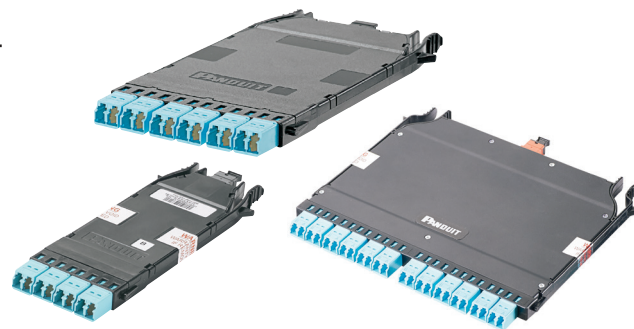


technical information

HD Flex™ Fiber Optic Cassettes offer a wide array of deployment options to support both Ethernet and Fibre Channel networks. Cassettes are available in 4-port, 6-port, and 12-port configurations with several connector options on the front and back of the cassettes. Splice cassettes and adapter/coupler modules are also available.



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
OM4+ Sig Core 50/125µm
Singlemode: OS2 9/125µm

Front connectivity:

LC, LC/APC Duplex Adapters (Shuttered)
SC, SC/APC Duplex Adapters
MPO Adapters (Key-up to Key-up, Key-up to Key-down)

Rear connectivity:

MPO Adapter with MPO male connector
MPO Adapters (Key-up to Key-up Method B, Key-up to Key-down Method A)
12-fiber and 24-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 (1) 24F MPO cassette 1.2 dB
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) – LC, SC
>55dB (OS1/OS2) – LC, SC
>65dB (OS1/OS2) – LC/APC, SC/APC

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

Fiber count: 8, 12 and 24

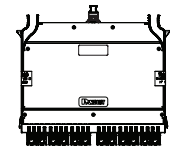
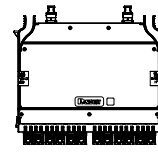
Split sleeve material:

Zirconia Ceramic

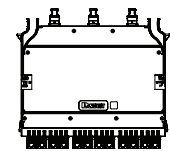
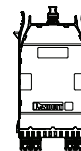
standards

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

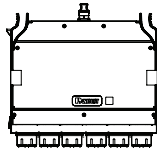


HD Flex™ Cassettes – Duplex LC, LC/APC	6-Port, 12-Fiber (1 MPO)	12-Port, 24-Fiber (2 MPOs)	12-Port, 24-Fiber (1 MPO24)
OM4 Fiber/Optimized Loss – LC			
Method A polarity.	FHCZO-12-10AS	FHCZO-24-10AS	
Modified Method A polarity (pair flipped).	FHCZO-12-10AF	FHCZO-24-10AF	FHCZO-24F-10A
Universal polarity (B).	FHCZO-12-10U	FHCZO-24-10U	
OM4+ Signature Core Fiber/Ultra Low Loss – LC			
Method A polarity.	FHCSA-12-10AS	FHCSA-24-10AS	
Modified Method A polarity (pair flipped).	FHCSA-12-10AF	FHCSA-24-10AF	
Universal polarity (B).	FHCSA-12-10U	FHCSA-24-10U	
OM4 Fiber/Ultra Low Loss – LC			
Method A polarity.	FHCZA-12-10AS	FHCZA-24-10AS	
Modified Method A polarity (pair flipped).	FHCZA-12-10AF	FHCZA-24-10AF	
Universal polarity (B).	FHCZA-12-10U	FHCZA-24-10U	
OM3 Fiber/Optimized Loss – LC			
Method A polarity.	FHCXO-12-10AS	FHCXO-24-10AS	
Modified Method A polarity (pair flipped).	FHCXO-12-10AF	FHCXO-24-10AF	FHCXO-24F-10A
Universal polarity (B).	FHCXO-12-10U	FHCXO-24-10U	
OS2 Fiber/Standard Loss – LC			
Method A polarity.	FHC9N-12-10AS	FHC9N-24-10AS	
Modified Method A polarity (pair flipped).	FHC9N-12-10AF	FHC9N-24-10AF	FHC9N-24F-10A
Universal polarity (B).	FHC9N-12-10U	FHC9N-24-10U	
OS2 Fiber/Standard Loss – LC/APC			
Method A polarity.	FHC9N-12-LAAS	FHC9N-24-LAAS	
Modified Method A polarity (pair flipped).	FHC9N-12-LAAF	FHC9N-24-LAAF	FHC9N-24F-LAA
Universal polarity (B).	FHC9N-12-LAU	FHC9N-24-LAU	

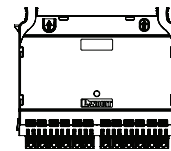
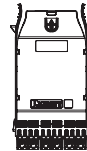


HD Flex™ 4-to-1 Breakout Cassettes	4-Port, 8-Fiber (1 MPO)	6-Port, 8-Fiber (1 MPO)	12-Port, 24-Fiber (3 MPO)
OM4 Fiber/Optimized Loss – LC			
Method B polarity.	FHC3ZO-08H-10B	FHC3ZO-08-10BN	FHC3ZO-24H-10B
OM4 Fiber/Ultra Low Loss – LC			
Method B polarity.	FHC3ZA-08H-10B	FHC3ZA-08-10BN	FHC3ZA-24H-10B
OM3 Fiber/Optimized Loss – LC			
Method B polarity.	FHC3XO-08H-10B	FHC3XO-08-10BN	FHC3XO-24H-10B
OS2 Fiber/Standard Loss – LC			
Method A polarity.	FHC39N-08H-10A	FHC39N-08-10AN	FHC39N-24H-10A
OS2 Fiber/Standard Loss – LC/APC			
Method A polarity – LC/APC.	FHC39N-08H-LAA		

