC or 32 MPO ports					1	AGL-1U-FX	760241517
Fits to	**Evolved Fiber Panels**	**Fits to Reference Designs**				**RU**	**Description Code**	**Part Number**
	High Density 1U modular cassette sliding Panel, accepts (4) G2 modules or adapter packs, providing up to 48 duplex LC ports, or up to 32 MPO ports					1	HD-1U	760209940
	High Density 2U modular cassette sliding Panel, accepts (8) InstaPATCH® 360 modules or MPO panels, providing up to 96 duplex LC ports or up to 64 MPO ports					2	HD-2U	760209957
Fits to	**Enhanced HD Fiber Panels**	**Fits to Reference Designs**				**RU**	**Description Code**	**Part Number**
	EHD 1U sliding tray fiber panel, accepts (6) EHD ULL modules, splice cassettes or MPO panels, providing up to 72 duplex LC ports or up to 72 MPO ports					1	EHD-1U	EHD-1U
	EHD 2U sliding tray fiber panel, accepts (12) EHD ULL modules, splice cassettes or MPO panels, providing up to 144 duplex LC ports or up to 144 MPO ports					2	EHD-2U	EHD-2U
	EHD 4U sliding tray fiber panel, accepts (24) EHD ULL modules, splice cassettes or MPO panels, providing up to 288 duplex LC ports or up to 288 MPO ports					4	EHD-4U	EHD-4U
Fits to	**Accessories for Evolved and Enhanced HD Patch Cord/Array Trunk Fitting Kit**							**Part Number**
	Patch cord/array trunk fitting kit with 12 cable glands							760242678
	Trunk fitting kit with 12 cable glands							760242679
Fits to	**Mixed Media Panels**	**Fits to Reference Designs**				**Copper Tech**	**Description Code**	**Part Number**
	SYSTIMAX 360™ GigaSPEED X10D® and GigaSPEED XL® Evolve 1U U/UTP Panel Kit					U/UTP	360-E-KIT-1U	760155739
	SYSTIMAX 360™ GigaSPEED X10D® Evolve 1U F/UTP Panel Kit					F/UTP	360-IPR-MFTP-E-HD6B-1U-24	760150144
Fits to	**Mixed Media Panel Accessories**						**Description Code**	**Part Number**
	SYSTIMAX 360™ 1100 EVOLVE G2 BEZEL (Cool Gray)						360-1100-E-FB-4PK	760175877
	SYSTIMAX 360™ 1100 Evolve Fiber Cable Management						361 1100-E-FCM	760175919
	SYSTIMAX 360™ 1100 EVOLVE G2 BEZEL (Blank)						360-1100-E-BB	760165191
Fits to	**EHD Modules**		**Connector**	**Fiber**	**Module**		**Description Code**	**Part Number**
	EHD ULL MPO-24 distribution module, 24LC to 1x24f MPOs unpinned, OM4, dust plugs		MPO24	OM4	Distribution		EHD24-DM-24LC-LS-B-ULL	760237999
	EHD ULL Multimode OM5 Wideband MPO-24 distribution module, 24LC to 1x24f MPOs unpinned, dust plugs		MPO24	OM5	Distribution		EHD24-DM-24LC-WB-B-ULL	760238000
	EHD ULL MPO-12 distribution module, 24LC to 2x12f MPOs unpinned, singlemode, dust plugs		MPO12	OS2	Distribution		EHD12-DM-24LC-SM-B-ULL	760237992
	EHD MPO Adapter Pack, 12 x MPO		Universal MPO	Universal	MPO Adapter Pack		EHD-DP-12MPO-ALL-B	760235622
	EHD ULL MPO-12 distribution module, 24LC to 2x12f MPOs unpinned, OM4, dust plugs		MPO12	OM4	Distribution		EHD12-DM-24LC-LS-B-ULL	760237993
	EHD ULL MPO-12 distribution module, 24LC to 2x12f MPOs unpinned, OM5 Wideband, dust plugs		MPO12	OM5	Distribution		EHD12-DM-24LC-WB-B-ULL	760237994
	EHD 12 port LC adapter pack, single mode, UPC duplex		LC	OS2	LC Adapter Pack		EHD-DP-12LC-SM	760238904
	EHD 12 port LC adapter pack, OM4, UPC duplex		LC	OM4	LC Adapter Pack		EHD-DP-12LC-LS	760238903
	EHD 12 port LC adapter pack, OM5 UPC duplex		LC	OM5	LC Adapter Pack		EHD-DP-12LC-WB	760238902

Review System Selection Fiber Pre-terminated 19" here.

Fiber Basic | Fiber HD | Fiber Enhanced HD | Mixed Media Basic

Fits to	G2 Fiber Modules/Adapter Packs		Connector	Fiber	Module	Description Code	Part Number
	G2 ULL MPO-24 distribution module, 24LC to 1x24f MPO unpinned, OM5 Wideband, internal shutter		MPO24	OM5	Distribution	DM24-24LC-WB-ULL	760236113
	G2 ULL MPO-24 distribution module, 24LC to 1x24f MPO unpinned, OM4 internal shutter		MPO24	OM4	Distribution	DM24-24LC-LS-ULL	760236112
	G2 ULL 1x3 Multimode OM4 Conversion Module, (1) MPO-24 unpinned ports rear, (3) MPO-8 pinned front		MPO24	OM4	Conversion	CM24-1X3-LS-ULL	760237222
	G2 ULL 1x3 Multimode OM5 WideBand Conversion Module, (1) MPO-24 unpinned ports rear, (3) MPO-8 pinned front		MPO24	OM5	Conversion	CM24-1x3-WB-ULL	760237223
	G2 ULL MPO-12 distribution module, 24LC to 2x12f MPO unpinned, OM5 Wideband, internal shutter		MPO12	OM5	Distribution	DM12-24LC-WB-ULL	760236111
	G2 ULL MPO-12 distribution module, 24LC to 2x12f MPO unpinned, OM4 internal shutter		MPO12	OM4	Distribution	DM12-24LC-LS-ULL	760236110
	G2 ULL 2x3 LazrSPEED OM4 Conversion Module, (2) MPO-12 unpinned ports rear, (3) MPO-8 pinned front		MPO12	OM4	Conversion	CM12-2x3-LS-ULL	760237217
	G2 ULL 2x3 LazrSPEED OM5 Conversion Module, (2) MPO-12 unpinned ports rear, (3) MPO-8 pinned front		MPO12	OM5	Conversion	CM12-2x3-WB-ULL	760237218
	G2 ULL MPO-12 distribution module, 24LC to 2x12f MPOs unpinned, singlemode internal shutter		MPO12	OS2	Distribution	DM12-24LC-SM-ULL	760238083
	G2 ULL 2x3 Singlemode Conversion Module, (2) MPO-12 unpinned ports rear, (3) MPO-8 pinned front		MPO12	OS2	Conversion	CM12-2X3-SM-ULL	760237216
	G2 Distribution Adapter Pack, 360DP-8MPO, 8 x MPO		N/A	Universal	MPO Adapter Pack	360DP-8MPO	760107524
	G2 Distribution Adapter Pack 24 LC with internal shutters, Multimode OM4 Aqua		N/A	OM4	LC Adapter Pack	360DPis-24LC-LS	760216754
	G2 Distribution Adapter Pack 24 LC with internal shutters, Multimode OM5 Lime Green		N/A	OM5	LC Adapter Pack	360DPis-24LC-WB	760236041
	G2 Distribution Adapter Pack 24 LC with internal shutters, Singlemode Blue		N/A	OS2	LC Adapter Pack	360DPis-24LC-SM	760216762
	G2 blank adapters, 4 pcs		N/A	N/A	Blank Panel	360G2-MOD-BLANK-4PK	760109462

Fits to	Cable Management	Fits to Reference Designs				Description Code	Part Number
	Overlength storage, 4U						1671711-1
	Horizontal cable through, 2U, single sided					HKT-19-SS-2U	760072959
	Horizontal cable through, 3U, single sided					HKT-19-SS-3U	760072967
	Cable Manager 1U						1671495-1
	Cable Manager 2U						1671495-2
	Cable Manager 4U						1671495-4
	Cable Manager 6U						1671495-6
	Cable Manager 15U						1-1671495-5
	Filler/Blank Panel, 1U x 19", Solid, Black					FPANEL-19-1U	760162065
	1U Patchcord Management					HCM-19-SS-1U-EMEA	760038240

Review System Selection Fiber Pre-terminated 19″ here.

All cable assemblies on this page fit to:

Fiber Basic | Fiber HD | Fiber Enhanced HD | Mixed Media Basic

SYSTIMAX ULL Pre-terminated Trunk Cables

- 12- and 24-fiber MPO connector-based modules available in LazrSPEED 550 OM4 and LazrSPEED OM5 Wideband multimode fiber solutions
- 12-fiber MPO connector-based modules available in TeraSPEED singlemode fiber solutions
- Factory-terminated and tested trunk cables provide superior quality and performance for field connections
- Reliable transmit-to-receive connectivity using Method B Enhanced polarity maintenance maximizes administrative convenience
- Simplified reconfiguration for moves, adds and changes (MACs)
- Easy upgrade path to parallel transmission and associated applications, and increased value of existing infrastructure
- SYSTIMAX ULL trunks are provisioned with pins to interface with G2 and EHD ULL modules (without pins)

SYSTIMAX ULL MPO-12 Trunk Cables

1	2	3	4 5	6 7	8	9 10 11	12	13	14-16
U	J	X	M X	M X	A	K - M	A	F	010
Construction type U Ultra-Low Loss	**Family** G Trunk, Plenum J Trunk, LSZH/Riser	**Fiber type** G TeraSPEED singlemode (A2) X LazrSPEED 550 multimode V LazrSPEED OM5 WB multimode	**Termination end A** MX MPO (male)	**Termination end B** MX MPO (male)	**Construction** A 12 Fiber PmP	**Fiber count** D 12-fiber F 24-fiber H 48-fiber K 72-fiber L 96-fiber M 144-fiber	**Color** M Aqua N Lime green J Yellow LazrSPEED OM4 standard is aqua LazrSPEED OM5 standard is lime green TeraSPEED singlemode standard is yellow	**Options** A No gland B With gland C With pulling eye C for cabling between HD & EHD panels A for cabling between AGL panels and between AGL panels and EHD/HD panels Use accessory gland for patch cords in case gland is required on one side only	**Unit of measure** F Feet M Meter	**Length** 010-999 Feet 003-305 Meter

SYSTIMAX ULL MPO-24 Trunk Cables

1	2	3	4 5	6 7	8	9 10 11	12	13	14-16
U	G	V	2 X	2 X	B	M - N	C	F	010
Construction type U Ultra-Low Loss	**Family** G Trunk, Plenum J Trunk, LSZH/Riser	**Fiber type** X LazrSPEED 550 multimode V LazrSPEED OM5 WB multimode	**Termination end A** 2X MPO (male)	**Termination end B** 2X MPO (male)	**Construction** B 24-fiber PmP	**Fiber count** F 24-fiber H 48-fiber K 72-fiber L 96-fiber M 144-fiber	**Color** M Aqua N Lime green LazrSPEED OM4 standard is aqua LazrSPEED OM5 standard is lime green	**Options** A No gland B With gland C With pulling eye C for cabling between HD & EHD panels A for cabling between AGL panels and between AGL panels and EHD/HD panels Use accessory gland for patch cords in case gland is required on one side only	**Unit of measure** F Feet M Meter	**Length** 010-999 Feet 003-305 Meter

Note: for MPO-8 products and other trunk configurations please contact your CommScope sales representative.

Review System Selection Fiber Pre-terminated 19″ here.

All cable assemblies on this page fit to:

Fiber Basic | Fiber HD | Fiber Enhanced HD | Mixed Media Basic

SYSTIMAX ULL MPO Array Trunks

12- and 24-fiber MPO connector-based modular design enables simple connections

Array trunks are constructed with 550 OM4 and OM5 Wideband and singlemode fibers

Factory-terminated and tested for instant field connections giving guaranteed quality and performance

MPO-MPO array trunks are constructed with 3.0 mm PmP array cords

SYSTIMAX ULL MPO Array Trunks

1	2	3	4 5	6 7	8	9 10 11	12	13	14-16
U	Q	X	M P	M P	G	D - M	E	F	010
Construction type U Ultra-Low Loss	**Cable family** Q Plenum array R LSZH array	**Fiber type** G TeraSPEED singlemode (A2) X LazrSPEED 550 multimode V LazrSPEED OM5 WB multimode	**Connector 1** MX 12f MPO (male) 2X 24f MPO (male) *2P, 2X and 2C only available for multimode fiber	**Connector 2** MX 12f MPO (male) 2X 24f MPO (male)	**Cordage size** G 12-fiber PmP Array Cord H 24-fiber PmP Array Cord *24-fiber PmP cable not available for TeraSPEED singlemode	**Fiber count** D 12-fiber F 24-fiber	**Color** M Aqua N Lime green J Yellow LazrSPEED OM4 standard is aqua LazrSPEED OM5 standard is lime green TeraSPEED singlemode standard is yellow	**Breakout length** D 12 in breakout, no gland E 24 in breakout, no gland H 48 in breakout, no gland L 72 in breakout, no gland P 96 in breakout, no gland A No gland, no breakout	**Unit of measure** F Feet M Meter	**Length minimal length based on breakout** 12 in 3-999 ft 24 in 4-999 ft 48 in 6-999 ft 72 in 8-999 ft 96 in 10-999 ft 12 in 1-305 m 24-48 in 2-305 m 72 in 3-305 m 96 in 4-305 m Total length includes the breakout

SYSTIMAX ULL MPO/LC Array Cords

TeraSPEED singlemode 8- and 12-fiber or multimode 12- and 24-fiber MPO connectors ensure fast and simple connections

Available in LazrSPEED 550 OM4 and LazrSPEED 550 OM5 Wideband multimode fibers

Factory-terminated and tested trunk cables provide superior quality and performance for field connections

MPO-LC array fanouts are constructed with 1.6-millimeter reinforced zipcord furcation tubing for outstanding durability and dependability

Array fanouts are available with multiple breakout lengths to simplify installation

SYSTIMAX ULL MPO/LC Array Cords

1	2	3	4 5	6 7	8	9 10 11	12	13	14-16
U	Q	X	M P	L C	G	D - M	E	F	010
Construction type U Ultra-Low Loss	**Cable family** Q Plenum array N LSZH array	**Fiber type** G TeraSPEED singlemode (A2) X LazrSPEED 550 multimode V LazrSPEED OM5 WB multimode	**Connector 1** MP 12f MPO (female) MX 12f MPO (male) 2P 24f MPO (female) 2X 24f MPO (male)	**Connector 2** LC LC connector	**Cordage size** G 12-fiber PmP Array Cord H 24-fiber PmP Array Cord *24-fiber PmP cable not available for TeraSPEED singlemode	**Fiber count** D 12-fiber F 24-fiber	**Color** M Aqua N Lime green J Yellow LazrSPEED OM4 standard is aqua LazrSPEED OM5 standard is lime green TeraSPEED singlemode standard is yellow	**Breakout length** D 12 in breakout, no gland E 24 in breakout, no gland H 48 in breakout, no gland L 72 in breakout, no gland P 96 in breakout, no gland	**Unit of measure** F Feet M Meter	**Length minimal length based on breakout** 12 in 3-999 ft 24 in 4-999 ft 48 in 6-999 ft 72 in 8-999 ft 96 in 10-999 ft 12 in 1-305 m 24-48 in 2-305 m 72 in 3-305 m 96 in 4-305 m Other lengths available

Note: for MPO-8 products and other trunk configurations please contact your CommScope sales representative.

