

Data Center Connectivity Guide

WHAT APPLICATIONS WILL YOU BE RUNNING?

- 10/25/50GBASE-SR
- 40/100GBASE-SR4
- 40/100 Gb BiDi
- 16/32/64/128GB Fibre Channel
- 40/100GBASE-LR4
- 10GBASE-LR
- 400GBASE-SR4, 400GBASE-SR4.2 BiDi

WHAT FIBER TYPE ARE YOU LOOKING FOR?

Multimode

- OM3 50/125µm
- OM4 50/125µm
- OM4+ 50/125µm (Signature Core™ Fiber Optic Cabling System)

Singlemode

- OS2 9/125µm

WHAT POLARITY METHOD WILL YOU DEPLOY?

- Method A
- Method B
- Universal

WHAT LEVEL OF PERFORMANCE ARE YOU LOOKING FOR IN YOUR CABLE ASSEMBLIES?

Maximum Insertion Loss (per mated pair)

- Standard Singlemode MPO .75dB
- Standard Singlemode LC .35dB
- Optimized Multimode MPO .35dB
- Optimized Multimode LC .15dB
- Ultra Multimode MPO .25dB
- Ultra Multimode LC .10dB

WHAT WILL YOUR LINK/CHANNEL LOOK LIKE?

- Longest length?
- How many cassettes or FAP's?
- Will there be a cross connect? How many?
- How many patch cords will each link require?
- How long are your patch cords?

WHAT FIBER DENSITY ARE YOU LOOKING FOR?

- HD Flex™ Fiber Cabling System 144 LC Fibers Per 1 RU, available in 1 RU, 2 RU, and 4 RU
- QuickNet™ SFQ System 96 Fibers Per 1 RU
- Opticom® Fiber System 96 Fibers Per 1 RU, available in 1 RU, 2 RU (192 Fibers), and 4 RU (288 Fibers)

KEY SYSTEM FEATURES:

HD Flex Fiber Cabling System

- Highest port density, maximizes real estate usage

QuickNet SFQ System

- Accepts copper and fiber, mounts in panel without an enclosure

Opticom Fiber System

- Traditional cassette design, most available connector spacing

Solutions represented throughout this guide apply to the most common configurations only.

Other configurations available.

Contact Panduit Customer Service for details at: 800-777-3300.

Reach Table

(Distances in meters)	Insertion Loss Budget 1.5dB			
	OM3	OM4	OM5	OM4+ Signature Core™
16G Fibre Channel	100	125	125	200
32G Fibre Channel	70	100	100	120
25GBASE-SR	70	100	100	125
Cisco 40G BiDi	100	135	150	200
40GBASE-SR4	100	125	125	165
50GBASE-SR	70	100	100	130
100GBASE-SR4	70	100	100	125
100G SWDM4	75	100	150	150
100GBASE-SR4.2 (BiDi)	70	100	100	150
400GBASE-SR8	70	100	100	130
400GBASE-SR4.2 (BiDi)	70	100	150	150
800GBASE-SR8	70	100	100	150
800G-SR4.2 (BiDi)	45	70	100	100
1.6Tb-SR4.2 (BiDi)	45	70	100	100

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Fiber Standards

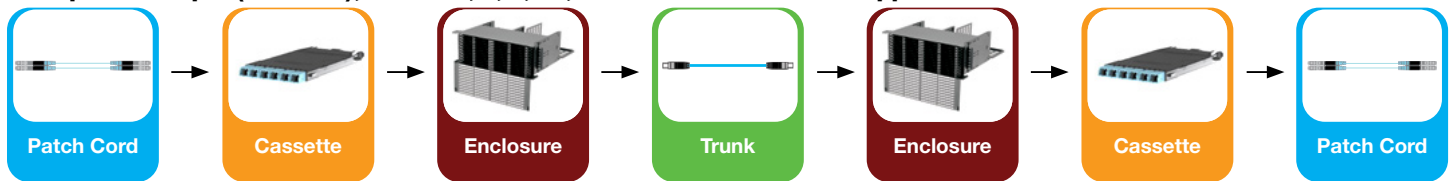
Laser-Optimized OM3, OM4 multimode fibers meet domestic and international standards. Signature Core Fiber Optic Cabling System exceeds domestic and international standards for optical fiber. This includes TIA-492AAAF and IEC 60793-2-10 and supports a diverse set of legacy and contemporary applications including Ethernet, Fibre Channel, Infiniband, and FICON (Fiber Connection), among others.

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Connectivity Solution

1. Choose your connectivity application solution (A, B, or C) below.
2. Build your chosen solution from components on pages 3, 4, and 5.

