HD Flex™ Fiber Optic Cassettes

PANDUIT®

SPECIFICATION SHEET

technical information

HD Flex™ Fiber Optic Cassettes offer a wide array of deployment options to support both Ethernet and Fibre Channel networks. Cassette types are available with 1 MPO to 6 duplex LC connectors, (6-port) 1 MPO to 12 duplex LC connectors (12-port), 1 MPO to 4 duplex LC connectors for breaking out parallel optics applications (40G into four 10G channels), and 6-port duplex LC cassettes for splice terminations. Also 6-port MPO and duplex LC fiber adapter panels (FAP) are available. All LC connectors contain integral shutters to help prevent contamination.

application

Allows system designers to tailor configuration, reach and breakout construction to application requirements; to minimize waste, optimize cable management, speed deployment, and improve flexibility and manageability for lower installation costs.

construction

Fiber types:

Multimode:	OM3 50/125µm OM4 50/125µm
Singlemode:	OS2 9/125µm

Front connectivity:

Multimode:	LC Duplex Adapters (Shuttered) MPO Adapters (Key-up to Key-up, Key-up to Key-down)
Singlemode:	LC Duplex Adapters (Shuttered) MPO Adapters (Key-up to Key-down)

Rear connectivity:

Multimode:	MPO Adapter with MPO male connector MPO Adapters (Key-up to Key-up, Key-up to Key-down) 12-fiber for splicing (ribbon, 250µm)
Singlemode:	MPO Adapter with MPO male connector MPO Adapters (Key-up to Key-down) 12-fiber for splicing (ribbon, 250µm)

environmental properties

Operating temperature:	0°C to +70°C (32°F to 158°F)
Storage and shipping temperature:	-40°C to +70°C (-40°F to 158°F)
Installation temperature	0°C to +60°C (32°F to 140°F)

performance properties

Insertion loss:

Multimode:
Optimized Cassette and Breakout Cassette: 0.5 dB
Ultra Low Loss Cassette and Breakout Cassette: 0.35 dB
Optimized Loss Splice Cassette: 0.15 dB plus splice loss
Ultra Low Loss Splice Cassette: 0.10 dB plus splice loss
Singlemode:
Standard Cassette and Breakout Cassette: 0.75 dB
Standard Loss Splice Cassette: 0.35 dB plus splice loss

Return loss:

Per fiber: >26dB (OM3/OM4)
>55dB (OS1/OS2)

Connector durability:

Connectors meet TIA/EIA-568C.3 A.4.9 Durability:
500 mating cycles

Fiber count: 8, 12 and 24

Split sleeve material: Zirconia ceramic

standards

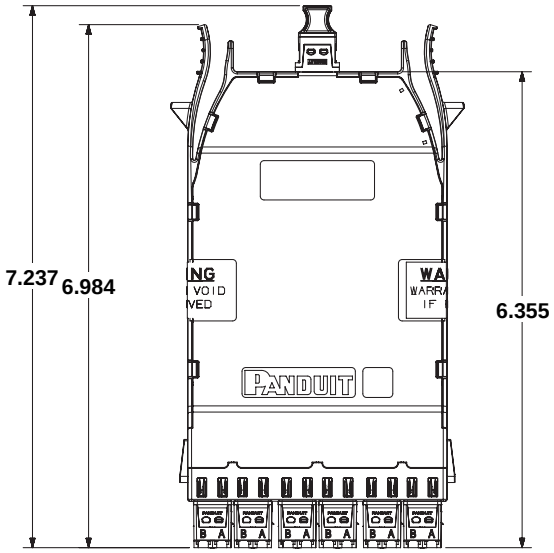
Meets or exceeds: ISO/IEC 11801, ANSI/TIA-568-C.3, TIA-604-5 (FOCIS-5), TIA-604-10 (FOCIS-10), RoHS Compliant