HD Flex™ Fiber Optic Cassettes

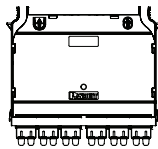


HD Flex™ Cassettes – Duplex SC, SC/APC	12-Port, 12-Fiber (1 MPO)
OM4 Fiber/Standard Loss – SC	
Method A polarity.	FHCZN-12-03AS
Modified Method A polarity (pair flipped).	FHCZN-12-03AF
Universal polarity (B).	FHCZN-12-03U
OM3 Fiber/Standard Loss – SC	
Method A polarity.	FHCXN-12-03AS
Modified Method A polarity (pair flipped).	FHCXN-12-03AF
Universal polarity (B).	FHCXN-12-03U
OS2 Fiber/Standard Loss – SC	
Method A polarity.	FHC9N-12-03AS
Modified Method A polarity (pair flipped).	FHC9N-12-03AF
Universal polarity (B).	FHC9N-12-03U
OS2 Fiber/Standard Loss – SC/APC	
Method A polarity.	FHC9N-12-3GAS
Modified Method A polarity (pair flipped).	FHC9N-12-3GAF
Universal polarity (B).	FHC9N-12-3GU



HD Flex™ Splice Cassettes – LC, LC/APC	6-Port, 12-Fiber	12-Port, 24-Fiber
OM4 Fiber/Optimized Loss – LC		
Pre-loaded with pigtails (250µm) and splice sleeves.	FHSZO-12-10P	
Pre-loaded with flat ribbon pigtail and splice sleeve.	FHSZO-12-10R	
OM4 Fiber/Ultra Low Loss – LC		
Pre-loaded with pigtails (250µm) and splice sleeves.	FHSZA-12-10P	FHSZA-24-10P
Pre-loaded with flat ribbon pigtails and splice sleeve(s).	FHSZA-12-10R	FHSZA-24-10R
OM3 Fiber/Optimized Loss – LC		
Pre-loaded with pigtails (250µm) and splice sleeves.	FHSXO-12-10P	
Pre-loaded with flat ribbon pigtail and splice sleeve.	FHSXO-12-10R	
OS2 Fiber/Standard Loss – LC		
Pre-loaded with pigtails (250µm) and splice sleeves.	FHS9N-12-10P	FHS9N-24-10P
Pre-loaded with flat ribbon pigtails and splice sleeve(s).	FHS9N-12-10R	FHS9N-24-10R
OS2 Fiber/Standard Loss – LC/APC		
Pre-loaded with pigtails (250µm) and splice sleeves.	FHS9N-12-LAP	FHS9N-24-LAP
Pre-loaded with flat ribbon pigtails and splice sleeve(s).	FHS9N-12-LAR	FHS9N-24-LAR
Splice Only Cassette – No front connectivity		
Packaged with 2 ribbon and 24 pigtail splice sleeves.		FHSN-24

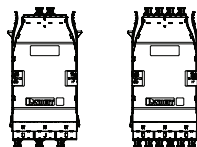
HD Flex™ Fiber Optic Cassettes



HD Flex™ Splice Cassettes – Duplex SC, SC/APC	12-Port, 12-Fiber
OM4 Fiber/Ultra Low Loss – SC	
Pre-loaded with pigtails (250µm) and splice sleeves.	FHSZA-12-03P
Pre-loaded with flat ribbon pigtail and splice sleeve.	FHSZA-12-03R
OS2 Fiber/Standard Loss – SC	
Pre-loaded with pigtails (250µm) and splice sleeves.	FHS9N-12-03P
Pre-loaded with flat ribbon pigtail and splice sleeve.	FHS9N-12-03R
OS2 Fiber/Standard Loss – SC/APC	
Pre-loaded with pigtails (250µm) and splice sleeves.	FHS9N-12-3AP
Pre-loaded with flat ribbon pigtail and splice sleeve.	FHS9N-12-3AR

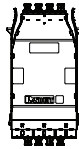


HD Flex™ LC and MPO Fiber Adapter Panels	6-Port
LC Fiber Adapter Panels	
6 LC duplex multimode adapters in Aqua.	FHSXN-12-10N
6 LC duplex singlemode adapters in Blue.	FHS9N-12-10N
6 LC/APC duplex singlemode adapters in APC Green.	FHS9N-12-LAN
MPO Fiber Adapter Panels	
6 MPO Type A adapters (key-up to 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™ Dark Fiber Conversion Cassettes	6-Port
OM4 Fiber/Ultra Low Loss (0.35 dB)	
24-fiber (3xMPO8 to 2xMPO12), Method A.	FH4ZU-24-NMNMA
24-fiber (3xMPO8 to 2xMPO12), Method B.	FH4ZU-24-NMNMB
48-fiber (6xMPO8 to 4xMPO12), Method A.	FH4ZU-48-NMNMA
48-fiber (6xMPO8 to 4xMPO12), Method B.	FH4ZU-48-NMNMB

HD Flex™ Fiber Optic Cassettes



HD Flex™ Mesh/Shuffle Cassettes	6-Port
OM4 Fiber/Optimized Loss (0.7 dB)	
32-fiber 4xMPO8 to 4xMPO8.	FHMZO-32-M
OM3 Fiber/Optimized Loss (0.7 dB)	
32-fiber 4xMPO8 to 4xMPO8.	FHMXO-32-M
OS2 Fiber/Standard Loss (1.0 dB)	
32-fiber 4xMPO8 to 4xMPO8.	FHM9N-32-M

HD Flex™ Blank/Filler Panels	4-Port	6-Port	12-Port
Blank/filler panels.	FHSBBL04W	FHSBBL06W	FHSBBL12W

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