Review System Selection Fiber Pre-terminated 19″ here.

All cable assemblies on this page fit to:

Fiber Basic | Fiber HD | Fiber Enhanced HD | Mixed Media Basic

SYSTIMAX ULL LC-LC Pre-terminated Array Trunks

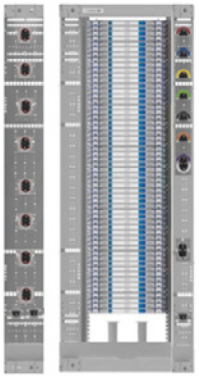
LC/LC trunks, 24 f		Jacket Material	Fiber Type	Description Code	Part Number
LC/LC Microdistribution-cable, 12 x LC Duplex uniboot on each side, flexible cable construction, OD 3 mm		LSZH/riser	OM4	URXLULUHF	URXLULUHF
LC/LC Microdistribution-cable, 12 x LC Duplex uniboot on each side, flexible cable construction, OD 3 mm		LSZH/riser	OM5	URVLULUHF	URVLULUHF
LC/LC Microdistribution-cable, 12 x LC Duplex uniboot on each side, flexible cable construction, OD 3 mm		LSZH/riser	OS2	FRWLULUHF	FRWLULUHF
LC/LC Microdistribution-cable, 12 x LC Duplex uniboot on each side, flexible cable construction, OD 3 mm		Plenum	OM4	UQXLULUHF	UQXLULUHF
LC/LC Microdistribution-cable, 12 x LC Duplex uniboot on each side, flexible cable construction, OD 3 mm		Plenum	OM5	UQVLULUHF	UQVLULUHF
LC/LC Microdistribution-cable, 12 x LC Duplex uniboot on each side, flexible cable construction, OD 3 mm		Plenum	OS2	FQWLULUHF	FQWLULUHF

SYSTIMAX ULL Patch Cords

Patch Cords	Patch Cord Type	Application	Fiber Type	Description Code	Part Number
Ultra Low Loss (ULL) LazrSPEED® 550 OM4 LC Uniboot to LC Uniboot, Fiber Patch Cord, 1.5 mm Duplex, LSZH/Riser	LC-D to LC-D, 1,5 mm diameter, LSZH/Riser	Distribution/XC	OM4	UFXLULUK2	UFXLULUK2
Ultra Low Loss (ULL) LazrSPEED® 550 WideBand OM5 LC Uniboot to LC Uniboot, Fiber Patch Cord, 1.5 mm Duplex, LSZH/Riser	LC-D to LC-D, 1,5 mm diameter, LSZH/Riser	Distribution/XC	OM5	UFVLULUK2	UFVLULUK2
Ultra Low Loss (ULL) TeraSpeed LC Uniboot to LC Uniboot, Fiber Patch Cord, 1.5 mm Duplex, LSZH/Riser	LC-D to LC-D, 1,5 mm diameter, LSZH/Riser	Distribution/XC	OS2	UFGLULUK2	UFGLULUK2
Ultra Low Loss (ULL) LazrSPEED® 550 OM4 LC Uniboot to LC Uniboot, Fiber Patch Cord, 2.0 mm Duplex, LSZH/Riser	LC-D to LC-D, 2 mm diameter, LSZH/Riser	Equipment Area	OM4	UFXLULU62	UFXLULU62
Ultra Low Loss (ULL) LazrSPEED® 550 WideBand OM5 LC Uniboot to LC Uniboot, Fiber Patch Cord, 2.0 mm Duplex, LSZH/Riser	LC-D to LC-D, 2 mm diameter, LSZH/Riser	Equipment Area	OM5	UFVLULU62	UFVLULU62
Ultra Low Loss (ULL) TeraSpeed LC Uniboot to LC Uniboot, Fiber Patch Cord, 2.0 mm Duplex, LSZH/Riser	LC-D to LC-D, 2 mm diameter, LSZH/Riser	Equipment Area	OS2	UFGLULU62	UFGLULU62
Ultra Low Loss (ULL) LazrSPEED® 550 OM4 MPO/8 (Female) to MPO/8 (Female), 8-Fiber, LSZH/Riser	MPO-MPO, female, 8 fibers, LSZH/Riser	Distribution or Equipm. Area	OM4	URXQPQPJ8	URXQPQPJ8
Ultra Low Loss (ULL) LazrSPEED® 550 WideBand OM5 MPO/8 (Female) to MPO/8 (Female), 8-Fiber, LSZH/Riser	MPO-MPO, female, 8 fibers, LSZH/Riser	Distribution or Equipm. Area	OM5	URVQPQPJ8	URVQPQPJ8
Ultra Low Loss (ULL) TeraSpeed® MPO/8 (Female) to MPO/8 (Female), 8-Fiber, LSZH/Riser	MPO-MPO, female, 8 fibers, LSZH/Riser	Distribution or Equipm. Area	OS2	URGQPQPJ8	URGQPQPJ8

Select a part for more information.

FACT-FACT Pre-Term

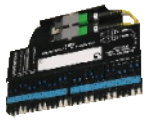


FIST GR3 Frame

FACT Element

Patch Cord

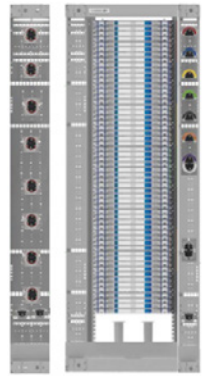
MPO Trunk or Array Trunk



FACT ULL Module

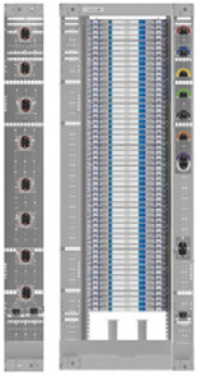
FACT Element

Patch Cord



FIST GR3 Frame

FACT-Panel Pre-Term

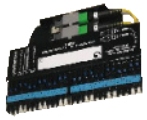


FIST GR3 Frame

FACT Element

Patch Cord

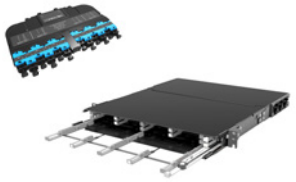
MPO Trunk or Array Trunk



FACT ULL Module

Fiber Basic

Fiber HD



Fiber Enhanced HD

Mixed Media Basic

Review System Selection Fiber Pre-terminated FACT here.

GR3 Frame				Description Code	Part Number
GR3 ODF for 56 FACT elements, including 2 x 150 mm side ducts with 10 drums each				FIST-GR3-R-150/150-22-2	CS6171-000
FACT Backplate 28S, to mount FACT elements in the GR3 frame, 2 pcs required for one GR3				FACT-ACCBPL28E	760239956
FIST GR3 door for 600mm central section, Width: 600mm Height:2200mm, Lock included				FIST-GR3-D-600-22-2	CZ9827-000
FIST GR3 Accessories				**Description Code**	**Part Number**
L-CAP, 3 pieces per 150 mm to fix pre-term fanouts				FIST-GR3-BOIC-LPL	EG5792-000
300 mm storage bay (short side panels included)				FIST-GR3-SB-300-22-2	CV7092-000
FIST™ GR3 Set of 2 side/back panels, 2200mm high, 300mm wide, gray				FIST-GR3-P-300-22	CS9084-000
FIST™ GR3 Side by side attachment bracket for installation of 2 racks side by side				FIST-GR3-STS	CC9465-000
FIST TM GR3 Back-to-back attachment bracket for installation of 2 racks back-to-back				FIST-GR2-BTB	518372-000
Kit to lead jumpers from front to back of rack; required when extended base duct used				FIST-GR3-BD-BTB-600/215	EF8196-000
FIST™ GR3 Extended base duct, 150mm wide, for increased patch cord capacity at bottom of rack				FIST-GR3-BD-150/215	EF7794-000
FIST™ GR3 Extended base duct, 300mm wide, for increased patch cord capacity at bottom of rack				FIST-GR3-BD-300/215	EF7793-000
FACT Patch-Patch Elements and FACT NG4 Elements	**Element Type**	**Fiber Count**	**Fiber Type**	**Description Code**	**Part Number**
FACT™ Fiber Optic Patch Panel, gray, 6E high, 288-port simplex, multimode, OM4, holding 10 hinged trays loaded with LC/UPC adapters	Patch/Patch	288	OM4	FACT-6EPATL4	760240442
FACT™ Fiber Optic Patch Panel, gray, 6E high, 288-port simpex, singlemode, holding 10 hinged trays loaded with LC/UPC adapters	Patch/Patch	288	OS2	FACT-6EPATL1	760240441
FACT™ Fiber Optic Patch Panel, gray, 4E high, 192-port simplex, multimode, OM4, holding 8 hinged trays loaded with LC/UPC adapters	Patch/Patch	192	OM4	FACT-4EPATL4	760239995
FACT™ Fiber Optic Patch Panel, gray, 4E high, 192-port simplex, singlemode, holding 8 hinged trays loaded with LC/UPC adapters	Patch/Patch	192	OS2	FACT-4EPATL1	760239993
FACT™ Fiber Optic Patch Panel, gray, 3E high, 144-port simplex, multimode, OM4, holding 6 hinged trays loaded with LC/UPC adapters	Patch/Patch	144	OM4	FACT-3EPATL4	760239990
FACT™ Fiber Optic Patch Panel, gray, 3E high, 144-port simplex, singlemode, holding 6 hinged trays loaded with LC/UPC adapters	Patch/Patch	144	OS2	FACT-3EPATL1	760239988
FACT™ Fiber Optic Patch Panel, gray, 2E high, 96-port simplex, multimode, OM4, holding 4 hinged trays loaded with LC/UPC adapters	Patch/Patch	96	OM4	FACT-2EPATL4	760239984
FACT™ Fiber Optic Patch Panel, gray, 2E high, 96-port simplex, singlemode, holding 4 hinged trays loaded with LC/UPC adapters	Patch/Patch	96	OS2	FACT-2EPATL1	760239982
FACT™ Fiber Optic Patch Panel, gray, 1E high, 48-port simplex, multimode, OM4, holding 2 hinged trays loaded with LC/UPC adapters	Patch/Patch	48	OM4	FACT-1EPATL4	760240416
FACT™ Fiber Optic Patch Panel, gray, 1E high, 48-port simplex, singlemode, holding 2 hinged trays loaded with LC/UPC adapters	Patch/Patch	48	OS2	FACT-1EPATL1	760240414
FACT™ NG4 Fiber Panel, with 12 unloaded trays, gray, 6E high, for holding 12 NG4 MPO modules	NG4 Module	288	Universal	FACT-6ENG4	760242087
FACT™ NG4 Fiber Panel, with 8 unloaded trays, gray, 4E high, for holding 8 NG4 MPO modules	NG4 Module	192	Universal	FACT-4ENG4	760239978
FACT™ NG4 Fiber Panel, with 6 unloaded trays, gray, 3E high, for holding 6 NG4 MPO modules	NG4 Module	144	Universal	FACT-3ENG4	760239977
FACT™ NG4 Fiber Panel, with 4 unloaded trays, gray, 2E high, for holding 4 NG4 MPO modules	NG4 Module	96	Universal	FACT-2ENG4	760239976
FACT™ NG4 Fiber Panel, with 2 unloaded trays, gray, 1E high, for holding 2 NG4 MPO modules	NG4 Module	48	Universal	FACT-1ENG4	760239975
FACT NG4 Module	**Cable Entrance**		**Fiber Type**	**Description Code**	
FACT left sided ULL module, MPO24f to 12x LC-D, OM4	Left		OM4	FACT-MMDLC2-B	
FACT right sided ULL module, MPO24f to 12x LC-D, OM4	Right		OM4	FACT-MMDRC2-B	
FACT left sided ULL module, MPO24f to 12x LC-D, OM5	Left		OM5	FACT-MMDL52-B	
FACT right sided ULL module, MPO24f to 12x LC-D, OM5	Right		OM5	FACT-MMDR52-B	
FACT left sided ULL module, 2 x MPO12f to 12x LC-D, OS2	Left		OS2	FACT-MMDLKE-B	
FACT right sided ULL module, 2 x MPO12f to 12x LC-D, OS2	Right		OS2	FACT-MMDRKE-B	

Review System Selection Fiber Pre-terminated FACT here.

All cable assemblies on this page fit to:

FACT-FACT Pre-Term | FACT-Panel Pre-Term

SYSTIMAX ULL Pre-terminated Trunk Cables

- 12- and 24-fiber MPO connector-based modules available in LazrSPEED 550 OM4 and LazrSPEED OM5 Wideband multimode fiber solutions
- 12-fiber MPO connector-based modules available in TeraSPEED singlemode fiber solutions
- Factory-terminated and tested trunk cables provide superior quality and performance for field connections
- Reliable transmit-to-receive connectivity using Method B Enhanced polarity maintenance maximizes administrative convenience
- Simplified reconfiguration for moves, adds and changes (MACs)
- Easy upgrade path to parallel transmission and associated applications, and increased value of existing infrastructure
- SYSTIMAX ULL trunks are provisioned with pins to interface with G2 and EHD ULL modules (without pins)

SYSTIMAX ULL MPO-12 Trunk Cables

1	2	3	4 5	6 7	8	9 10 11	12	13	14-16
U	J	X	M X	M X	A	K - M	A	F	010

Construction type
U Ultra-Low Loss

Family
G Trunk, Plenum
J Trunk, LSZH/Riser

Fiber type
G TeraSPEED singlemode (A2)
X LazrSPEED 550 multimode
V LazrSPEED OM5 WB multimode

Termination end A
MX MPO (male)

Termination end B
MX MPO (male)

Construction
A 12 Fiber PmP

Fiber count
D 12-fiber
F 24-fiber
H 48-fiber
K 72-fiber
L 96-fiber
M 144-fiber

Color
M Aqua
N Lime green
J Yellow

LazrSPEED OM4 standard is aqua

LazrSPEED OM5 standard is lime green

TeraSPEED singlemode standard is yellow

Options
W No gland, 60" breakout

Use accessory gland for patch cords in case gland is required on one side only

Unit of measure
F Feet
M Meter

Length
010-999 Feet
003-305 Meter

SYSTIMAX ULL MPO-24 Trunk Cables

1	2	3	4 5	6 7	8	9 10 11	12	13	14-16
U	G	V	2 X	2 X	B	M - N	C	F	010

Construction type
U Ultra-Low Loss

Family
G Trunk, Plenum
J Trunk, LSZH/Riser

Fiber type
X LazrSPEED 550 multimode
V LazrSPEED OM5 WB multimode

Termination end A
2X MPO (male)

Termination end B
2X MPO (male)

Construction
B 24-fiber PmP

Fiber count
F 24-fiber
H 48-fiber
K 72-fiber
L 96-fiber
M 144-fiber

Color
M Aqua
N Lime green

LazrSPEED OM4 standard is aqua

LazrSPEED OM5 standard is lime green

Options
W No gland, 60" breakout

Use accessory gland for patch cords in case gland is required on one side only

Unit of measure
F Feet
M Meter

Length
010-999 Feet
003-305 Meter

Note: for MPO-8 products and other trunk configurations please contact your CommScope sales representative.