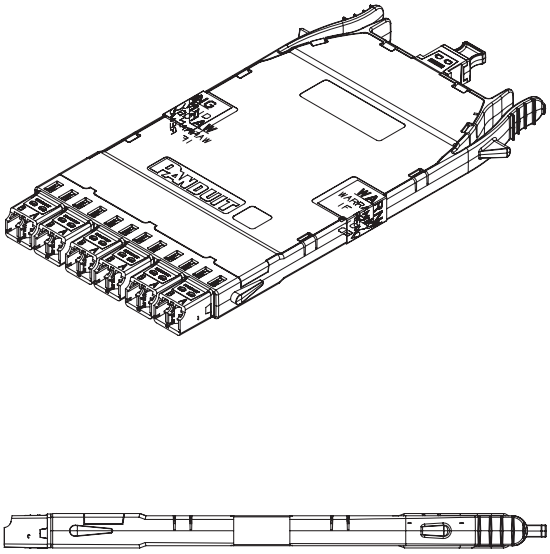
HD Flex™ Fiber Optic Cassettes

Description	Part Number		
	6-port, 12-fiber (1 MPO)	12-port, 24-fiber (2 MPOs)	12-port, 24-fiber (1 MPO)
HD Flex™ Cassettes - Duplex LC			
OM4 Fiber/Optimized Loss (0.50 dB)			
Method A Polarity	FHCZO-12-10AS	FHCZO-24-10AS	FHCZO-24F-10AS
Modified Method A Polarity (Pair flipped)	FHCZO-12-10AF	FHCZO-24-10AF	FHCZO-24F-10AF
Method B Polarity	FHCZO-12-10BN	FHCZO-24-10BN	FHCZO-24F-10BN
OM4 Fiber/Ultra Low Loss (0.35 dB)			
Method A Polarity	FHCZA-12-10AS	FHCZA-24-10AS	–
Modified Method A Polarity (Pair flipped)	FHCZA-12-10AF	FHCZA-24-10AF	–
Method B Polarity	FHCZA-12-10BN	FHCZA-24-10BN	–
OM3 Fiber/Optimized Loss (0.50 dB)			
Method A Polarity	FHCXO-12-10AS	FHCXO-24-10AS	FHCXO-24F-10AS
Modified Method A Polarity (Pair flipped)	FHCXO-12-10AF	FHCXO-24-10AF	FHCXO-24F-10AF
Method B Polarity	FHCXO-12-10BN	FHCXO-24-10BN	FHCXO-24F-10BN
OS2 Fiber/Standard Loss (0.75 dB)			
Method A Polarity	FHC9N-12-10AS	FHC9N-24-10AS	FHC9N-24F-10AS
Modified Method A Polarity (Pair flipped)	FHC9N-12-10AF	FHC9N-24-10AF	FHC9N-24F-10AF
HD Flex™ LC Splice Cassettes			
OM4 Fiber/Optimized Loss (0.15 dB)			
Pre-loaded with 12 pigtails (250µm) and 12 splice sleeves	FHSZO-12-10P		
Pre-loaded with 12-fiber ribbon pigtail and 1 ribbon fiber splice sleeve	FHSZO-12-10R		
OM4 Fiber/Ultra Low Loss (0.10 dB)			
Pre-loaded with 12 pigtails (250µm) and 12 splice sleeves	FHSZA-12-10P		
Pre-loaded with 12-fiber ribbon pigtail and 1 ribbon fiber splice sleeve	FHSZA-12-10R		
OM3 Fiber/Optimized Loss (0.15 dB)			
Pre-loaded with 12 pigtails (250µm) and 12 splice sleeves	FHSXO-12-10P		
Pre-loaded with 12-fiber ribbon pigtail and 1 ribbon fiber splice sleeve	FHSXO-12-10R		
OS2 Fiber/Standard Loss (0.35 dB)			
Pre-loaded with 12 pigtails (250µm) and 12 splice sleeves	FHS9N-12-10P		
Pre-loaded with 12-fiber ribbon pigtail and 1 ribbon fiber splice sleeve	FHS9N-12-10R		
HD Flex™ LC and MPO Fiber Adapter Panels			
LC Fiber Adapter Panels			
6 LC Duplex Multimode Adapters in Aqua with Zirconia sleeves	FHSXN-12-10N		
6 LC Duplex Singlemode Adapters in Blue with Zirconia sleeves	FHS9N-12-10N		
MPO Fiber Adapter Panels			
6 MPO Type A Adapters (Key-Up to Key-Down) in Black	FHMP-6-ABL		
6 MPO Type B Adapters (Key-Up to Key-Up) in Charcoal Gray	FHMP-6-BCG		
6 MPO Type A Adapters (Key-Up to Key-Down) in Red	FHMP-6-ARD		
HD Flex™ Breakout Cassettes	**6-port, 8-fiber (1 MPO)**	**12-port, 24-fiber (3 MPO)**	**12-port, 24-fiber (1 MPO)**
OM4 Fiber/Optimized Loss (0.50 dB)			
Method B Polarity	FHC3ZO-08-10BN	FHC3ZO-24-10BN	FHC3ZO-24F-10BN
OM4 Fiber/Ultra Low Loss (0.35 dB)			
Method B Polarity	FHC3ZA-08-10BN	FHC3ZA-24-10BN	–
OM3 Fiber/Optimized Loss (0.50 dB)			
Method B Polarity	FHC3XO-08-10BN	FHC3XO-24-10BN	FHC3XO-24F-10BN
OS2 Fiber/Standard Loss (0.75 dB)			
Method B Polarity	FHC39N-08-10AN	FHC39N-24-10AN	FHC39N-24F-10AN