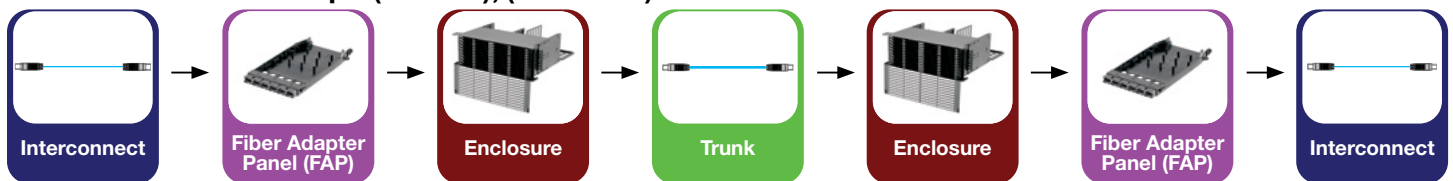
A. Duplex Example (10G-10G), 40G BiDi, 4, 8, 16, 32G Fibre Channel SAN App



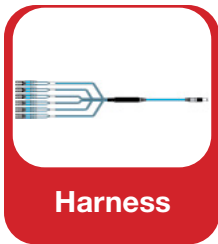
B. Parallel to Duplex Example (40G-10G), (100G-10G), (100G-40G), (128G-32G)



C. Parallel to Parallel Example (40G-40G), (100G-100G)



Harnesses/Patch Cords - Choose Your Harness & Patch Cords



Harnesses*	12 Fiber Plenum, Female PanMPO Connector to LC (Push-Pull or Uniboot) (24" equal breakout)
Part Number	Description
FZTRP7NQSONF010	OM4 Female PanMPO Connector to LC Push-Pull Optimized IL - 10'
FZTRP7NUSONF010	OM4 Female PanMPO Connector to LC Uniboot Optimized IL - 10'
FXTRP7NQSONF010	OM3 Female PanMPO Connector to LC Push-Pull Optimized IL - 10'
FXTRP7NUSONF010	OM3 Female PanMPO Connector to LC Uniboot Optimized IL - 10'
F9TRP5NQSSNF010	OS2 Female MPO to LC Push-Pull, Standard IL - 10'

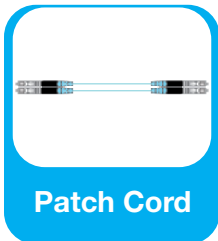
Harnesses*	8 Fiber Plenum, 4 to 1 Conversion Harnesses, Female PanMPO Connector to LC (Push-Pull) (24" equal breakout)
Part Number	Description
FZ8RP7NQSVNF010	OM4 Female PanMPO Connector to LC Push-Pull Optimized IL - 10'
FZ8RP7NUSVNF010	OM4 Female PanMPO Connector to LC Uniboot Optimized IL - 10'
FX8RP7NQSVNF010	OM3 Female PanMPO Connector to LC Push-Pull Optimized IL - 10'
FX8RP7NUSVNF010	OM3 Female PanMPO Connector to LC Uniboot Optimized IL - 10'
F98RP5NQSQNF010	OS2 Female MPO to LC Push-Pull, Standard IL - 10'

*For male PanMPO Connector, change "7" in position 6 to "8"

For male MPO, change "5" in position 6 to "6"

**To change from LC Push-Pull to Uniboot connector, change the "Q" in position 8 to a "U"

Available in lengths from 3 ft. to 30 ft.



Patch Cords	Duplex Fiber Patch Cords
Part Number	Description
FZ2ERLNLNSNM001*	2 Fiber 1.6mm Patch cord, Riser, LC Duplex to LC Duplex, Standard Polarity, Standard Insertion Loss – 1 Meters
FZ2RP1U1ONM001*	OM4, 2 Fiber 2mm Patch cord, Plenum, LC Duplex Uniboot UPC to LC Duplex Uniboot UPC, Standard Polarity, Optimized Insertion Loss – 1 Meters
F92ERLNLNSNM001*	OS2, 2 Fiber 1.6mm Patch cord, Riser, LC Duplex to LC Duplex, Standard Polarity, Standard Insertion Loss – 1 Meters
F92RP1U1ONM001*	OS2, 2 Fiber 2mm Patch cord, Plenum, LC Duplex Uniboot UPC to LC Duplex Uniboot UPC, Standard Polarity, Optimized Insertion Loss – 1 Meters

*Available from 001 to 050m, in 1m increments

Cassettes - Choose Your System Solution



Cassette

HD Flex Fiber Cabling System

- Has the capacity to do 144 LC Fibers in 1 RU, 288 Fibers in 2 RU, and 576 in 4 RU
- Maximizes real estate usage