Review System Selection Fiber Pre-terminated FACT here.

All cable assemblies on this page fit to:

FACT-FACT Pre-Term | FACT-Panel Pre-Term

SYSTIMAX ULL MPO Array Cords

- 12- and 24-fiber MPO connector-based modular design enables simple connections
- Array cords are constructed with 550 OM4 and OM5 Wideband and singlemode fibers
- Factory-terminated and tested for instant field connections giving guaranteed quality and performance
- MPO-MPO arrays are constructed with 3.0 mm PmP array cords

SYSTIMAX ULL MPO Array Cords

1	2	3	4 5	6 7	8	9 10 11	12	13	14-16
U	Q	X	M P	M P	G	D - M	E	F	010

Construction type
U Ultra-Low Loss

Cable family
Q Plenum array
R LSZH array

Fiber type
G TeraSPEED singlemode (A2)
X LazrSPEED 550 multimode
V LazrSPEED OM5 WB multimode

Connector 1
MX 12f MPO (male)
2X 24f MPO (male)

*2P, 2X and 2C only available for multimode fiber

Connector 2
MX 12f MPO (male)
2X 24f MPO (male)

Cordage size
G 12-fiber PmP Array Cord
H 24-fiber PmP Array Cord

*24-fiber PmP cable not available for TeraSPEED singlemode

Fiber count
D 12-fiber
F 24-fiber

Color
M Aqua
N Lime green
J Yellow

LazrSPEED OM4 standard is aqua

LazrSPEED OM5 standard is lime green

TeraSPEED singlemode standard is yellow

Breakout length
D 12 in breakout, no gland
E 24 in breakout, no gland
H 48 in breakout, no gland
L 72 in breakout, no gland
P 96 in breakout, no gland
A No gland, no breakout

Unit of measure
F Feet
M Meter

Length minimal length based on breakout
12 in 3-999 ft
24 in 4-999 ft
48 in 6-999 ft
72 in 8-999 ft
96 in 10-999 ft

12 in 1-305 m
24-48 in 2-305 m
72 in 3-305 m
96 in 4-305 m

Total length includes the breakout

Note: for MPO-8 products and other trunk configurations please contact your CommScope sales representative.

Review System Selection Fiber Pre-terminated FACT here.

SYSTIMAX ULL LC-LC Pre-terminated Array Trunks

LC/LC trunks, 24 f		Jacket Material	Fiber Type	Description Code	Part Number
LC/LC Microdistribution-cable, 12 x LC Duplex uniboot on each side, flexible cable construction, OD 3 mm		LSZH/riser	OM4	URXLULUHF	URXLULUHF
LC/LC Microdistribution-cable, 12 x LC Duplex uniboot on each side, flexible cable construction, OD 3 mm		LSZH/riser	OM5	URVLULUHF	URVLULUHF
LC/LC Microdistribution-cable, 12 x LC Duplex uniboot on each side, flexible cable construction, OD 3 mm		LSZH/riser	OS2	FRWLULUHF	FRWLULUHF
LC/LC Microdistribution-cable, 12 x LC Duplex uniboot on each side, flexible cable construction, OD 3 mm		Plenum	OM4	UQXLULUHF	UQXLULUHF
LC/LC Microdistribution-cable, 12 x LC Duplex uniboot on each side, flexible cable construction, OD 3 mm		Plenum	OM5	UQVLULUHF	UQVLULUHF
LC/LC Microdistribution-cable, 12 x LC Duplex uniboot on each side, flexible cable construction, OD 3 mm		Plenum	OS2	FQWLULUHF	FQWLULUHF

SYSTIMAX ULL Patch Cords

Patch Cords	Patch Cord Type	Application	Fiber Type	Description Code	Part Number
Ultra Low Loss (ULL) LazrSPEED® 550 OM4 LC Uniboot to LC Uniboot, Fiber Patch Cord, 1.5 mm Duplex, LSZH/Riser	LC-D to LC-D, 1,5 mm diameter, LSZH/Riser	Distribution/XC	OM4	UFXLULUK2	UFXLULUK2
Ultra Low Loss (ULL) LazrSPEED® 550 WideBand OM5 LC Uniboot to LC Uniboot, Fiber Patch Cord, 1.5 mm Duplex, LSZH/Riser	LC-D to LC-D, 1,5 mm diameter, LSZH/Riser	Distribution/XC	OM5	UFVLULUK2	UFVLULUK2
Ultra Low Loss (ULL) TeraSpeed LC Uniboot to LC Uniboot, Fiber Patch Cord, 1.5 mm Duplex, LSZH/Riser	LC-D to LC-D, 1,5 mm diameter, LSZH/Riser	Distribution/XC	OS2	UFGLULUK2	UFGLULUK2
Ultra Low Loss (ULL) LazrSPEED® 550 OM4 LC Uniboot to LC Uniboot, Fiber Patch Cord, 2.0 mm Duplex, LSZH/Riser	LC-D to LC-D, 2 mm diameter, LSZH/Riser	Equipment Area	OM4	UFXLULU62	UFXLULU62
Ultra Low Loss (ULL) LazrSPEED® 550 WideBand OM5 LC Uniboot to LC Uniboot, Fiber Patch Cord, 2.0 mm Duplex, LSZH/Riser	LC-D to LC-D, 2 mm diameter, LSZH/Riser	Equipment Area	OM5	UFVLULU62	UFVLULU62
Ultra Low Loss (ULL) TeraSpeed LC Uniboot to LC Uniboot, Fiber Patch Cord, 2.0 mm Duplex, LSZH/Riser	LC-D to LC-D, 2 mm diameter, LSZH/Riser	Equipment Area	OS2	UFGLULU62	UFGLULU62
Ultra Low Loss (ULL) LazrSPEED® 550 OM4 MPO/8 (Female) to MPO/8 (Female), 8-Fiber, LSZH/Riser	MPO-MPO, female, 8 fibers, LSZH/Riser	Distribution or Equipm. Area	OM4	URXQPQPJ8	URXQPQPJ8
Ultra Low Loss (ULL) LazrSPEED® 550 WideBand OM5 MPO/8 (Female) to MPO/8 (Female), 8-Fiber, LSZH/Riser	MPO-MPO, female, 8 fibers, LSZH/Riser	Distribution or Equipm. Area	OM5	URVQPQPJ8	URVQPQPJ8
Ultra Low Loss (ULL) TeraSpeed® MPO/8 (Female) to MPO/8 (Female), 8-Fiber, LSZH/Riser	MPO-MPO, female, 8 fibers, LSZH/Riser	Distribution or Equipm. Area	OS2	URGQPQPJ8	URGQPQPJ8

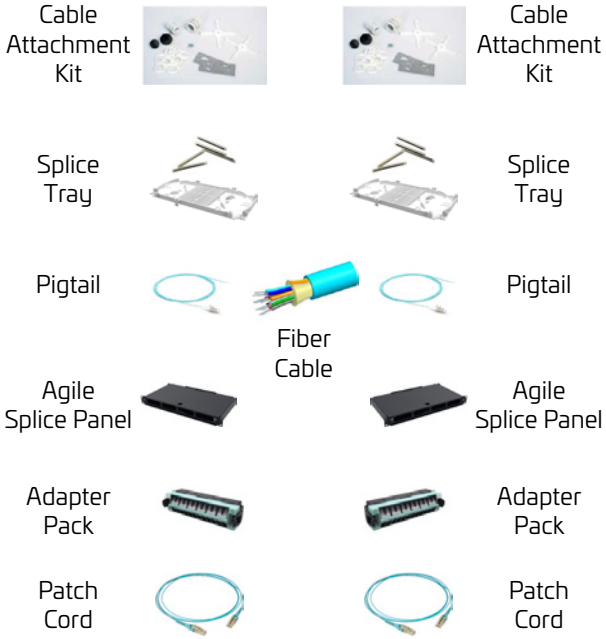
Mixed Media Panels	Copper Tech		Description Code	Part Number
SYSTIMAX 360™ GigaSPEED X10D® and GigaSPEED XL® Evolve 1U U/UTP Panel Kit	U/UTP		360-E-KIT-1U	760155739
SYSTIMAX 360™ GigaSPEED X10D® Evolve 1U F/UTP Panel Kit	F/UTP		360-IPR-MFTP-E-HD6B-1U-24	760150144
Mixed Media Panel Accessories				
SYSTIMAX 360™ 1100 EVOLVE G2 BEZEL (Cool Gray)			360-1100-E-FB-4PK	760175877
SYSTIMAX 360™ 1100 Evolve Fiber Cable Management			361 1100-E-FCM	760175919
SYSTIMAX 360™ 1100 EVOLVE G2 BEZEL (Blank)			360-1100-E-BB	760165191
InstaPATCH® Copper Trunks	**Copper Tech**	**Jacket Material**	**Description Code**	**Part Number**
InstaPATCH® Cu GigaSPEED X10D® U/UTP LSZH Preterminated Copper Cable, 360 1100 Evolve module to 360 1100 Evolve module, 6 links	U/UTP	LSZH	CCRRB-11SA08	CCRRB-11SA08
InstaPATCH® Cu GigaSPEED X10D® F/UTP LSZH Copper Cable, single row standard density outlet to single row standard density outlet, 6 links	F/UTP	LSZH	CFAAB-11SA08	CFAAB-11SA08
InstaPATCH® Cu GigaSPEED X10D® U/UTP Plenum Preterminated Copper Cable, 360 1100 Evolve module to 360 1100 Evolve module, 6 links	U/UTP	Plenum	CARRB-11SA08	CARRB-11SA08
InstaPATCH® Cu GigaSPEED X10D® F/UTP Plenum Copper Cable, single row standard density outlet to single row standard density outlet, 6 links	F/UTP	Plenum	CDAAB-11SA08	CDAAB-11SA08
InstaPATCH® Cu GigaSPEED X10D® U/UTP Riser Preterminated Copper Cable, 360 1100 Evolve module to 360 1100 Evolve module, 6 links	U/UTP	Riser	CBRRB-11SA08	CBRRB-11SA08
InstaPATCH® Cu GigaSPEED X10D® F/UTP Riser Copper Cable, single row standard density outlet to single row standard density outlet, 6 links	F/UTP	Riser	CEAAB-11SA08	CEAAB-11SA08
Copper Patch Cords	**Copper Tech**	**Jacket Material**	**Description Code**	**Part Number**
GigaSPEED X10D® G10SP on S/FTP Low Smoke Zero Halogen Cordage, S/FTP Modular Patch Cord, White Jacket	S/FTP	LSZH/Riser	G10SP-L-WH	CA111K2-08
GigaSPEED X10D® 360GS10E 23-AWG Plenum Patch Cable, white jacket	U/UTP	Plenum	360GS10E-P-H-WH	CPCSSO2-08
Mixed Media Panel Accessories			**Description Code**	**Part Number**
SYSTIMAX 360™ 1100 EVOLVE G2 BEZEL (Cool Gray)			360-1100-E-FB-4PK	760175877
SYSTIMAX 360™ 1100 Evolve Fiber Cable Managemen			361 1100-E-FCM	760175919
SYSTIMAX 360™ 1100 EVOLVE G2 BEZEL (Blank)			360-1100-E-BB	760165191

System Selection
Splicing

Select a part for more information.

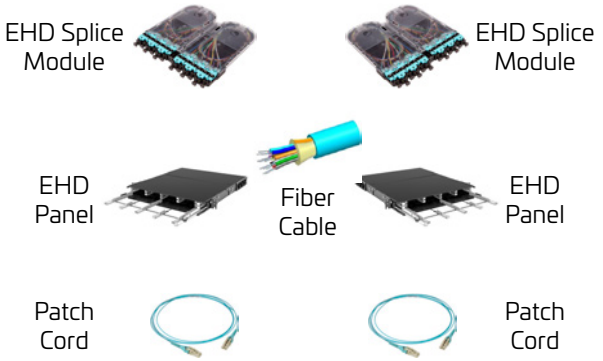
Fiber Basic

- 48 ports LC-D or 32 ports MPO
- No cable management
- Basic labeling



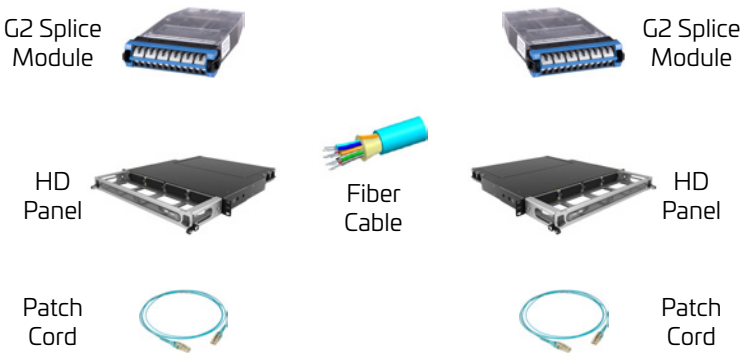
Fiber Enhanced HD

- 72 ports LC-D or 72 ports MPO
- Front cable management
- Labeling option (printer support)
- Sliding tray for better cable modules access



Fiber HD

- 48 ports LC-D or 32 ports MPO
- Front cable management
- Labeling option (printer support)
- Sliding tray for easier cable/modules access



Review System Selection Fiber Splicing 19″ here.

