

FHD Splice Cassettes

Eliminates the need for external splice trays to get faster field splicing of pigtails and guarantees proper fiber cable management and bend radius control



Application

The FHD splice cassette consists of pre-installed fiber adapters and pre-terminated pigtails, supporting multiple connector types including LC UPC, LC APC, SC UPC, SC APC, and MTP® for both single-mode and multimode applications. The module integrates all accessories required for field splicing—such as splice holders, heat-shrink splice protectors, splice slots, and cable ties—and is available with 70 cm long 900 µm or ribbon pigtails. Designed to hold and protect up to 12, 24, and 96 fusion splices, the cassette combines the adapter interface and splice-management structure into a single module, eliminating the need for a separate splice tray while providing internal slack storage and bend-radius protection. This enables faster, easier, and more space-efficient splicing deployments in high-density environments. Typical applications include Wide Area Networks (WAN), campuses, high-count riser buildings, government installations, data centers, and central offices.

Features

- Integrated splice holder enables easy maintenance of individual spliced fibers and scalable expansion without impacting adjacent fibers.
- Tool-less push-lock rivets support one-handed installation and removal, simplifying operation and improving on-site efficiency.
- Interface color-coding follows the TIA/EIA-568.3-D standard, making it easy to identify fiber types and connector polish.
- Compatible with FHD enclosures, supporting front installation and independent module operation without disturbing adjacent cassettes.
- Pre-terminated LC, SC, and MTP® adapters help save time and ensure reliable connections in high-density Data Centers, enabling easy on-site assembly.

Standards Compliance

- TIA-942 data center design guidelines
- ANSI/TIA-568.3-D
- ANSI/TIA-604-5 for connector intermateability
- RoHS 2011/65/EU

Product Constructions

									
Adapter Type	LC Duplex			SC Duplex			MTP®		
Adapter Color	OS2 UPC: Blue, OS2 APC: Green, OM4 UPC: Aqua						Black		
Number of Adapter	6/12			6			8		
Fiber Count	12/24			12			96		
Sleeves Material	Zirconia Ceramic			Zirconia Ceramic			/		
Material of Splice Tray	ABS								
Material of Cassette Body	Aluminium (AL5052)								
Included	0.9mm OD, 70cm Pigtails, Heat Shrink Splice Sleeves, Splice Holders, Cable Tie						70cm Ribbon Pigtails, Heat Shrink Splice Sleeves, Splice Holders, Cable Tie		

Environmental Properties

Operating Temperature	-10 to 60°C (14 to 140°F)
Storage Temperature	-10 to 60°C (14 to 140°F)

Performance Properties

	  	
Insertion Loss	≤0.3dB	≤0.35dB
Return Loss	Single Mode: ≥50dB	Single Mode: ≥60dB
	Multimode: ≥30dB	Multimode: ≥20dB
Polish Type	Single Mode: UPC/APC	Single Mode: APC
	Multimode: UPC	
Durability	LC/SC: 1000 Mating Cycles, MTP®: 500 Mating Cycles	

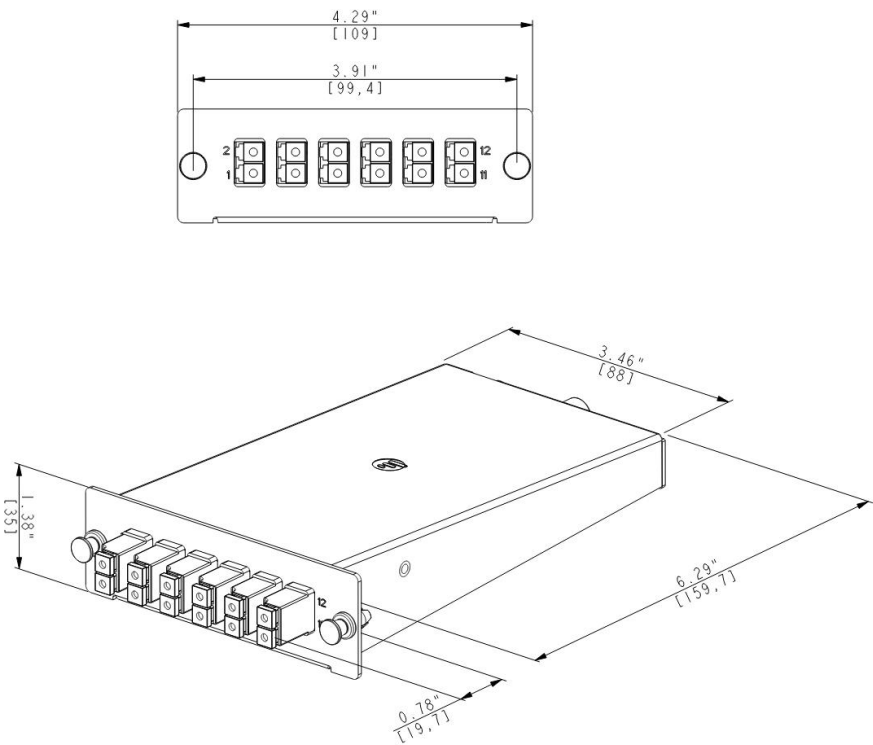
Color Codes

Fiber Mode	Polish Type	Adapter Color
OS2	APC	Green
	UPC	Blue
OM3	UPC	Aqua
OM4	UPC	Aqua
OM5	UPC	Lime Green