HD Flex Fiber Cabling System			
Part Number	Description	Part Number	Description
HD Flex 12 Fiber Cassette MPO to LC Duplex		HD Flex Cassette (2) 12F MPO to 12 LC Duplex	
FHCZO-12-10U	OM4, Universal Polarity, Optimized IL	FHCZO-24-10U	OM4, Universal Polarity, Optimized IL
FHCXO-12-10U	OM3, Universal Polarity, Optimized IL	FHCXO-24-10U	OM3, Universal Polarity, Optimized IL
FHC9N-12-10AS	OS2, Method A, Standard IL	FHC9N-24-10AS	OS2, Method A, Standard IL
FHC9N-12-10AF	OS2, Method A, pair flipped, Standard IL	FHC9N-24-10AF	OS2, Method A, pair flipped, Standard IL
HD Flex 4 to 1 Conversion Cassette; 1 MPO to 4 LC Duplex (parallel to duplex optics)		HD Flex Cassette (1) 24F MPO to 12 LC Duplex	
FHC3ZO-08-10BN	OM4, Method B, Optimized IL	FHCZO-24F-10AS	OM4, Method A, Universal, Optimized IL
FHC3XO-08-10BN	OM3, Method B, Optimized IL	FHCXO-24F-10AS	OM3, Method A, Universal, Optimized IL
FHC39N-08-10AN	OS2, Method A, Standard IL	FHC9N-24F-10AS	OS2, Method A, Universal, Standard IL
HD Flex LC Splice Cassette, 6 LC Duplex, Preloaded with Fiber			
FHSZO-12-10P*	OM4, Optimized IL		
FHSXO-12-10P*	OM3, Optimized IL		
FHS9N-12-10P*	OS2, Standard IL		

*Change "P" for Pigtails to "R" for Ribbon Fiber



Cassette

QuickNet SFQ System

- Has the ability to do 96 Fibers in 1 RU
 - Has no enclosures in its solution
 - Has the ability to do both Fiber and copper in the same patch panel
- See copper on the back page.

QuickNet SFQ System			
Part Number	Description	Part Number	Description
QuickNet SFQ 12 Fiber Cassette; MPO to LC Duplex		QuickNet SFQ 4 to 1 Conversion Cassette; 1 MPO to 4 LC Duplex (parallel to duplex optics)	
FQZO-12-10U	OM4, Method B, Universal, Optimized IL	FQ3ZO-08-10B	OM4, Optimized IL
FQXO-12-10U	OM3, Method B, Universal, Optimized IL	FQ3XO-08-10B	OM3, Optimized IL
FQ9N-12-10AS	OS2, Method A, Standard IL	FQ39N-08-10A	OS2, Optimized IL
FQ9N-12-10AF	OS2, Method A, pair flipped, Standard IL		

Opticom Fiber System			
Part Number	Description	Part Number	Description
Opticom 12 Fiber, MPO to LC Duplex		Opticom 24 Fiber, (2) 12F MPO to LC Duplex	
FC2ZO-12-10U	OM4, Method B, Universal Polarity, Optimized IL	FC2ZO-24-10U	OM4, Method B, Universal Polarity, Optimized IL
FC2XO-12-10U	OM3, Method B, Universal Polarity, Optimized IL	FC2XO-24-10U	OM4, Method A, pair flipped, Optimized IL
FC29N-12-10AS	OS2, Method A, Standard IL	FC29N-24-10AS	OM3, Method A, Optimized IL
FC29N-12-10AF	OS2, Method A, pair flipped, Standard IL	FC29N-24-10AF	OM4, Method B-B2 (1-12 array), Optimized IL
Opticom 4 to 1 Conversion Cassette; 2 MPO to 8 LC Duplex (parallel to duplex optics)			
FC3ZO-16-10B	OM4, Method B, Optimized IL		
FC3XO-16-10B	OM3, Method B, Optimized IL		



Cassette

Opticom Fiber System

- Has the ability to do 96 Fibers in 1 RU, 192 Fibers in 2 RU, and 288 Fibers in 4 RU
- Allows the user to have more space to work with

Splice Cassettes*			
Part Number	Description	Part Number	Description
Opticom LC Splice Cassette, 6 LC Duplex, Preloaded with Fiber		Opticom SC Splice Cassette, 6 SC Duplex, Preloaded with Fiber	
FCSZO-12-10P*	OM4, Optimized IL	FCSZO-12-03P*	OM4, Optimized IL
FCS9N-12-10P*	OS2, Standard IL	FCS9N-12-SAP*	OS2, SC/APC, Standard IL
FCS9N-12-LAP*	OS2, LC/APC, Standard IL		