Fiber Basic | Fiber HD | Fiber Enhanced HD | Mixed Media Basic

Fits to	Basic Fiber Panel				Description Code	Part Number
	AGILE 1U sliding panel, accepts (4) G2 modules or adapter packs providing up to 48 duplex LC or 32 MPO ports				AGL-1U-DRW-SL	760242455
Fits to	**Splice Accessories**					**Part Number**
	Cable Attachment Kit for AGL fiber panel					1671273-1
	Fiber optic splice tray, stackable, for SMOUV splice protectors, 48 splices per tray, SMOUVs and SMOUV holder included					760241378
	Fiber optic splice tray, stackable, 24 splices per tray, for ANT splice protectors, ANT holder included, ANT splice protector to be orderes seperately					760245882
	ANT splice protector (qty.: 150)					183398-000
Fits to	**Splice Modules / Adapter Packs**	**Fiber**	**Module**		**Description Code**	**Part Number**
	G2 Distribution Adapter Pack 12 LC with internal shutters, Multimode OM4 Aqua	OM4	Adapter Pack		360DPis-24LC-LS	760216754
	G2 Distribution Adapter Pack 24 LC with internal shutters, Multimode OM5 Lime Green	OM5	Adapter Pack		360DPis-24LC-WB	760236041
	G2 Distribution Adapter Pack 12 LC with internal shutters, Singlemode Blue	OS2	Adapter Pack		360DPis-24LC-SM	760216762
Fits to	**Pigtails**	**Fiber**		**Jacket**	**Description Code**	**Spalte3**
	OM4 LC to Unconnectorized, Fiber Pigtail, 0.9 mm Tight Buffer, 12-pigtail Kit, Blue - Aqua (1-12)	OM4		Tight Buffer	FAXLCUC0C-XXF006	FAXLCUC0C
	Ultra Low Loss (ULL) LazrSPEED® 550 WideBand OM5 LC to Unconnectorized, Fiber Pigtail, 0.9 mm Tight Buffer, 12-pigtail Kit, Blue - Aqua (1-12)	OM5		Tight Buffer	UAVLCUC0C-XXF006	UAVLCUC0C
	OS2 LC to Unconnectorized, Fiber Pigtail, 0.9 mm Tight Buffer	OS2		Tight Buffer	FAWLCUC01-JXF006	FAWLCUC01
	Fiber Optic Pigtail, Simplex, easy strip, Multimode OM4, LC/UPC to Stub, aqua, 2 m	OM4		Easy Strip	N/A	2160044-2
	Fiber Optic Pigtail, Simplex, easy strip, singlemode OS2, LC/PC to pigtail, 900 µm tuned, 2 m, white	OS2		Easy Strip	N/A	2160054-2
Fits to	**Evolved Fiber Panels**			**RU**	**Description Code**	**Part Number**
	High Density 1U modular cassette sliding Panel, accepts (4) InstaPATCH® 360 modules or MPO panels, providing up to 48 duplex LC ports, or up to 32 MPO ports			1	HD-1U	760209940
	High Density 2U modular cassette sliding Panel, accepts (8) InstaPATCH® 360 modules or MPO panels, providing up to 96 duplex LC ports or up to 64 MPO ports			2	HD-2U	760209957
Fits to	**Splice Modules / Accessories**	**Fiber**	**Module**		**Description Code**	**Part Number**
	G2 Splice Cassette 24 LC, OM4, including pigtails	OM4	G2		G2-SP-24LCX-PT	760244927
	G2 Splice Cassette 24 LC, OS2, including pigtails	OS2	G2		G2-SP-24LCG-PT	760244929
	G2 blank adapters, 4 pcs	N/A	N/A		360G2-MOD-BLANK-4PK	760109462
Fits to	**Enhanced HD Fiber Panels**			**RU**	**Description Code**	**Part Number**
	EHD 1U sliding tray fiber panel, accepts (6) EHD ULL modules, splice cassettes or MPO panels, providing up to 72 duplex LC ports or up to 72 MPO ports			1	EHD-1U	EHD-1U
	EHD 2U sliding tray fiber panel, accepts (12) EHD ULL modules, splice cassettes or MPO panels, providing up to 144 duplex LC ports or up to 144 MPO ports			2	EHD-2U	EHD-2U
	EHD 4U sliding tray fiber panel, accepts (24) EHD ULL modules, splice cassettes or MPO panels, providing up to 288 duplex LC ports or up to 288 MPO ports			4	EHD-4U	EHD-4U
Fits to	**Splice Modules / Accessories**	**Fiber**	**Module**		**Description Code**	**Part Number**
	EHD ULL 24 LC stranded fiber splice cassette, LazrSPEED OM4, UPC, Enhanced Method B, includes 24, FST-ACC005 single fiber splice sleeves	OM4	EHD		EHD-SP-24LC-LS-B-ULL	760238935
	EHD ULL 24 LC stranded fiber splice cassette, TeraSPEED single mode, UPC, Enhanced Method B, includes 24, FST-ACC005 single fiber splice sleeves	OS2	EHD		EHD-SP-24LC-SM-B-ULL	760238936

Review System Selection Fiber Splicing 19″ here.

Loose Tube and Distribution Cable Indoor	Fiber Type	Fiber Count	Jacket Material	Description Code	Part Number
CommScope OM4 loose tube cable, Low Smoke Zero Halogen, 48 fiber multi-unit with 12 fiber subunits	OM4	48	LSZH	POC-FO-MCRO-LSZH-48X2-2KM	2-1716297-2
CommScope OM4 loose tube cable, Low Smoke Zero Halogen 96 fiber multi-unit with 12 fiber subunits	OM4	96	LSZH	POC-FO-MCRO-LSZH-96X2-2KM	2-1716300-2
CommScope OM4 loose tube cable, Low Smoke Zero Halogen, 144 fiber multi-unit with 12 fiber subunits	OM4	144	LSZH	POC-FOMCRO-LSZH-144X2-2KM	2-1716301-2
LazrSPEED® 550 OM4 Plenum Distribution Cable, 48 fiber multi-unit with 12 fiber subunits	OM4	48	Plenum	P-048-DS-5K-FMUAQ	760024554
LazrSPEED® 550 OM4 Plenum Distribution Cable, 96 fiber multi-unit with 12 fiber subunits	OM4	96	Plenum	P-096-DS-5K-FMUAQ	760021691
LazrSPEED® 550 OM4 Plenum Distribution Cable, 144 fiber multi-unit with 12 fiber subunits	OM4	144	Plenum	P-144-DS-5K-FMUAQ	760024869
LazrSPEED® 550 OM4 Riser Distribution Cable, 48 fiber multi-unit with 12 fiber subunits	OM4	48	Riser	R-048-DS-5K-FMUAQ	760026849
LazrSPEED® 550 OM4 Riser Distribution Cable, 96 fiber multi-unit with 12 fiber subunits	OM4	96	Riser	R-096-DS-5K-FMUAQ	760026864
LazrSPEED® 550 OM4 Riser Distribution Cable, 144 fiber multi-unit with 12 fiber subunits	OM4	144	Riser	R-144-DS-5K-FMUAQ	760026872
CommScope OS2 loose tube cable, Low Smoke Zero Halogen, 48 fiber multi-unit with 12 fiber subunits	OS2	48	LSZH	C-048-LN-8F-M12YL/14D/D	2-1716297-4
CommScope OS2 loose tube cable, Low Smoke Zero Halogen, 96 fiber multi-unit with 12 fiber subunits	OS2	96	LSZH	POC-FO-MCRO-LSZH-96X4-2KM	2-1716300-4
CommScope OS2 loose tube cable, Low Smoke Zero Halogen, 144 fiber multi-unit with 12 fiber subunits	OS2	144	LSZH	POC-FOMCRO-LSZH-144X4-2KM	2-1716301-4
TeraSPEED® OS2 Plenum Distribution Cable, 48 fiber multi-unit with 12 fiber subunits	OS2	48	Plenum	P-048-DS-8W-FMUYL	760004382
TeraSPEED® OS2 Plenum Distribution Cable, 96 fiber multi-unit with 12 fiber subunits	OS2	96	Plenum	P-096-DS-8W-FMUYL	760018051
TeraSPEED® OS2 Plenum Distribution Cable, 144 fiber multi-unit with 12 fiber subunits	OS2	144	Plenum	P-144-DS-8W-FMUYL	760018895
TeraSPEED® OS2 Riser Distribution Cable, 48 fiber multi-unit with 12 fiber subunits	OS2	48	Riser	R-048-DS-8W-FMUYL	760004473
TeraSPEED® OS2 Riser Distribution Cable, 96 fiber multi-unit with 12 fiber subunits	OS2	96	Riser	R-096-DS-8W-FMUYL	760026823
TeraSPEED® OS2 Riser Distribution Cable, 144 fiber multi-unit with 12 fiber subunits	OS2	144	Riser	R-144-DS-8W-FMUYL	760018887
Loose Tube Cable Outdoor, Armored	**Fiber Type**	**Fiber Count**		**Description Code**	**Part Number**
OM4 Single Jacket/Single Armor, Gel-Free, Outdoor Stranded Loose Tube Cable, 48 fibers	OM4	48		D-048-LA-5K-F12NS	760053769
OM4 Single Jacket/Single Armor, Gel-Free, Outdoor Stranded Loose Tube Cable, 96 fibers	OM4	96		D-096-LA-5K-F12NS	760053793
OM4 Single Jacket/Single Armor, Gel-Free, Outdoor Stranded Loose Tube Cable, 144 fibers	OM4	144		D-144-LA-5K-F12NS	760053801
OM4 Single Jacket/Single Armor, Gel-Free, Outdoor Stranded Loose Tube Cable, 288 fibers	OM4	288		D-288-LA-5K-F12NS	760053819
Singlemode OS2 Single Jacket/Single Armor, Gel-Free, Outdoor Stranded Loose Tube Cable, 48 fibers	OS2	48		D-048-LA-8W-F12NS	760053314
Singlemode OS2 Single Jacket/Single Armor, Gel-Free, Outdoor Stranded Loose Tube Cable, 96 fibers	OS2	96		D-096-LA-8W-F12NS	760053348
Singlemode OS2 Single Jacket/Single Armor, Gel-Free, Outdoor Stranded Loose Tube Cable, 144 fibers	OS2	144		D-144-LA-8W-F12NS	760053355
Singlemode OS2 Single Jacket/Single Armor, Gel-Free, Outdoor Stranded Loose Tube Cable, 288 fibers	OS2	288		D-288-LA-8W-F12NS	760053363

Review System Selection Fiber Splicing 19″ here.

Patch Cords	Patch Cord Type	Application	Fiber Type		Description Code	Part Number
Ultra Low Loss (ULL) LazrSPEED® 550 OM4 LC Uniboot to LC Uniboot, Fiber Patch Cord, 1.5 mm Duplex, LSZH/Riser	LC-D to LC-D, 1,5 mm diameter, LSZH/Riser	Distribution	OM4		UFXLULUK2	UFXLULUK2
Ultra Low Loss (ULL) LazrSPEED® 550 WideBand OM5 LC Uniboot to LC Uniboot, Fiber Patch Cord, 1.5 mm Duplex, LSZH/Riser	LC-D to LC-D, 1,5 mm diameter, LSZH/Riser	Distribution	OM5		UFVLULUK2	UFVLULUK2
Ultra Low Loss (ULL) TeraSpeed LC Uniboot to LC Uniboot, Fiber Patch Cord, 1.5 mm Duplex, LSZH/Riser	LC-D to LC-D, 1,5 mm diameter, LSZH/Riser	Distribution	OS2		UFGLULUK2	UFGLULUK2
Ultra Low Loss (ULL) LazrSPEED® 550 OM4 LC Uniboot to LC Uniboot, Fiber Patch Cord, 2.0 mm Duplex, LSZH/Riser	LC-D to LC-D, 2 mm diameter, LSZH/Riser	Equipment Area	OM4		UFXLULU62	UFXLULU62
Ultra Low Loss (ULL) LazrSPEED® 550 WideBand OM5 LC Uniboot to LC Uniboot, Fiber Patch Cord, 2.0 mm Duplex, LSZH/Riser	LC-D to LC-D, 2 mm diameter, LSZH/Riser	Equipment Area	OM5		UFVLULU62	UFVLULU62
Ultra Low Loss (ULL) TeraSpeed LC Uniboot to LC Uniboot, Fiber Patch Cord, 2.0 mm Duplex, LSZH/Riser	LC-D to LC-D, 2 mm diameter, LSZH/Riser	Equipment Area	OS2		UFGLULU62	UFGLULU62
Ultra Low Loss (ULL) LazrSPEED® 550 OM4 MPO/8 (Female) to MPO/8 (Female), 8-Fiber, LSZH/Riser	MPO-MPO, female, 8 fibers, LSZH/Riser	Distribution or Equipm. Area	OM4		URXQPQPJ8	URXQPQPJ8
Ultra Low Loss (ULL) LazrSPEED® 550 WideBand OM5 MPO/8 (Female) to MPO/8 (Female), 8-Fiber, LSZH/Riser	MPO-MPO, female, 8 fibers, LSZH/Riser	Distribution or Equipm. Area	OM5		URVQPQPJ8	URVQPQPJ8
Ultra Low Loss (ULL) TeraSpeed® MPO/8 (Female) to MPO/8 (Female), 8-Fiber, LSZH/Riser	MPO-MPO, female, 8 fibers, LSZH/Riser	Distribution or Equipm. Area	OS2		URGQPQPJ8	URGQPQPJ8
Cable Management					**Description Code**	**Part Number**
Overlength storage, 4U						1671711-1
Horizontal cable through, 2U, single sided					HKT-19-SS-2U	760072959
Horizontal cable through, 3U, single sided					HKT-19-SS-3U	760072967
Cable Manager 1U						1671495-1
Cable Manager 2U						1671495-2
Cable Manager 4U						1671495-4
Cable Manager 6U						1671495-6
Cable Manager 15U						1-1671495-5
Filler/Blank Panel, 1U x 19", Solid, Black					FPANEL-19-1U	760162065
1U Patchcord Management					HCM-19-SS-1U-EMEA	760038240

Select a part for more information.

