

# ASCEND MPO Fanout Cassettes

ASCEND® MPO Fanout Cassettes are a pre-terminated plug-and-play solution designed to support incremental growth or a full-scale deployment in data center and enterprise applications. These cassettes are offered in a range of MPO-LC fanout configurations and are compatible with all standard ASCEND housings. They can be independently installed from the front or rear onto a sliding tray system which allows access to individual connections while minimizing disruption to other fiber connections.

## Features

### High-Density MPO to LC Cassettes

- Base-8, Base-12, and Base-24 options available
- Up to 6 LC ports (12 fibers) per cassette
- Multi-mode and Single mode options available

### Shuttered LC Adapters

- Greener solution by eliminating adapter dust caps
- Provide automatic laser eye safety
- Easy fault detection when using a Visual Fault Locator (VFL)
- 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

### Easy Moves, Adds, and Changes (MACs)

- Trays slide and lock in position for simplified patching
- Cassettes can be installed independently from front or rear of housing

## Applications

- Data Center
- Campus
- Central Office
- Office Backbone



## Specifications

Fiber Types	SM, OM3, OM4
Fiber Counts Available	12 LC ports (24 fiber), 6 LC ports (12 fiber), 4 LC ports (8 fiber)
Polarity Mapping Available	Polarity F (Polarity A is available on request)
Adapter Types	MPO (Male) to LC Shuttered Adapters
Cassette Material	ABS, 304 Steel
Cassette Color	Black
Cassette Dimensions (BASE-12)	Height: 11mm (0.5 inches) Width: 94mm (3.7 inches) Depth: 156mm (6.1 inches)
Package Dimensions	Height: 12mm (0.5 inches) Width: 127mm (5 inches) Depth: 183mm (7.2 inches)
Cassette Weight	0.2kg
Packaged Weight	0.3kg
Materials Compliant	RoHS, Reach/SVHC, UL 94V-0
Regional Availability	Global

## Optical Performance

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

Category	Description	Part Number
BASE-8 Fanout Cassettes	AFL ASCEND® Fanout Cassette, 8 Fiber, SM, MPO (Male) Base-8 to LC (Blue), Polarity F	A8-FC-M1-LU
	AFL ASCEND® Fanout Cassette, 8 Fiber, OM4 MPO (Male) Base-8 to LC (Aqua), Polarity F	A8-FC-M1-L4
BASE-12 Fanout Cassettes	AFL ASCEND® Fanout Cassette, 12 Fiber, SM, MPO (Male) Base-12 to LC (Blue), Polarity F	A12-FC-M1-LU
	AFL ASCEND® Fanout Cassette, 12 Fiber, OM4, MPO (Male) Base-12 to LC (Aqua), Polarity F	A12-FC-M1-L4