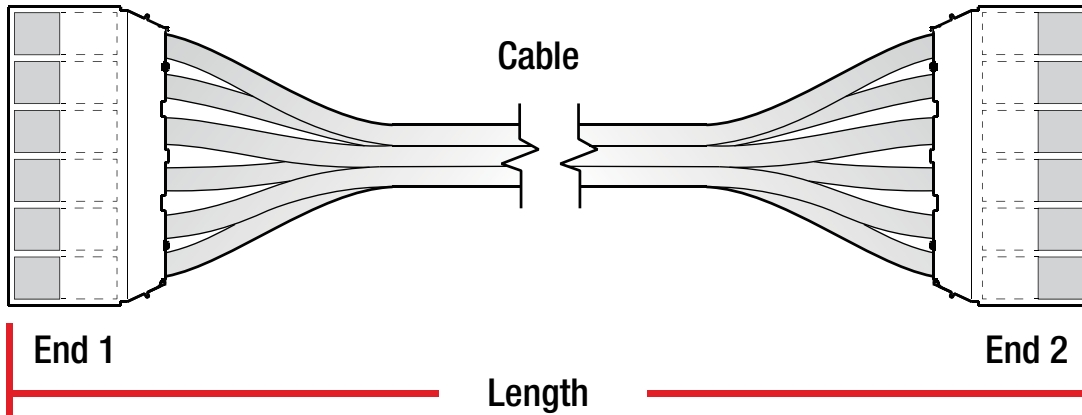
*Change "P" for Pigtails to "R" for Ribbon Fiber

QuickNet Copper Trunks

► Configure Copper QuickNet part numbers in our online tool

Selection Guide for QuickNet Cable Assembly Semi-Custom Part Numbers

Example: QCPBCCB0001F010 - QuickNet Cable Assembly, Category 6 Plenum, Blue Cable, UTP, Cassette to Cassette, 10'.



UTP Cassette



UTP Jack Modules



UTP Modular Plugs



Unterminated

	Part Number Series	Copper QuickNet Trunk Assembly Descriptions
Category 6 Riser	QCRBCCB0001F***	Category 6, UTP riser blue cable with blue cassette to blue cassette
	QCRBCJB0001F***	Category 6, UTP riser blue cable with blue cassette to blue jack
	QCRBCPB0001F***	Category 6, UTP riser blue cable with blue cassette to plug
	QCRBCUB0001F***	Category 6, UTP riser blue cable with blue cassette to unterminated
Category 6 Plenum	QCPBCCB0001F***	Category 6, UTP plenum blue cable with blue cassette to blue cassette
	QCPBCJB0001F***	Category 6, UTP plenum blue cable with blue cassette to blue jack
	QCPBCPB0001F***	Category 6, UTP plenum blue cable with blue cassette to plug
	QCPBCUB0001F***	Category 6, UTP plenum blue cable with blue cassette to unterminated
Category 6A Riser	QZRBCCB0001F***	Category 6A, UTP Vari-MaTriX riser blue cable with blue cassette to blue cassette
	QZRBCJB0001F***	Category 6A, UTP Vari-MaTriX riser blue cable with blue cassette to blue jack
	QZRBCPB0001F***	Category 6A, UTP Vari-MaTriX riser blue cable with blue cassette to plug
	QZRBCUB0001F***	Category 6A, UTP Vari-MaTriX riser blue cable with blue cassette to unterminated
Category 6A Plenum	QZPBCCB0001F***	Category 6A, UTP Vari-MaTriX plenum blue cable with blue cassette to blue cassette
	QZPBCJB0001F***	Category 6A, UTP Vari-MaTriX plenum blue cable with blue cassette to blue jack
	QZPBCPB0001F***	Category 6A, UTP Vari-MaTriX plenum blue cable with blue cassette to plug
	QZPBCUB0001F***	Category 6A, UTP Vari-MaTriX plenum blue cable with blue cassette to unterminated

*** = Length in Feet from 010 to 295

Fiber Adapter Panels (FAPs)



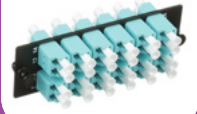
Fiber Adapter Panel



Fiber Adapter Panel



Fiber Adapter Panel



Fiber Adapter Panel

HD Flex Fiber Cabling System

Part Number	Description
HD Flex LC FAP with 6 LC Duplex Adapters	
FHSXN-12-10N	Multimode adapters, Aqua, zirconia sleeves (LC Pigtailed not included)
FHS9N-12-10N	Singlemode adapters, Blue, zirconia sleeves (LC Pigtailed not included)
HD Flex MPO FAP Cassettes	
FHMP-6-ABL	6 MPO adapters, Black, Method A
FHMP-6-BCG	6 MPO adapters, Charcoal Gray, Method B
FHMP-6-ARD	6 MPO adapters, Red, 24F MPO, Method A