Fiber Basic

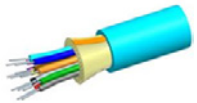
- 48 ports LC-D or 32 ports MPO
- No cable management
- Basic labeling
- Panels available in 1, 2 and 4RU

Cable Attachment Kit

Pigtail

Splice Tray

Patch Cord



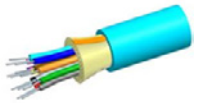
Fiber Cable

Agile Splice Panel

Fiber HD

- 48 ports LC-D or 32 ports MPO
- Front cable management
- Labeling option (printer support)
- Sliding tray for easier cable/modules access
- Panels available in 1, 2 and 4RU

HD Panel



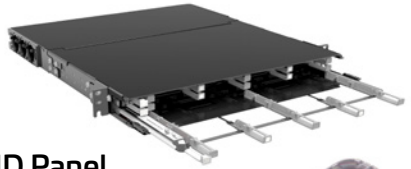
Fiber Cable

G2 Splice Module

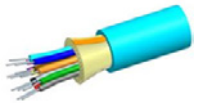
Patch Cord

Fiber Enhanced HD

- 72 ports LC-D or 72 ports MPO
- Front cable management
- Labeling option (printer support)
- Sliding tray for better cable modules access
- Panels available in 1, 2 and 4RU



EHD Panel

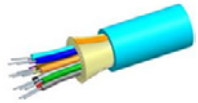


Fiber Cable

EHD Splice Module

Patch Cord

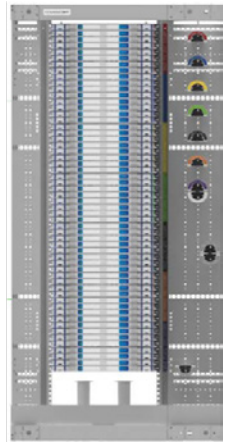
FEC Splice Solution, wall mounted



Fiber Cable

Patch Cord

FACT Splice Solution for GR3 ODF



Review System Selection Entrance Splicing 19″ here.

Entrance Splicing, Wall-Mounted

Enclosure Type	Max Stranded Fibers 48/Tray	Weight	Dimensions (H x W x D)	Part Number
FEC-6	576	40 lbs (18.18 kg)	19.5″ x 32″ x 13″ (49.53 x 81.28 x 33.02 cm)	FEC-6
FEC-12	1152	80 lbs (36.3 kg)	28″ x 32″ x 13″ (71.12 x 81.28 x 33.02 cm)	FEC-12
Splice Trays Standard-style FEC cabinets will accept two single trays or one dual tray per drawer	**Splice Sleeve Protector**	**Splice Trays Type**	**Dimensions (H x W x D)**	**Part Number**
Single tray (12-fiber)	FST-ACC001	Heat shrink (single fiber fusion)	0.3″ x 11.75″ x 5″ (9 mm x 299 mm x 127 mm)	FST-HS
Dual tray (24-fiber)	FST-ACC001	Heat shrink (single fiber fusion)	0.5″ x 11.75″ x 5″ (14 mm x 299 mm x 127 mm)	FST-D-HS
Single tray (48-fiber)	FST-ACC001	Heat shrink (single fiber fusion)	0.3″ x 11.75″ x 5″ (9 mm x 299 mm x 127 mm)	FST-HS-48

Cable Clamp Kits for FEC

IFC/OSP cable clamp kit for wall mount configurations. Secure three cables to a single cable entry point on the cabinet. Clamp kits can be separated and used as single clamps.	Quantity			Part Number
Cables with a maximum diameter of 10 mm (0.4″) to 30 mm (1.2″)	3			OSP-CLPFEC-LG
Cables with a maximum diameter of 5 mm (0.2″) to 18 mm (0.7″)	3			OSP-CLPFEC
Individual IFC/OSP cable clamp for wall mount configurations. Secure one cable to a single cable entry point on the cabinet.	**Quantity**			**Part Number**
Cables with a maximum diameter of 5 mm (0.2″) to 18 mm (0.7″)	1			OSP-CLPSST
Individual IFC/OSP cable clamp for rack or wall mount configurations. Secure one cable to a single cable entry point on the cabinet.	**Quantity**			**Part Number**
Cables with a maximum diameter of 10 mm (0.4″) to 30 mm (1.2″)	1			FEC-ACCCLMP01
Grounding Kits (used to ground armored cables)				**Part Number**
Grounding kit for armored OSP cable includes: 1 cable assembly lug type ground kit and 1 #6 ground cable 229 mm (9″) long				GAK-FEC001
Any armored loose tube or buffer tubed fiber OSP cable includes: 1 bullet ground connector and 1 #6 ground cable 127 mm (5″) long				GND-STPKIT
Frame mount configuration, any armored loose tube or buffer tubed OSP cable includes: 1 bullet ground connector and 1 #6 ground cable 305 mm (12″) long				FEC-ACC GND02

Review System Selection Entrance Splicing 19″ here.

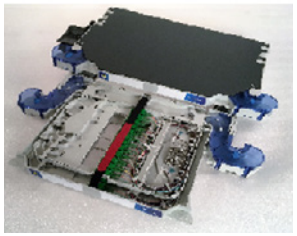
Entrance Splicing ODF

GR3 Frame	Description Code	Part Number
GR3, 2200 mm, 150/150, incl. ducts with 10 drums each	FIST-GR3-R-150/150-22-2	CS6171-000
FACT Backplate 28S, to mount FACT elements in the GR3 frame, 2 pcs required for one GR3	FACT-ACCBPL28E	760239956
FIST GR3 door for 600mm central section, Width: 600mm Height:2200mm, Lock included	FIST-GR3-D-600-22-2	CZ9827-000
GR3 Accessories	**Description Code**	**Part Number**
L-CAP, 3 pieces per 150 mm to fix pre-term fanouts	FIST-GR3-BOIC-LPL	EG5792-000
300 mm storage bay (short side panels included)	FIST-GR3-SB-300-22-2	CV7092-000
FIST™ GR3 Set of 2 side/back panels, 2200mm high, 300mm wide, gray	FIST-GR3-P-300-22	CS9084-000
FIST™ GR3 Side by side attachment bracket for installation of 2 racks side by side	FIST-GR3-STS	CC9465-000
FIST TM GR3 Back-to-back attachment bracket for installation of 2 racks back-to-back	FIST-GR2-BTB	518372-000
Kit to lead jumpers from front to back of rack; required when extended base duct used	FIST-GR3-BD-BTB-600/215	EF8196-000
FIST™ GR3 Extended base duct, 150mm wide, for increased patch cord capacity at bottom of rack	FIST-GR3-BD-150/215	EF7794-000
FIST™ GR3 Extended base duct, 300mm wide, for increased patch cord capacity at bottom of rack	FIST-GR3-BD-300/215	EF7793-000
FACT Fiber Cable Termination Unit (CTU) For (1) fiber cable 15 mm maximum diameter or (1) flex-tube 12-16 mm"	FACT-ACCCTUMLT	760239898
FACT Fiber Cable Termination Unit (CTU) For (1) fiber cable 15 mm maximum diameter or (1) flex-tube 12-16 mm (for splicing)	FACT-ACCCTUMLT	760239898
C-Cable Clamp, 1 cable, 8-12 mm OD	FIST-GR2-CAA-1-8/12	CK8121-000
C-Cable Clamp, 2 cables, 12-16 mm OD	FIST-GR2-CAA-2-12/16	F55585-000
C-Cable Clamp, 2 cables, 16-22 mm OD	FIST-GR2-CAA-2-16/22	C29771-000
C-Cable Clamp, 3 cables, 12-16 mm OD	FIST-GR2-CAA-3-12/16	D88793-000
C-Cable Clamp, 3 cables, 16-22 mm OD	FIST-GR2-CAA-3-16/22	F56920-000
Flex Tubing (length of 50 meters) Inner diameter 12 mm, outer diameter 16 mm protects loose tubes up to a bundle of 12 mm	FIST-GS-FLEX-12-50	E43826-000

Review System Selection Entrance Splicing 19″ here.

FACT Splice-Patch Chassis

- Preterminated with pigtails
- Enables splicing of OSP or ISP cables directly on the frame with no loss of density
- Available with SC or LC preterminated connections
- High-density chassis accommodates 24 SC or 48 single LC connections per FACT element
- Uses the EIA/TIA 598 color-coding standard



FACT — 1 XX 2 X HP 3 XX 4 X

1 Element count	
1E	One element
2E	Two elements
3E	Three elements
4E	Four elements
5E	Five elements
6E	Six elements

2 Patch cord side	
L	Left-hand patch
R	Right-hand patch

3 Adaptor/connector types, part count	
L1	LC UPC, C-grade, 48 single LC ports per element
L4	LC OM4, 48 single LC ports per element

4 Splice holder/protector (included)	
S	SMOUV
A	ANT

FACT Splice Chassis

- Multipurpose splice shelf
- Features up to 96 ANT splices or 72 SMOUV splices per FACT element

FACT — 1 XX SPL 2 XXX

1 Element count	
1E	One element
2E	Two elements
3E	Three elements
4E	Four elements

2 Tray types	
A12	12 ANT splices
S12	12 SMOUV splices

Number of trays per FACT chassis		
	A12	S12
1E	8 = 96 splices	6 = 72 splices
2E	16 = 192 splices	12 = 144 splices
3E	24 = 288 splices	18 = 216 splices
4E	32 = 384 splices	24 = 288 splices

FiberGuide® System

4″x6″ FiberGuide System

Description	Part Number	
4x6 Horizontal Straight Section, 6′ long, yellow	FGS-MSHS-B	
4x6 Horizontal Stack Storage Section, yellow	FGS-MSHS-STOR-B	
4x6 Horizontal T, yellow	FGS-MHRT-B	
4x6 Horizontal Cross, yellow	FGS-MHXP-B	
4x6 Horizontal Elbow 90°, yellow	FGS-MH9E-B	
4x6 Down Spout, yellow	FGS-MDSP-B	
4x6 Trumpet Flare, yellow	FGS-MTRM-B	
4x6 Down Elbow 45°, yellow	FGS-MD4E-B	
4x6 Up Elbow 45°, yellow	FGS-MU4E-B	
4x6 Junction	FGS-MFAW-B	
4x6 End Cap, black	FGS-HMEC-B	

4″x6″ Supports

Description	Part Number	
L Bay Support Bracket	FGS-HLBK	
Center Support Bracket Kit (xx = size: 1/2″, 5/8″, 12 mm, 14 mm, 16 mm)	FGS-HTUB-XX	
Top Support C-Bracket Kit (xx = size: 1/2″, 5/8″, 12 mm, 14 mm, 16 mm)	FGS-HNTS-XX	
Unistrut Kit; 10 Quick Knob T-Bolt	FGS-ACC532	

Express Exits

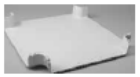
Description	Part Number	
4″ Express Exit with 4x4 exit opening, yellow	FGS-MEXP-E-A/B/F	
2″ Low Profile Express Exit with 2x2 exit opening, yellow	FGS-MEXP-LP-A/B/F	
2x2 Trumpet Flare for 2″ Express Exits, yellow	FGS-MTRM-C	
Single 2″ Flex Tube Attachment 2″ flex tube and 2x2 junction to attach to Express Exit		
5′ length	FGS-MEX1-C-5F	
10′ length	FGS-MEX1-C-10F	
15′ length	FGS-MEX1-C-15F	

Note: For additional FiberGuide products, see online catalog available here.

4″x12″ FiberGuide System

Description	Part Number	
4x12 Horizontal Straight Section, 6′ long, yellow	FGS-MSHS-F	
4x12 Horizontal Slack Storage Section, yellow	FGS-MSHS-STOR-F	
4x12 Horizontal T, yellow	FGS-MHRT-F	
4x12 Horizontal Cross, yellow	FGS-MHXP-F	
4x12 Horizontal Elbow 90°, yellow	FGS-MH9E-F	
4x12 Down Spout, yellow	FGS-MDSP-F	
4x12 Trumpet Flare, yellow	FGS-MTRM-F	
4x12 Horizontal Cross with two 6" exit, yellow	FGS-MHXP-B/F	
4x12 Down Elbow 45°, yellow	FGS-MD4E-F	
4x12 Up Elbow 45°, yellow	FGS-MU4E-F	
4x12 Junction	FGS-MFAW-F	
4x12 End Cap	FGS-HMEC-F	
Trapeze Bracket Kit (xx = size: 1/2″, 5/8″, 12 mm, 14 mm, 16 mm)	FGS-HNTP-F-XX	

4″x24″ FiberGuide System

Description	Part Number	
4x24 Horizontal Straight Section, 6″ long, yellow	FGS-MSHS-H	
4x24 Horizontal T, with single 12″ exit, yellow	FGS-MHRT-H/F	
4x24 Horizontal T with three 24″ exits, yellow	FGS-MHRT-H	
4x24 Horizontal Cross, yellow	FGS-MHXP-H	
4x24 Horizontal Cross with dual 12″ exits	FGS-MHXP-F/H	
4x24 Horizontal Elbow 45°, yellow	FGS-MH4E-H	
4x24 Down Elbow 45°, yellow	FGS-MD4E-H	
4x24 Up Elbow 45°, yellow	FGS-MU4E-H	
4x24 Junction	FGS-MFAW-H	
4x24 End Cap	FGS-HMEC-H	
Threaded Rod Trapeze Bracket Kit for New, 5/8″	FGS-HNTP-H-5/8	

Note: For additional FiberGuide products, see online catalog available **here.**

System Selection DC Layout Using Reference Designs

MDA

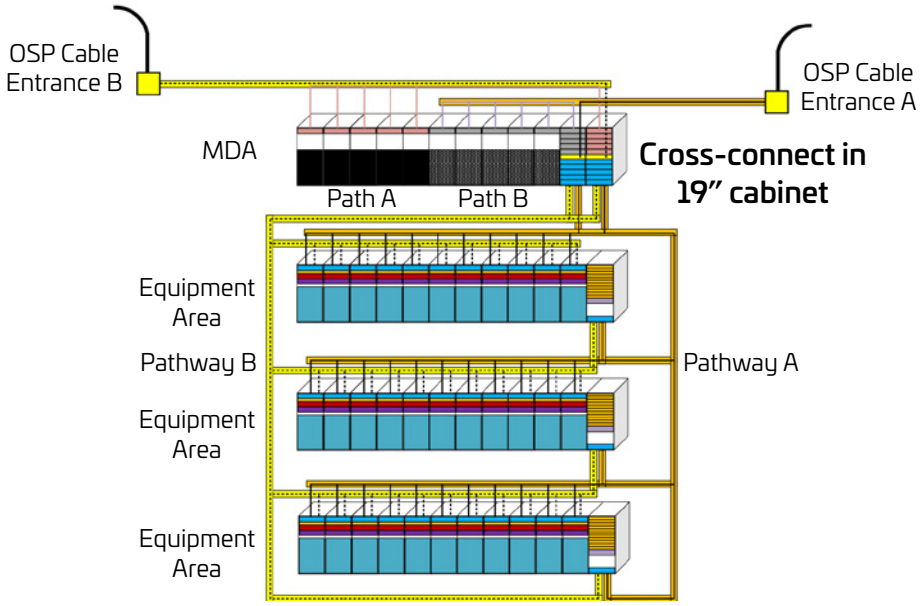
- Spine Switch, Router, etc.
- Enhanced High-Density Fiber Panels