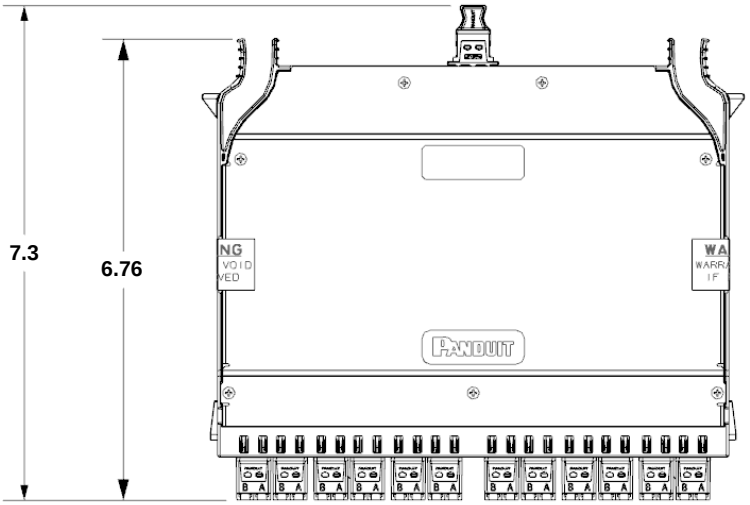
HD Flex™ Fiber Optic Cassettes

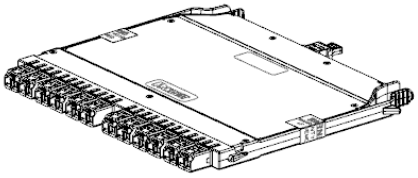
6-port Duplex LC to MPO Cassette

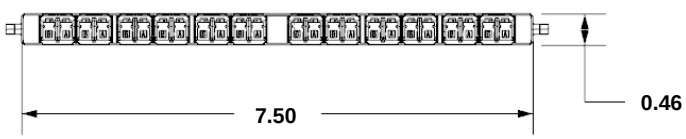




12-port Duplex LC to MPO Cassette







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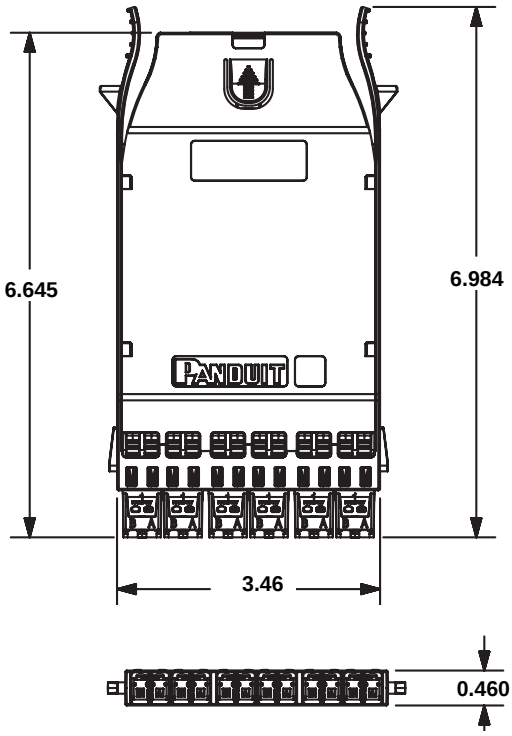
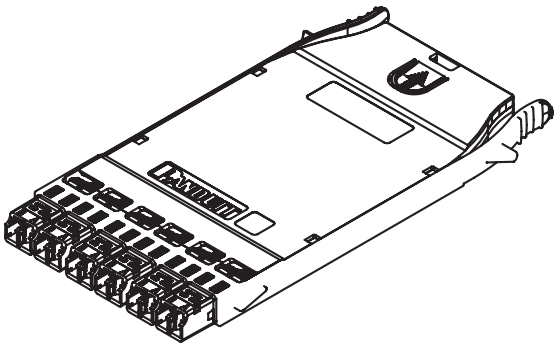
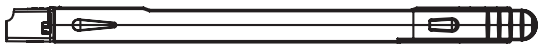