QuickNet SFQ System

Part Number	Description
QuickNet SFQ MPO FAPs with 6 MPO Adapters	
FQMAP45BL	4 MPO adapters, Black, Method A
FQMAP65BL	6 MPO adapters, Black, Method A
FQMAP85BL	8 MPO adapters, Black, Method A
FQMAP46CG	4 MPO adapters, Charcoal Gray, Method B
FQMAP66CG	6 MPO adapters, Charcoal Gray, Method B
FQMAP86CG	8 MPO adapters, Charcoal Gray, Method B
FQMAP45RD	4 MPO adapters, Red, 24F MPO, Method A
FQMAP65RD	6 MPO adapters, Red, 24F MPO, Method A
FQMAP85RD	8 MPO adapters, Red, 24F MPO, Method A

Opticom Fiber System

Part Number	Description
Opticom MPO FAPs with 6 MPO Adapters	
FAPH**12BLMPO	FAP with ** MPO adapters, Black, Method A, horizontal
FAPV**12BLMPO	FAP with ** MPO adapters, Black, Method A, vertical
FAPH**12CGMPO	FAP with ** MPO adapters, Charcoal Gray, Method B
FAPH**24RDMPO	FAP with ** MPO adapters, Red, 24F MPO, Method A

**Insert 06, 12, or 18 for the number of MPOs required, ex: FAPH1212BLMPO

Part Number	Description
Opticom LC Duplex FAPs	
FAP6WAQDLCZ	6 Multimode adapters, Aqua, zirconia split sleeves
FAP12WAQDLCZ	12 Multimode adapters, Aqua, zirconia split sleeves
FAP6WBUDLCZ	6 Singlemode adapters, Blue, zirconia split sleeves
FAP12WBUDLCZ	12 Singlemode adapters, Blue, zirconia split sleeves
FAP6WAGDLCZ	6 Singlemode LC/APC adapters, Green, zirconia split sleeves
FAP12WAGDLCZ	12 Singlemode LC/APC adapters, Green, zirconia split sleeves



Enclosure

HD Flex Fiber Cabling System	
Part Number	Description
Enclosures	
FLEX*U04	*1, 2, or 4 RU Enclosure setup to accept 4-port cassettes
FLEX*U06	*1, 2, or 4 RU Enclosure setup to accept 6-port cassettes
FLEX*U12	*1, 2, or 4 RU Enclosure setup to accept 12-port cassettes



Panel

Part Number	Description
Panels	
FLEX*UPN04	*1, 2, or 4 RU, 4-Port HD Flex Panel
FLEX*UPN06	*1, 2, or 4 RU, 6-Port HD Flex Panel
FLEX*UPN12	*1, 2, or 4 RU, 12-Port HD Flex Panel



Enclosure

Part Number	Description
Under Floor Enclosures	
FLEX-ZRFEG	HD Flex Zone Raised Floor Enclosure, Gray

Part Number	Description
HD Fusion Enclosures	
FRMHSS-4RU	4 RU, HD fusion splicing enclosure
FWMHSSGS-3456	Wall mount splice enclosure, for up to 3456 ribbon fibers (Ribbon fibers not included)
FWMHSSGS-6912	Wall mount splice enclosure, for up to 6912 ribbon fibers (Ribbon fibers not included)

*Replace '**' with 1, 2, or 4 to order the appropriate RU version
(ex: FLEX1U06is a 1RU Enclosure setup to accept 6 port cassettes)



Panel

QuickNet SFQ System	
Part Number	Description
Enclosures	
QAPP24BL	QuickNet Patch Panel, angled, 24-Port, 1 RU
QAPP48HDBL	QuickNet Patch Panel, angled, 48-Port, 1 RU
QPP24BL	QuickNet Patch Panel, flat, 24-Port, 1 RU



Enclosure

Opticom Fiber System	
Part Number	Description
Enclosures	
FCE*U	Fiber cassette enclosure, * RU
FMT1	Rack mount fiber tray, 1 RU
FMT2	Rack mount fiber tray, 2 RU
FRME1U	Rack mount fiber enclosure, 1 RU for fusion splices



Panel

Part Number	Description
Panels	
CFAPPBL1	Fiber adapter panel, 1 RU, holds 4 FAP's
CFAPPBL2	Fiber adapter panel, 2 RU, holds 8 FAP's