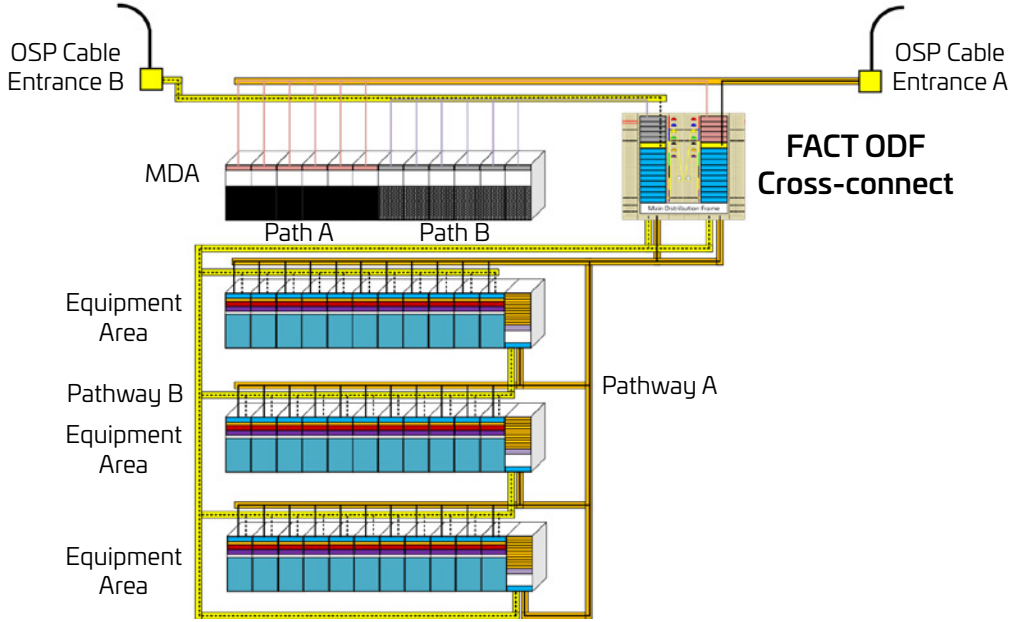
EDA

- Out of band switch (located End of Row (EoR)
- Leaf Switch (ToR) Top of Rack
- Servers within cabinets
- High-density fiber panels
- A & B patching to server

FiberGuide

- Redundant separate overhead pathways for A-B back-up





Select a section for more information.

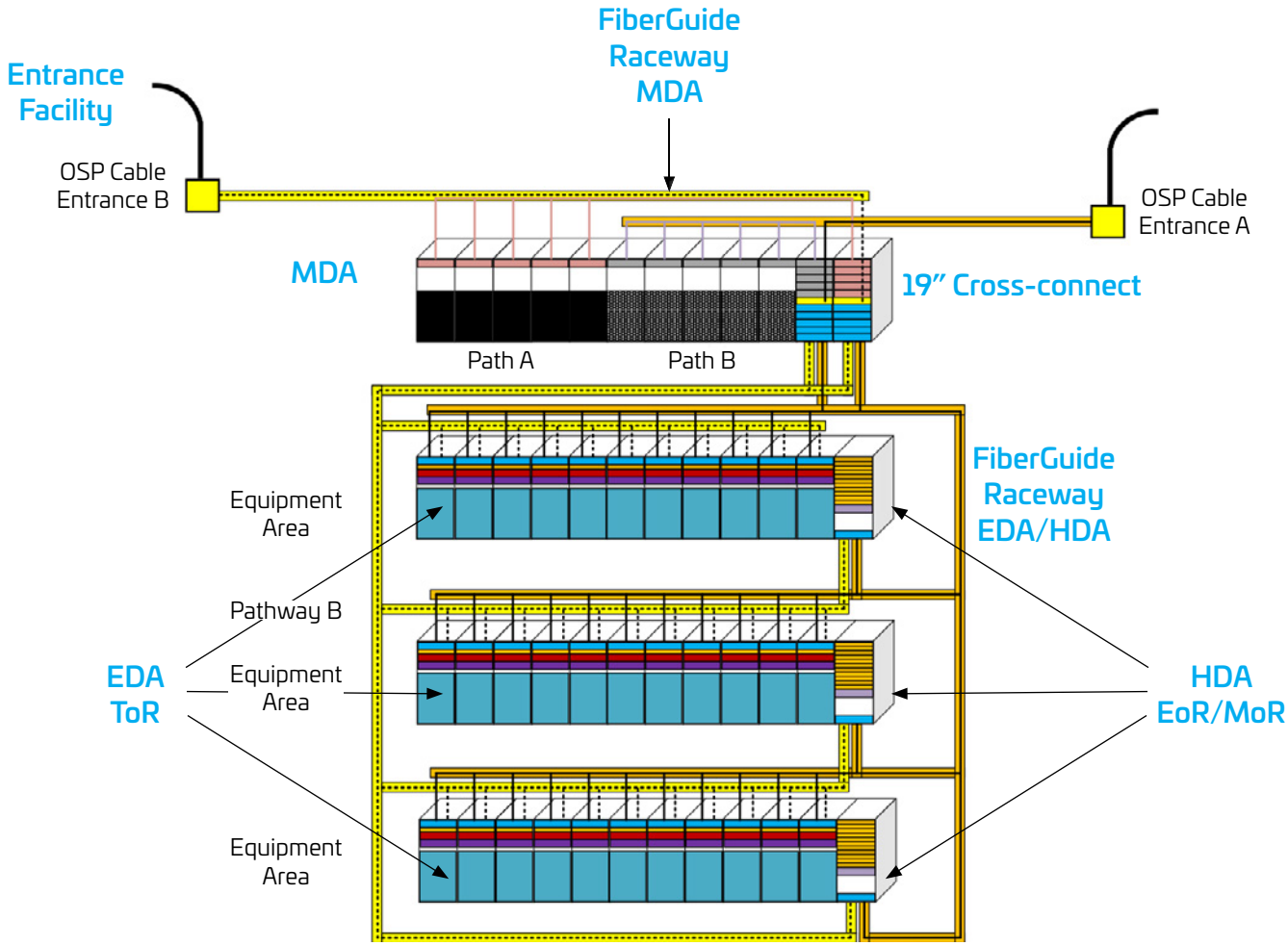
MDA Cabinet Path B
Fiber Panel B
Spine Switch B

MDA Cabinet Path A
Fiber Panel A
Spine Switch A

Equipment Cabinet
Fiber Panel to MDA
Copper Panel to EoR
Leaf Switch A
Leaf Switch B
Servers

19″ Cross-connect Path B
19″ Cross-connect Path B

EoR Cabinet for OoB
Copper Panel to Equipment Cabinet
OoB Switch



Select a section for more information.

MDA Cabinet Path B

Fiber Panel B

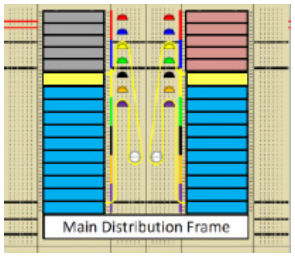
Spine Switch B

MDA Cabinet Path A

Fiber Panel A

Spine Switch A

Path B Path A



FACT ODF Cross-connect

Equipment Cabinet

Fiber Panel to MDA

Copper Panel to EoR

Leaf Switch A

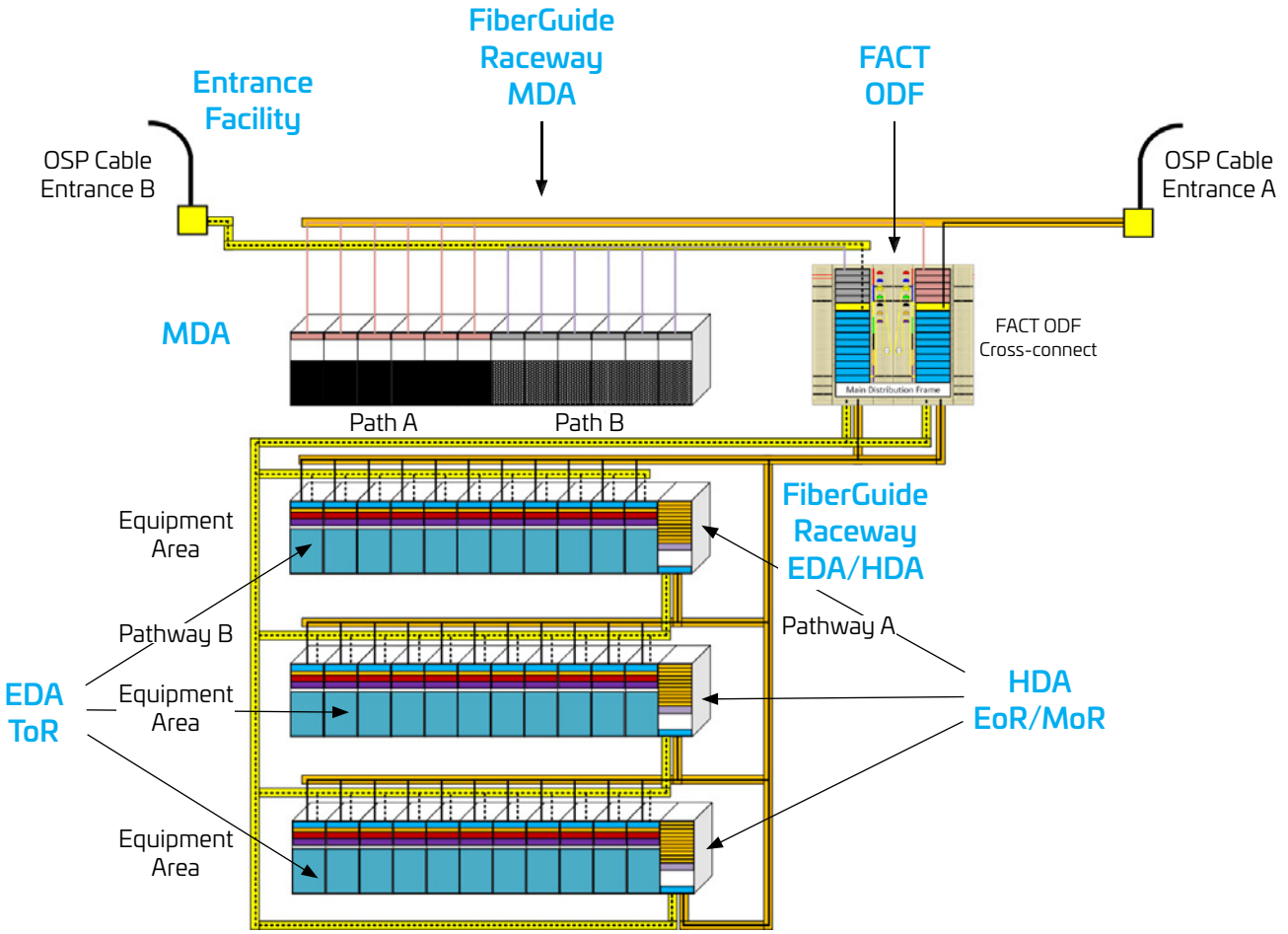
Leaf Switch B

Servers

EoR Cabinet for OoB

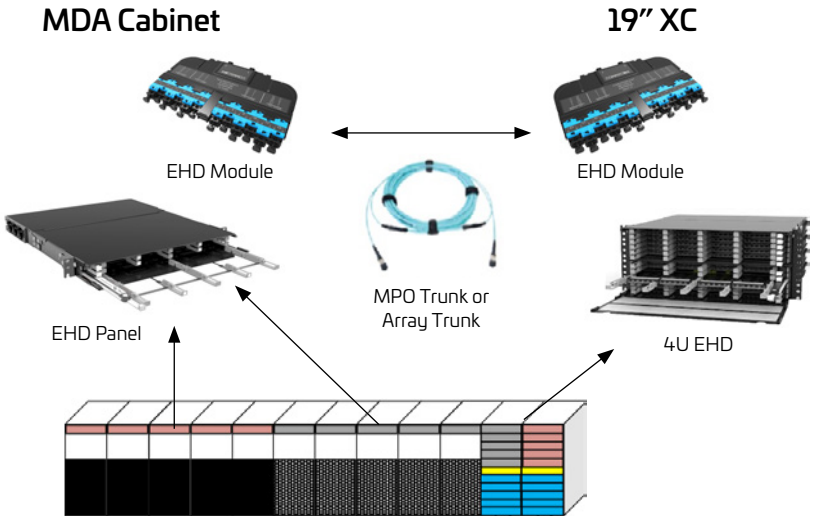
Copper Panel to Equipment Cabinet

OoB Switch

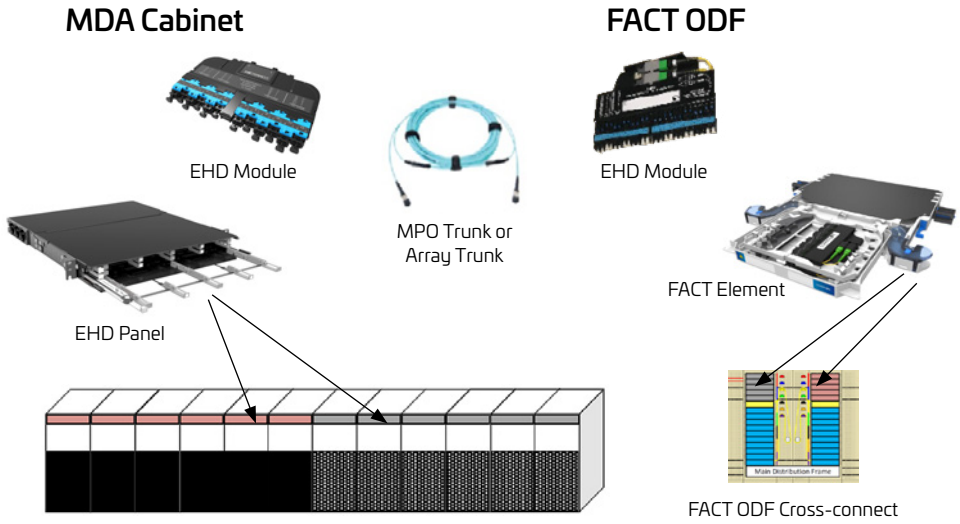


Select a part for more information.

MDA Cabling Channel 19″ XC



MDA Cabling Channel ODF XC



Review System Selection Fiber Pre-terminated 19″ here.