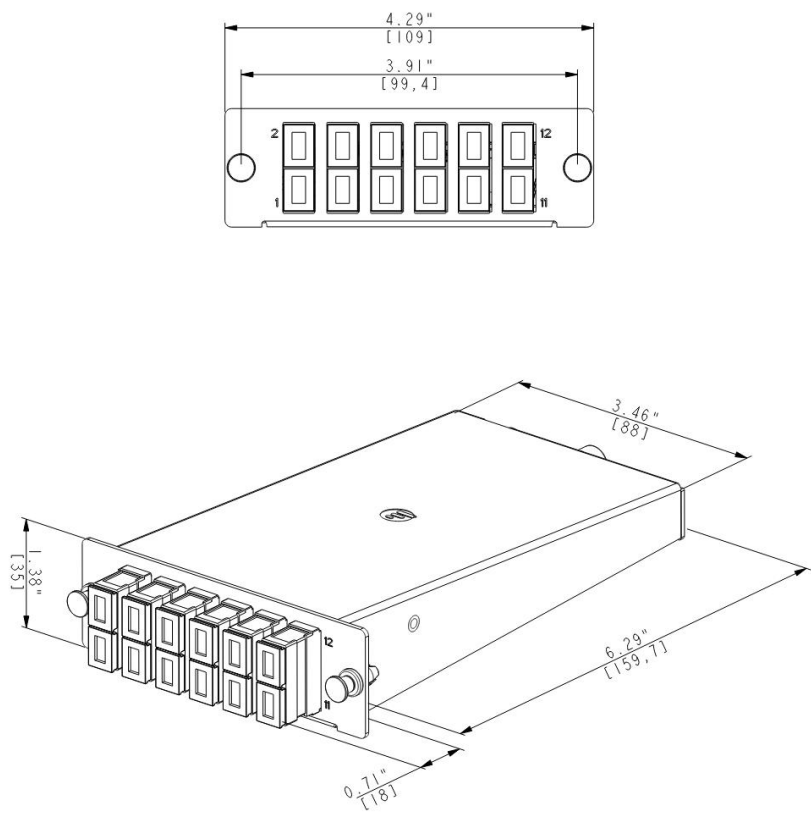
Note: Color coding is currently only for the front LC and SC Adapter.