*Replace '**' with 1, 2, or 4 to order the appropriate RU version



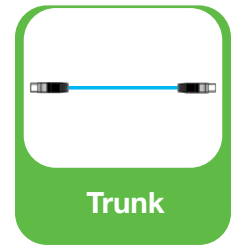
HD Flex Fiber Cabling System

Part Number	Description
Fiber Management Accessories	
FLEX-PLATE*U#	HD Flex Enclosure Trunk Slack Plate - *RU
FLEX-PLATE*UR%	HD Flex Enclosure Trunk Slack Plate with Rear Cover - *RU
FLEX-PLATE*UPR%	HD Flex Patch Panel Trunk Slack Plate with Rear Cover - *RU
FLEX-PLATE1UDWS	HD Flex Slack Plate Divider Wall with Slots (bulk pack of 100)
FLEX-FCM*UA#	HD Flex Front Cable Manager - *RU
FLEX-0RUBR04	HD Flex Zero RU Bracket, 4-Port (Includes 1 FLEX-0RUCH04)
FLEX-0RUBR06	HD Flex Zero RU Bracket, 6-Port (Includes 1 FLEX-0RUCH06)
FLEX-0RUBR12	HD Flex Zero RU Bracket, 12-Port (Includes 1 FLEX-0RUCH12)
FLEX-0RUCH04	HD Flex Zero RU Cassette Holder, 4-Port (For adding more cassettes to FLEX-0RUBR04)
FLEX-0RUCH06	HD Flex Zero RU Cassette Holder, 6-Port (For adding more cassettes to FLEX-0RUBR06)
FLEX-0RUCH12	HD Flex Zero RU Cassette Holder, 12-Port (For adding more cassettes to FLEX-0RUBR12)
FLEX-RCM*U#	HD Flex Rear Cable Manager - *RU
FLEX-OPTI-1RU	HD Flex Opticom Converter Bracket, 1RU
FLEX-SFQ	HD Flex adapter bracket for Quicknet SFQ panels
FLEX-RAIL04EN	HD Flex 4 port Enclosure rail kit, 1RU, 12 Rails, 36 Labels
FLEX-RAIL06EN	HD Flex 6 port Enclosure rail kit, 1RU, 6 Rails, 12 Labels
FLEX-RAIL04PN	HD Flex 4 port Panel rail kit, 1RU, 12 Rails
FLEX-RAIL06PN	HD Flex 6 port Panel rail kit, 1RU, 6 Rails
FLEX-BRK4U	HD Flex Bracket - For use with FLEX-RCM4U
FLEX-CLIP12	HD Flex Trunk Transition Clip (qty 2); 12-position
FLEX-CLIP18	HD Flex Trunk Transition Clip (qty 2); 18-position
FLEX-CM12S	HD Flex Universal Rear Cable Manager; 12-position transition manager (qty 2) with screw mount bracket
FLEX-CM18S	HD Flex Universal Rear Cable Manager; 18-position transition manager (qty 2) with screw mount bracket
FLEX-CM12C	HD Flex Universal Rear Cable Manager; 12-position transition manager (qty 4) and clip
FLEX-CM18C	HD Flex Universal Rear Cable Manager; 18-position transition manager (qty 4) and clip
FLEX-CM-1UB%	HD Flex Universal Expandable Cable Management Bracket
FLEX-CM-1UBKIT%	HD Flex Cable Management Universal Bracket -1RU
FHSBBL06W	HD Flex Blanking Panel, 6-Port
FQCBRUA	QuickNet Zero RU Bracket, Holds 2 QuickNet™ Cassettes or Adapters
FEABRU	Opticom® Zero RU Bracket, Holds 1 Opticom® Cassette or FAP
QPPABL	QuickNet Patch Panel Adapter, accepts Mini-Com® Modules
QPPBBL	QuickNet Patch Panel Blank
FQCRCM	QuickNet Cassette Rear Cable Manager (2 post rack only)
FOSMF	Fiber optic splice module for FRME Rack mount enclosures
FSC24	Splice chip, 24 position
FST6	Fiber splice tray - 6" (152mm)
FSTK	Fiber splice tray - 6 mechanical or fusion splices
FST24	Fiber splice tray - 24 mechanical or fusion splices
FST48	HD Fusion splice tray kit
FST144R	Tray for ribbon fiber splicing
FOSMH1U	Fiber optic splice module handler, 1 RU
FOSMH4U	Fiber optic splice module handler, 4 RU
FSTHS	Fiber splice tray holder - used with FSTK
FMS1	Fiber management slack spool kit (2 per bag)
HLS-75R0	Hook & Loop roll, 75'L (22.9m), 0.75"W (19.1mm), Black