MDA Cabinet Path B

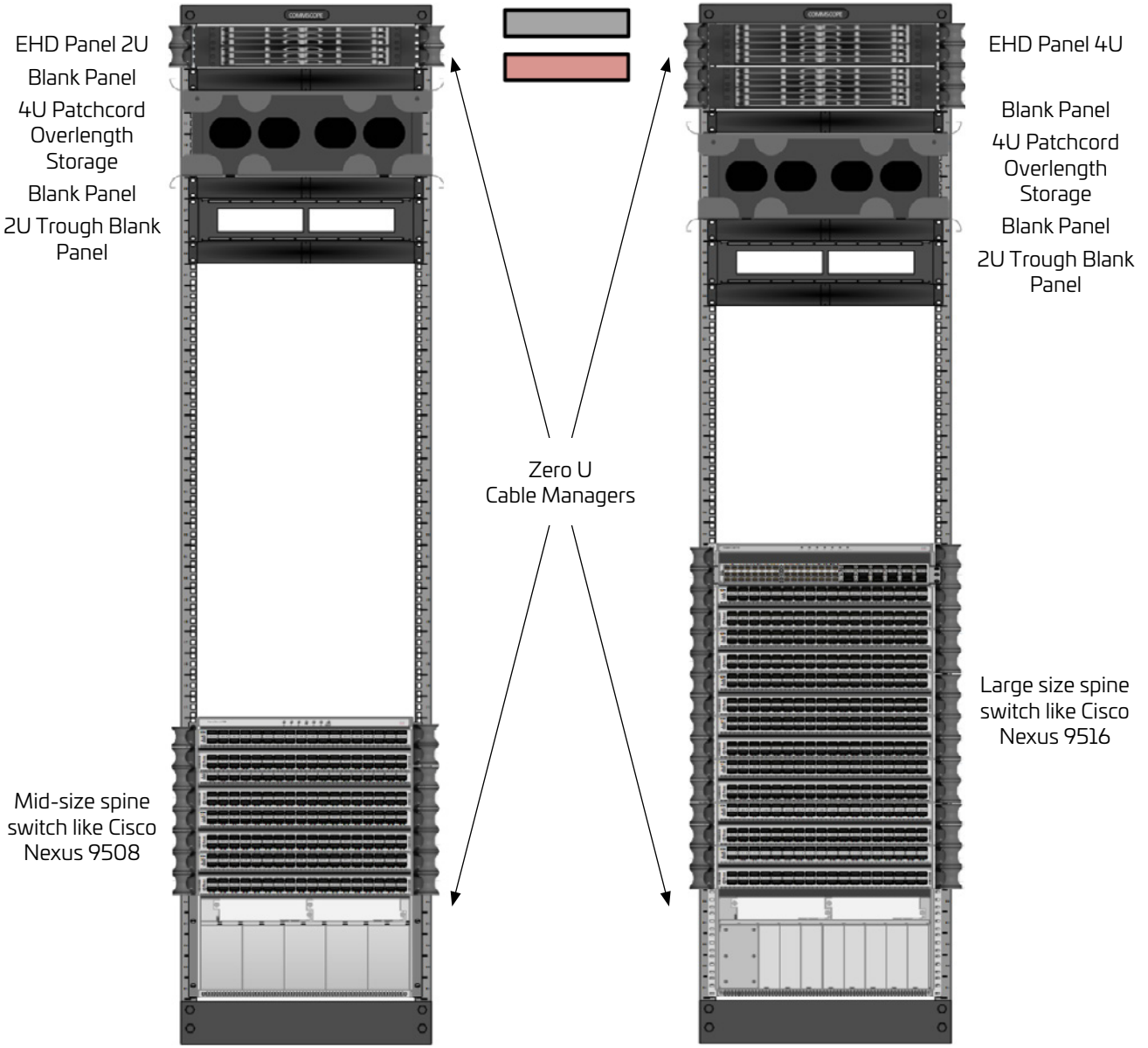
Fiber Panel B

Spine Switch B

MDA Cabinet Path A

Fiber Panel A

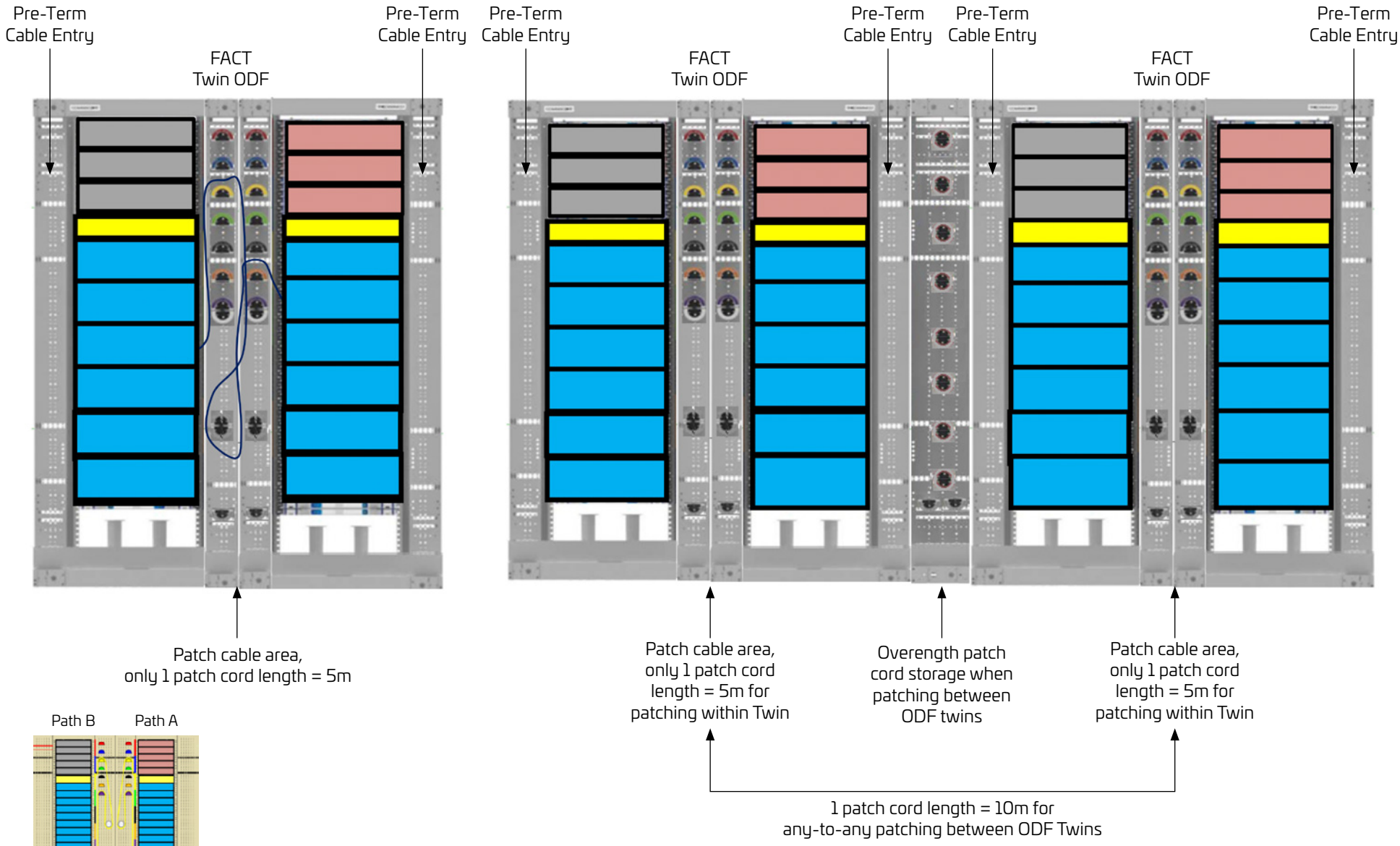
Spine Switch A

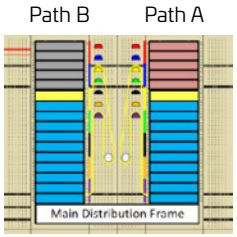


Reference Design for Mid-size Spine Switch

Reference Design for Large Size Spine Switch

Review System Selection Fiber Pre-terminated FACT here.





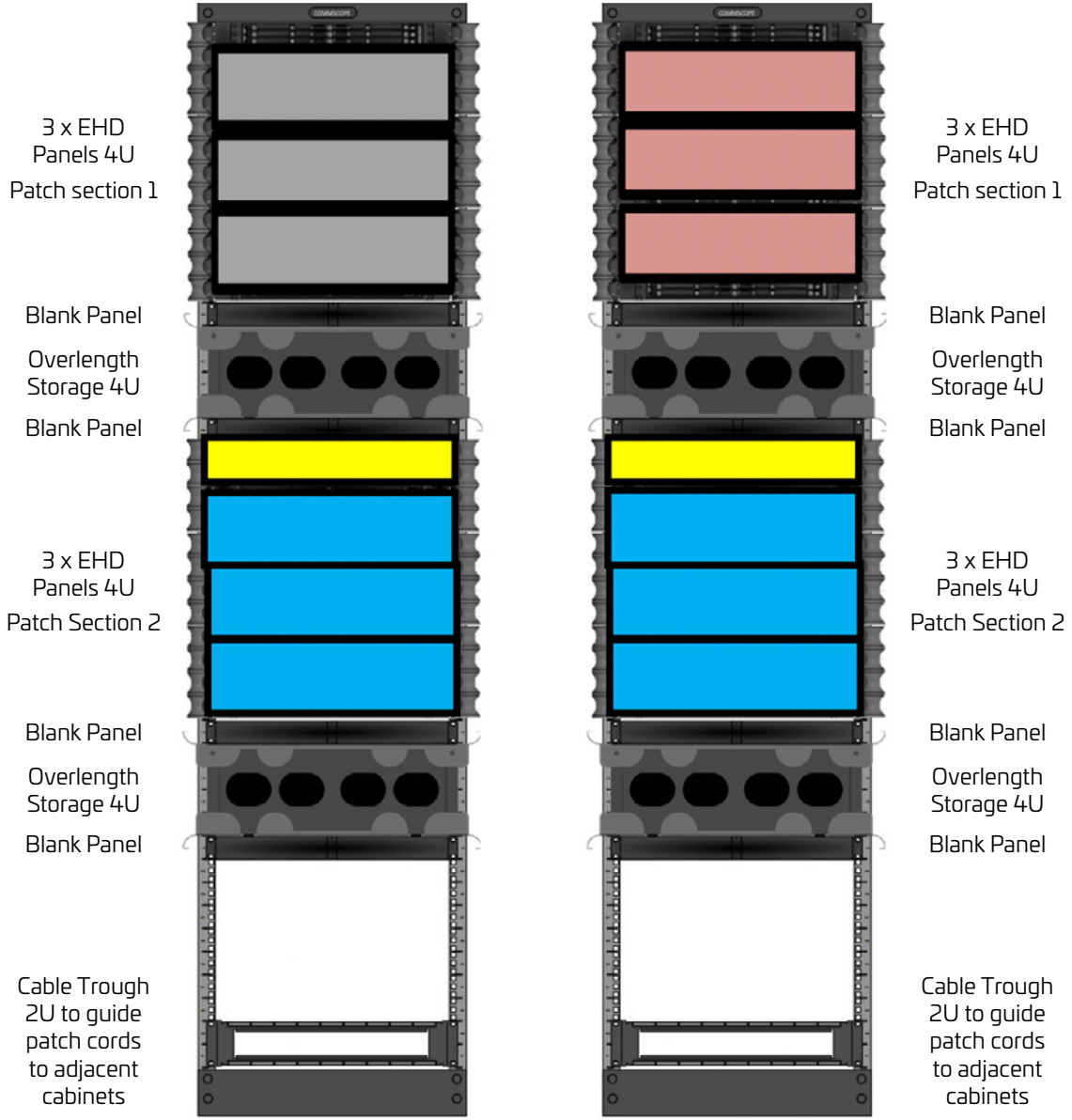
FACT ODF Cross-connect

Note: The XC can consist of more than 4 cabinets depending on the DC size.

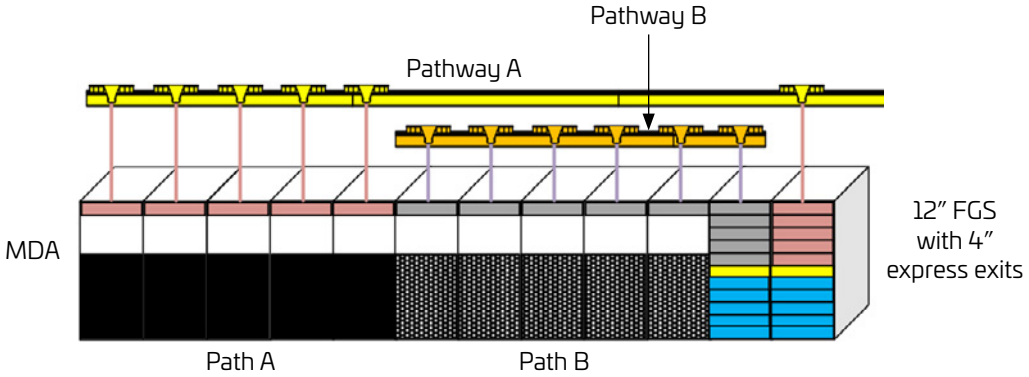
Review System Selection Fiber Pre-terminated 19″ here.