Layout and Dimensions

12F and 24F LC Splice Cassette

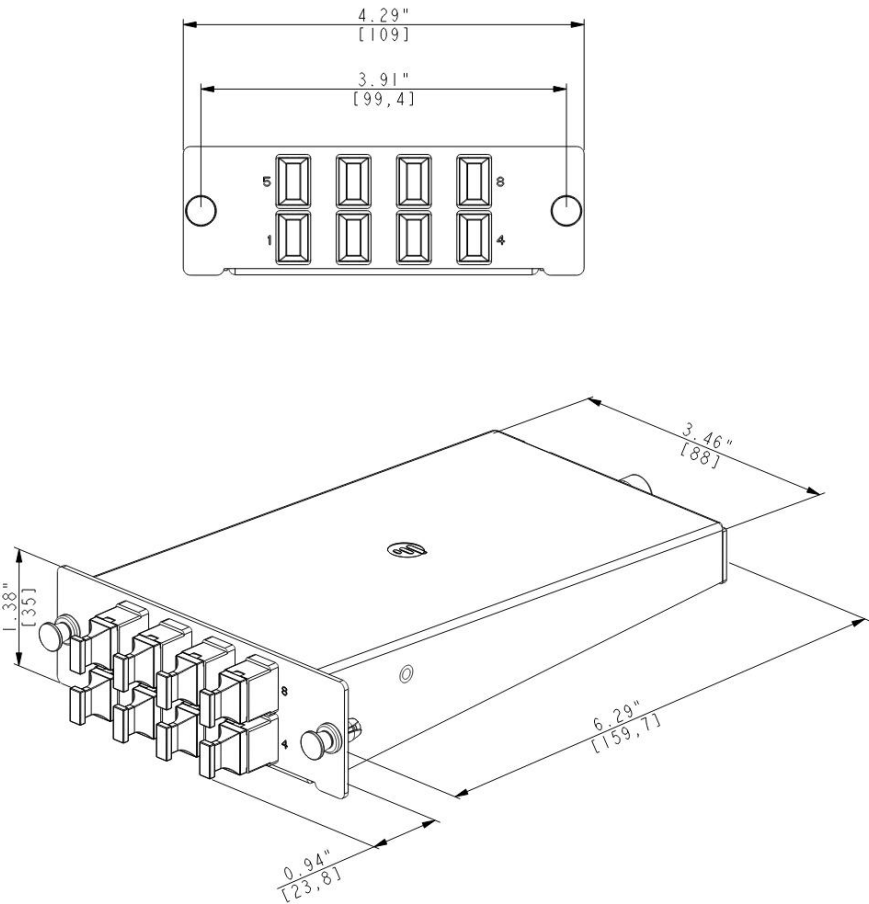


12F SC Splice Cassette



Layout and Dimensions

96F MTP® Splice Cassette



Products Listing

12-Fiber Cassettes

ID	Description
258603	FHD® LC Splice Cassette with Pigtails, 12 Fibers OM4 Multimode, 6 x LC UPC Duplex (Aqua), 0.3dB Max.
382907	FHD® LC Splice Cassette with Pigtails, 12 Fibers OS2 Single Mode, 6 x LC UPC Duplex (Blue), 0.3dB Max.
258595	FHD® LC Splice Cassette with Pigtails, 12 Fibers OS2 Single Mode, 6 x LC APC Duplex (Green), 0.3dB Max.
258601	FHD® SC Splice Cassette with Pigtails, 12 Fibers OM4 Multimode, 6 x SC UPC Duplex (Aqua), 0.3dB Max.
382905	FHD® SC Splice Cassette with Pigtails, 12 Fibers OS2 Single Mode, 6 x LC UPC Duplex (Blue), 0.3dB Max.
258599	FHD® SC Splice Cassette with Pigtails, 12 Fibers OS2 Single Mode, 6 x SC APC Duplex (Green), 0.3dB Max.

24-Fiber Cassettes

ID	Description
178124	FHD® LC Splice Cassette with Pigtails, 24 Fibers OM4 Multimode, 12 x LC UPC Duplex (Aqua), 0.3dB Max.
178125	FHD® LC Splice Cassette with Pigtails, 24 Fibers OS2 Single Mode, 12 x LC UPC Duplex (Blue), 0.3dB Max.
258597	FHD® LC Splice Cassette with Pigtails, 24 Fibers OS2 Single Mode, 12 x LC APC Duplex (Green), 0.3dB Max.

96-Fiber Cassettes

ID	Description
327949	FHD® MTP® Splice Cassette with Ribbon Pigtails, 96 Fibers OM4 Multimode, 8 x MTP®-12 UPC (Male) Key Up to Key Down (Black) Adapter, 0.35dB Max.
327947	FHD® MTP® Splice Cassette with Ribbon Pigtails, 96 Fibers OS2 Single Mode, 8 x MTP®-12 APC (Male) Key UP to Key Down (Black) Adapter, 0.35dB Max.

Matching Products

Fiber Enclosures

ID	Description
96427	1U Rack Mount Enclosure Unloaded, Tool-less Removable Top Cover, Holds up to 4 x FHD® Cassettes or Panels
70361	1U Rack Mount Enclosure Unloaded, Sliding Drawer, Holds up to 4 x FHD® Cassettes, Panels, or Splice Trays
145167	1U Rack Mount Enclosure Unloaded, Sliding and Tilt-down Drawer, Holds up to 4 x FHD® Cassettes or Panels
70419	1U Rack Mount Modular Enclosure Unloaded, Rear Cable Managers, Holds up to 4 x FHD® Cassettes or Panels
50550	Wall Mount Enclosure Unloaded, 2 Ports, Holds up to 2 x FHD® Cassettes or Panels, 2 x Splice Trays

MTP® Jumpers

ID	Description
68017	1m (3ft) MTP® Jumper, MTP®-12 UPC (Female) to MTP®-12 UPC (Female), 12 Fibers, Multimode (OM4), Plenum (OFNP), 0.35dB Max, Type B, Magenta
68018	1m (3ft) MTP® Jumper, MTP®-12 APC (Female) to MTP®-12 APC (Female), 12 Fibers, Single Mode (OS2), Plenum (OFNP), 0.35dB Max, Type B, Yellow

Fiber Patch Cables

ID	Description
40180	1m (3ft) Fiber Patch Cable, 2 Fibers, LC UPC Duplex to LC UPC Duplex, Multimode (OM4), Riser (OFNR), 2.0mm
40191	1m (3ft) Fiber Patch Cable, 2 Fibers, LC UPC Duplex to LC UPC Duplex, Single Mode (OS2), Riser (OFNR), 2.0mm
40904	1m (3ft) Fiber Patch Cable, 2 Fibers, LC APC Duplex to LC APC Duplex, Single Mode (OS2), Riser (OFNR), 2.0mm
300751	2m (7ft) Fiber Patch Cable, 2 Fibers, SC UPC Duplex to SC UPC Duplex, Multimode (OM4), Riser (OFNR), 1.6mm
40234	1m (3ft) Fiber Patch Cable, 2 Fibers, SC UPC Duplex to SC UPC Duplex, Single Mode (OS2), Riser (OFNR), 2.0mm
41233	1m (3ft) Fiber Patch Cable, 2 Fibers, SC APC Duplex to SC APC Duplex, Single Mode (OS2), Riser (OFNR), 2.0mm