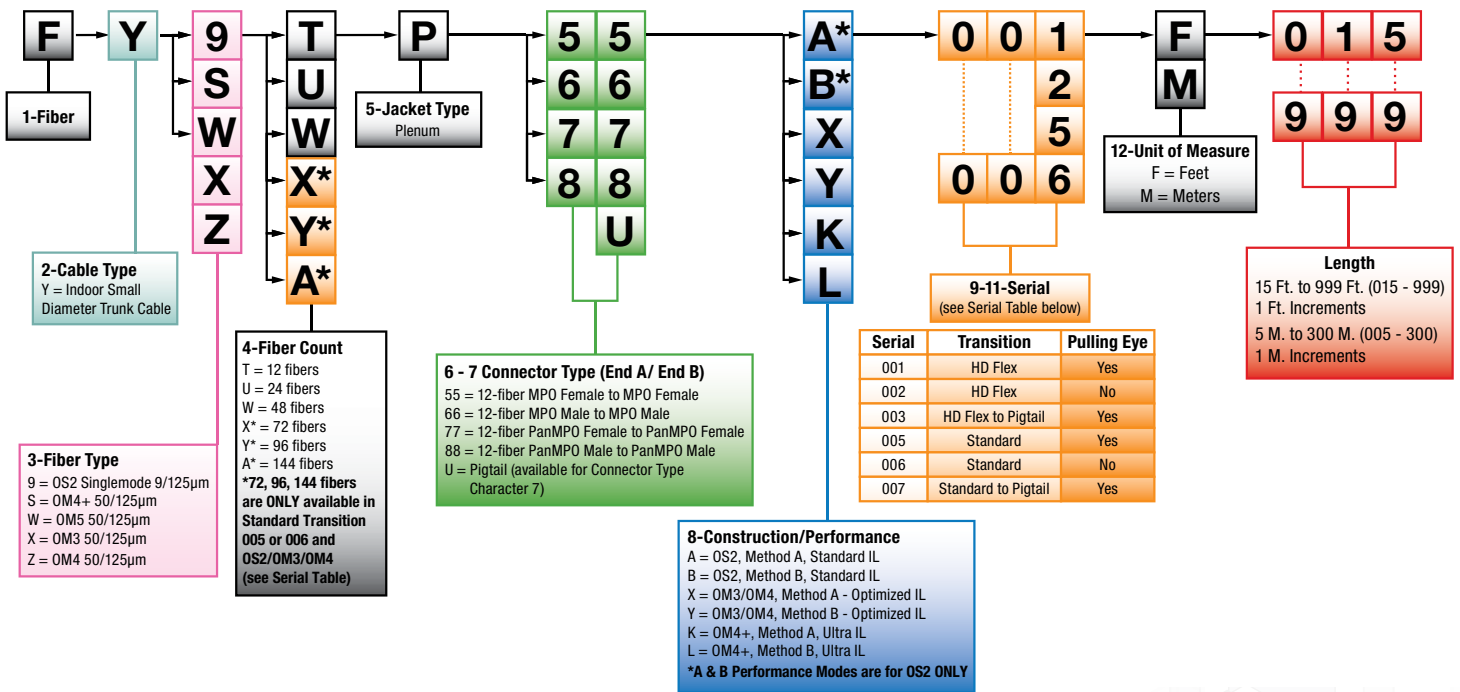
Replace "" with 1, 2, or 4 to order the appropriate RU version
 # is a WH add-on for the accessory in white and % is a W add-on for the accessory in white
 (ex: FLEX-PLATE1U is a 1RU black HD Flex Enclosure Trunk Slack Plate)

Choose Your Trunk Trunks (Build Your Part Number Below)