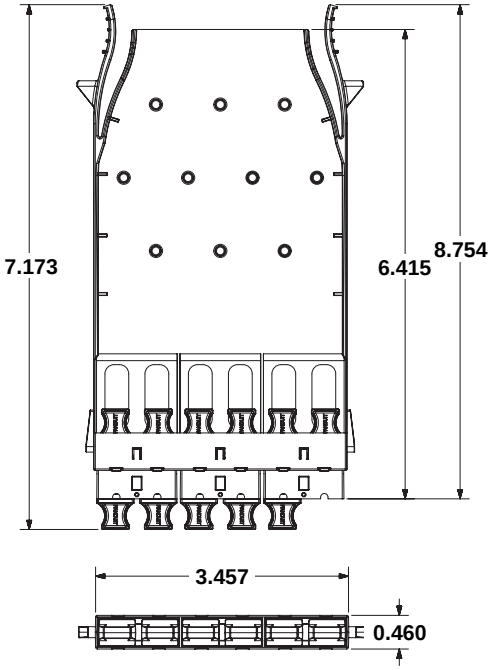
6-port Duplex LC Splice Cassette/Fiber Adapter Panel

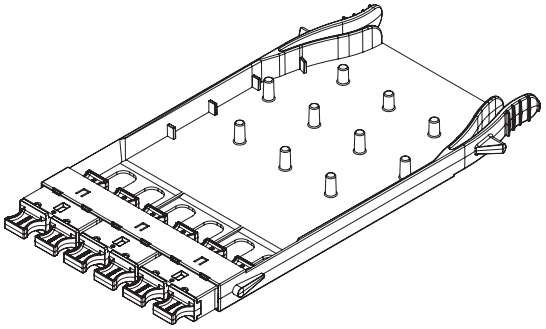


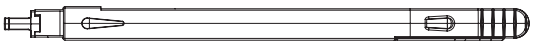




6-port MPO Fiber Adapter Panel







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cs-cdn@panduit.com
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Phone: 44.20.8601.7200

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FBSP96--WW-ENG
2016-07-01