

# U-Series MPO Fanout Cassettes

The U-Series MPO Fanout Cassettes offer scalability in a compact footprint that allows you to quickly build a high-density fiber optic infrastructure through plug-and-play installation. With cassettes that can be loaded to the front or rear of any U-Series housing, and available in a range of configurations, these cassettes enable seamless connections from your active equipment to your physical layer and supports migration speeds from 10G through to 400G and beyond.

## Features

### High-Density MPO to LC Cassettes

- Base-8, Base-12, Base-24 options available
- Compatible with all U-Series Housings
- Up to 12 LC ports (24 fibers) per cassette
- Multi-mode and Single mode cassette options available

### Shuttered LC Adapters

- Greener solution by eliminating adapter dust caps
- Provide automatic laser eye safety
- Easy fault detection
- Facilitate faster patching

### Low Loss Enabled by Fujikura MT Ferrule

- Ensures maximum reliability and mechanical performance

### Polarity F

- Polarity managed in the cassette
- Same cassette orientation can be used at both ends of a link

### Facilitates Moves, Adds, and Changes

- Cassettes can be locked in a parked or maintenance position for simplified patching

## Applications

- Data Center
- Campus
- Central Office
- Office Backbone



## Specifications

Fiber Types	SM, OM4
Fiber Counts Available	12 LC ports (24 fiber), 8 LC ports (16 fiber), 6 LC ports (12 fiber)
Polarity Mapping Available	Base 8/12: Polarity F (Polarity A, B, and C available on request)
Adapter Types	MPO (Male) to LC Shuttered Adapters
Cassette Material	ABS, CR4 Steel
Cassette Dimensions	Height: 87mm (3.4 inches) Width: 30mm (1.2 inches) Depth: 160mm (6.3 inches)
Package Dimensions	Height: 140mm (5.5 inches) Width: 45mm (1.8 inches) Depth: 280mm (11 inches)
Weight	Product weight: 0.17kg Packaged weight: 0.24kg
Materials Compliant	RoHS, Reach/SVHC, UL 94V-0

### Optical Performance

Connector Mating	Insertion Loss Max	Insertion Loss Average	Return Loss
MPO Premium Low Loss (MM)	0.35 dB	0.10 dB	N/A
LC Premium Low Loss (MM)	0.15 dB	0.08 dB	N/A
MPO Premium Low Loss (SM)	0.35 dB	0.10 dB	≤-60 dB
LC Premium Low Loss (SM)	0.15 dB	0.12 dB	≤-55 dB

### Fiber Performance

Fiber Type (ISO/IEC 11801)	SM (OS1/OS2)	OM4
Attenuation Coefficient	≤0.38 Max (1300nm) ≤0.25 Max (1550nm) ≤0.34 Typ (1300nm) ≤0.19 Typ (1550nm)	<3.5 Max (850nm) <1.5 Max (1300nm) <2.7 Typ (850nm) <0.9 Typ (1300nm)
Minimum bandwidth: Overfilled launch (Mhz-km)	N/A	≥3500 (850nm) ≥500 (1300nm)
Minimum bandwidth: Laser Effective Modal Bandwidth (Mhz-km)	N/A	≥4700 (850nm)

## Ordering Information

Description	Part Number
<b>Base-8</b>	
AFL U-Series Fanout Cassette, 16 Fiber, OM4, MPO (Male) Base-8 to LC (Aqua), Polarity F	A4UD16BPVA-05DL
AFL U-Series Fanout Cassette, 16 Fiber, SM, MPO (Male) Base-8 to LC (Blue), Polarity F	A7UD16BPVA-05DL
AFL U-Series Fanout Cassette, 24 Fiber, OM4, MPO (Male) Base-8 to LC (Aqua), Polarity F	A4UD24BPVA-05DM
AFL U-Series Fanout Cassette, 24 Fiber, SM, MPO (Male) Base-8 to LC (Blue), Polarity F	A7UD24BPVA-05DM
<b>Base-12</b>	
AFL U-Series Fanout Cassette, OM4, 24f, Base-12 MPO male - LC (aqua), polarity A/C	A4UD24BPVA-05DA
AFL U-Series Fanout Cassette, SM, 24f, Base-12 MPO male - LC (blue) polarity A/C	A7UD24BPVA-05DA
AFL U-Series Fanout Cassette, 12 Fiber, OM4, MPO (Male) Base-12 to LC (Aqua), Polarity F	A4UD12BPVA-05DE
AFL U-Series Fanout Cassette, 12 Fiber, SM, MPO (Male) Base-12 to LC (Blue), Polarity F	A7UD12BPVA-05DE
AFL U-Series Fanout Cassette, 24 Fiber, OM4, MPO (Male) Base-12 to LC (Aqua), Polarity F	A4UD24BPVA-05DE
AFL U-Series Fanout Cassette, 24 Fiber, SM, MPO (Male) Base-12 to LC (Blue), Polarity F	A7UD24BPVA-05DE