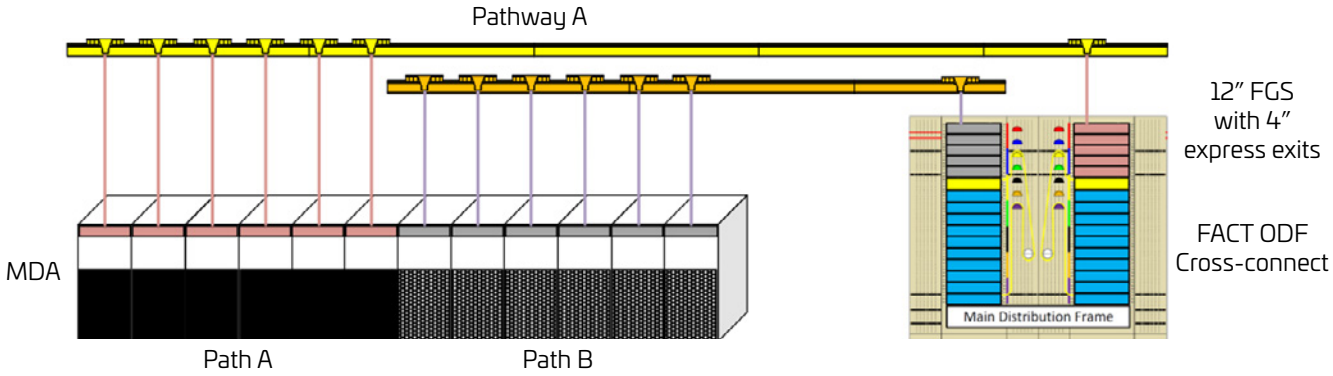
19″ Cross-connect Path B

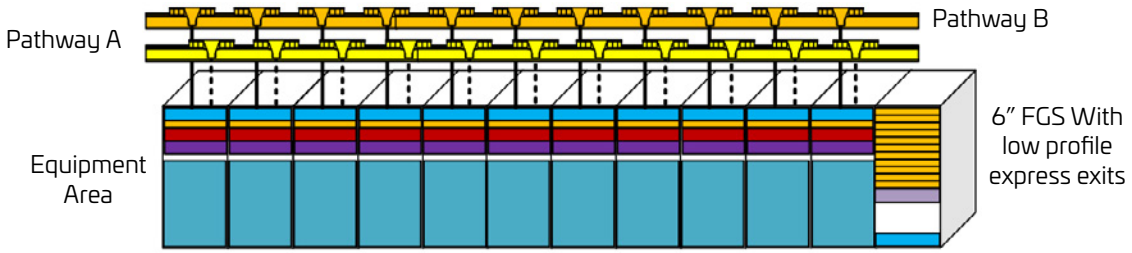
19″ Cross-connect Path B

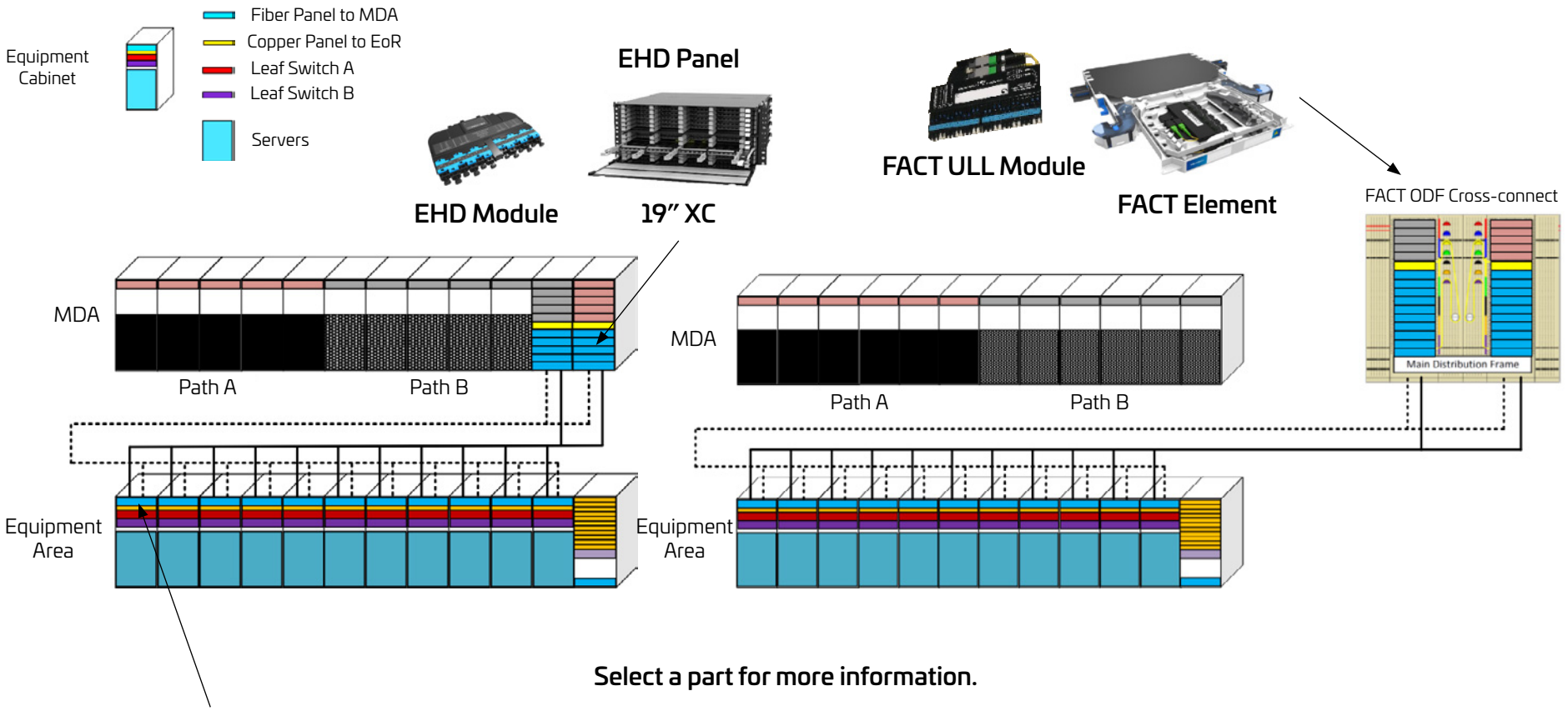


Review the FiberGuide here.

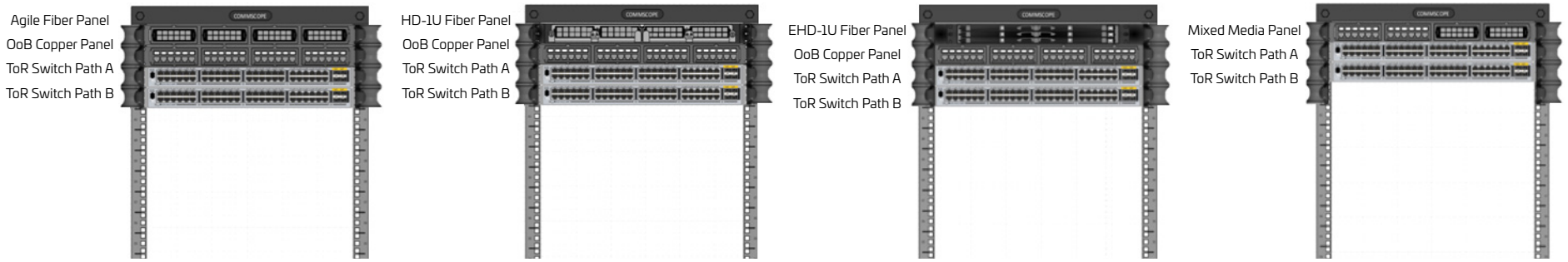






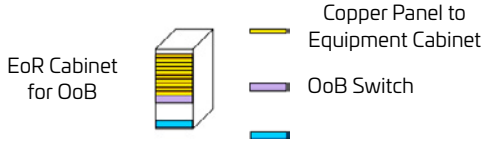


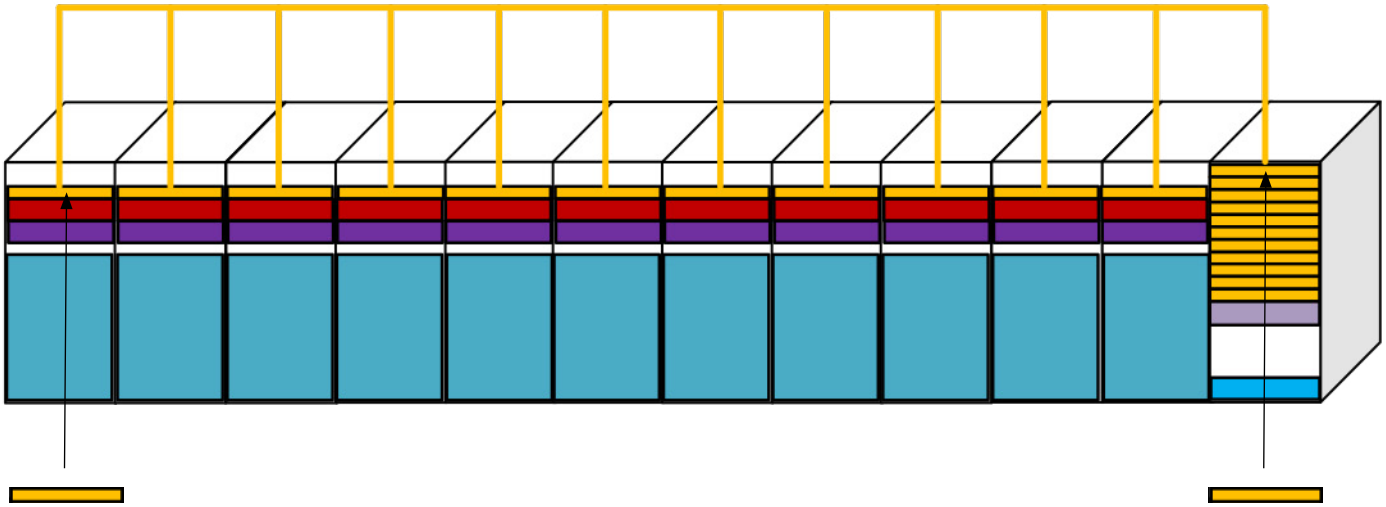
Select a part for more information.



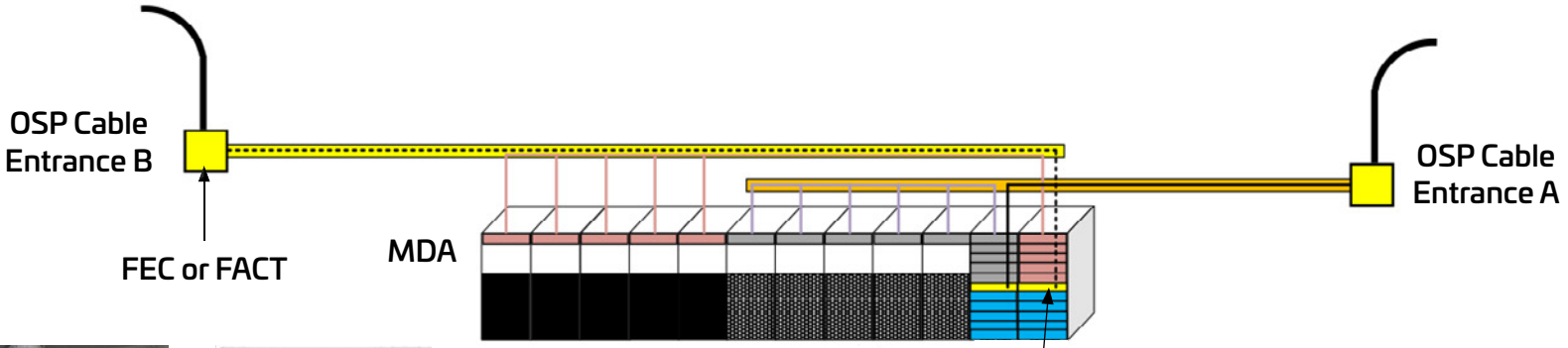
Fiber Basic | Fiber HD | Fiber Enhanced HD | Mixed Media Basic

Review System Selection Copper Pre-terminated Cat6A here.

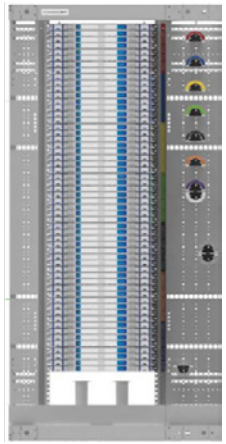




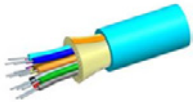
Review Entrance Splicing Systems here.



FEC Splice Solution, wall mounted

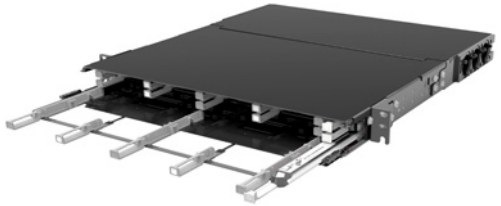


FACT Splice Solution for GR3 ODF



Fiber Cable

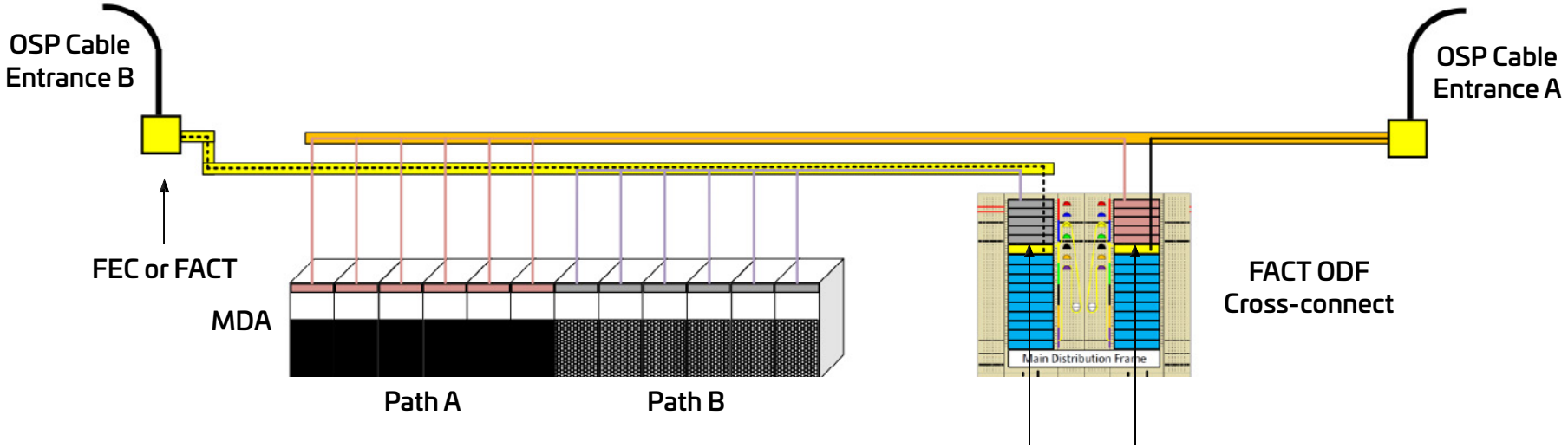
EHD Splice Module



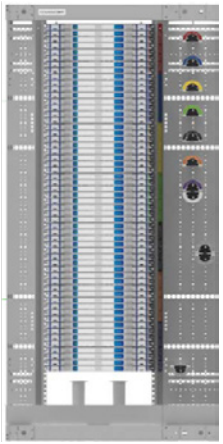
EHD Panel

Patch Cord

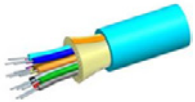
Review Entrance Splicing Systems here.



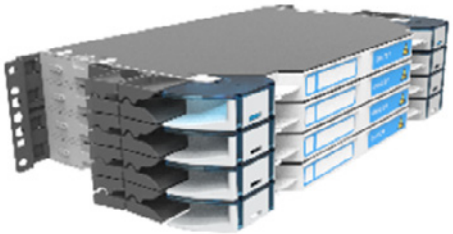
FEC Splice Solution, wall mounted



FACT Splice Solution for GR3 ODF



Fiber Cable



Patch Cord

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