Configure Fiber Trunk part numbers in our online tool

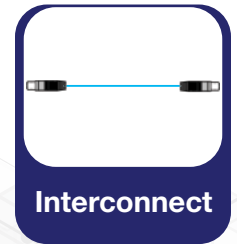


Trunk

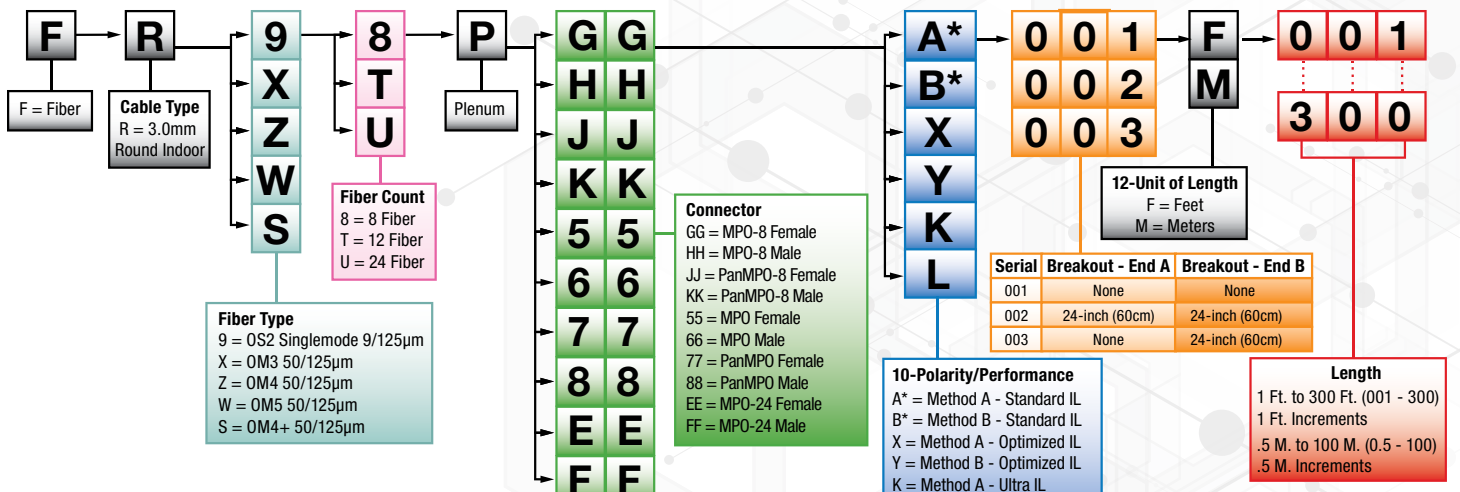


Example: **FYXTP77Y001F030** - OM3 12-Fiber HD Flex™ Indoor Small Diameter Trunk, Plenum, 1x12F PanMPO Female with 1m breakout to 1x12F PanMPO Female with 1m breakout, Polarity B, Optimized IL, Pulling Eye End A, 30'

Choose Your Interconnect Interconnects (Build Your Part Number Below)



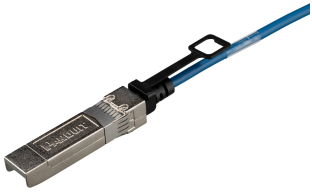
Interconnect



Example: **FRXTP77X001F001** - OM3 12-Fiber Interconnect Plenum, Female PanMPO™ Connector to Female PanMPO™ Connector, Method A, Optimized IL, No Breakout - 1 Foot

Direct Attach Copper (DAC) Cable Assemblies

10 GbE SFP+, 25 GbE SFP28, and 100 GbE QSFP28 copper cable assemblies
 Used at Access or Leaf layers, primarily Top of Rack architectures
 100% production tested to exceed industry requirements



Pictured above:
PSF1PZA1MBU

Replace ** with cable jacket colors: BL - Black, BU - Blue, RD - Red, WH - White

Passive SFP+			
Part Number	AWG	Cable Color	Length (m)
PSF1PZA1M**	30	BL, BU, RD, WH	1
PSF1PZA1.5M**			1.5
PSF1PZA2M**			2
PSF1PZA2.5M**			2.5
PSF1PZA3M**			3
PSF1PZA3.5M**			3.5
PSF1PZC4M**	26		4
PSF1PZC5M**			5



Pictured above:
PSF2PZA1MRD

Replace ** with cable jacket colors: BL - Black, BU - Blue, RD - Red, WH - White

Passive SFP28			
Part Number	AWG	Cable Color	Length (m)
PSF2PZA1M**	30	BL, BU, RD, WH	1
PSF2PZA1.5M**			1.5
PSF2PZA2M**			2
PSF2PZA2.5M**			2.5
PSF2PZA3M**			3
PSF2PZA3.5M**			3.5
PSF2PZC4M**	26		4
PSF2PZC5M**			5



Pictured above:
PQSF2PXA1MBL

Passive QSFP28			
Part Number	AWG	Cable Color	Length (m)
PQSF2PXA1MBL	30	Black	1
PQSF2PXA2MBL			2
PQSF2PXA3MBL			3
PQSF2PXC4MBL			4
PQSF2PXC5MBL	26		5



Pictured above:
PHQ4SFP2A1MBL

QSFP28 to (4) SFP28 Breakout Assemblies			
Part Number	AWG	Cable Color	Length (m)
PHQ4SFP2A1MBL	30	Black	1
PHQ4SFP2A2MBL			2
PHQ4SFP2A3MBL			3
PHQ4SFP2C4MBL	26		4
PHQ4SFP2C5MBL			5

- High speed solution, most cost-effective interconnect for Data Centers
- **Low power draw** - short distance, passive powered transceivers result in a low power draw
- **Out of the box functionality** - DAC has both transceiver and cabling already factory-installed for rapid deployment
- **Speed per dollar** - Faster speeds than twisted pair ethernet, lower cost than fiber
- **Customizability** – Length (0.5m increments) and color options (Black, Blue, Red and White for SFP+ and SFP28) to fit your needs
- 10 GbE SFP+, 25 Gb SFP28, and 100 Gb QSFP28 copper cable assemblies
- Used at Access or Leaf layers, primarily Top of Rack architectures
- 100% production tested to exceed industry requirements

Note: Wire Gauge Guide: 'A' in part number = 30 AWG, 'C' = 26 AWG Note:
BL (Black), **BU** (Blue), **RD** (Red), **WH** (White)

PANDUIT®

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