L-Series MPO Cassette BASE-12

L-Series MPO Cassette BASE-12 provides a secure transition between MPO and LC or SC connectors and are used to interconnect MPO backbones with LC or SC patching. This modular system allows for the fast deployment of high-density data center infrastructure and makes network maintenance and reconfiguration fast and easy. Cassettes can be mounted across the range of L-Series housings. MPO cassettes contain factory-terminated and tested MPO to LC or SC fanouts to deliver optical performance and reliability. Premium MPO and LC or SC premium versions are offered, providing low insertion loss for demanding power budgets.

The AFL L-Series is compatible with the industry-standard LGX format.

Features

- 12 or 24 fiber cassettes can be mounted in 1RU (72 LC connectors) or in 3RU (336 LC connectors)
- OS1/2, OM3, OM4 cabled fiber grades (OM1 and OM2 available)
- Polarity A (standard), B, or C
- Factory-terminated and tested
- High-performance zirconia sleeve adapters

Applications

- Data center infrastructure
- Storage Area Networks (SANs)
- Fiber channel
- Parallel optics

Specifications

ELEMENT	CHARACTERISTIC
Fiber	OS1/OS2, OM2, OM3, OM4 (ISO/IEC 11801)
Fiber count	12, 24
Polarity	A, B, C
MPO adapters	(IEC 61754 & EIA/TIA-604-5) • Body Color: Black - Polarity: A/C - Keyway up - Keyway down • Body Color: Grey - Polarity: B - Keyway up- Keyway up

ELEMENT	CHARACTERISTIC
LC adapter	• Body Color: Beige(MM)(OM3/OM4), Blue(SM/UPC), Green(SM/APC) • Sleeve Material: Zirconia
Terminations	• MPO (12 fiber-ferrule) with LC, LCA, SC, SCA - enhanced performance • MPO Low Loss Premium (12-fiber ferrule) with LC, LCA, SC, SCA - low loss premium performance
Cassette material	16 Gauge Aluminum (15mm thickness) with a black powder coat finish (color: RAL9004)
Storage temperature	-20 ~ +60°C
Installation temperature	-20 ~ +60°C
Operating temperature	-20 ~ +60°C
Packaging dimensions	150 mm x 50 mm x 215 mm
Weight	0.55 kg

Connector Performance

CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS
MPO Premium (MM)	0.10 dB	0.35 dB	N/A
MPO (MM)	0.20 dB	0.60 dB	N/A
MPO Premium (SM)	0.10 dB	0.35 dB	>60 dB
MPO (SM)	0.25 dB	0.75 dB	>60 dB

OPTICAL PERFORMANCE	MM PREMIUM	MM ENHANCED	SM PREMIUM	SM ENHANCED	CONFORMANCE
IL Max/Master (Acceptance)	0.15dB	0.25dB	0.15dB	0.25dB	IEC 61300-3-4
Ave/Master	0.08dB	0.15dB	0.12dB	0.18dB	IEC 61300-3-4
Ave/Random	0.10dB	0.20dB	0.12dB	0.18dB	IEC 61300-3-34
RL(Min Acceptance)	NA	NA	55/65**	55/65**	IEC 61300-3-6

** UPC/APC

Standards

- TIA/EIA-568-C.3 and ISO/IEC 11801 - cable
- IEC 61754-7 & EIA/TIA-604-5 - MPO
- RoHS, REACH, and SVHC materials compliant
- IEC 61754-20 (LC) & IEC 61754-14 (SC)
- IEC 60793 - optical fiber

Ordering Information

Code	Fiber Type		Code	Fiber Count		Code	End B		Polarity	
A	3	OM3	LD	12	12 Fibers	BPV	A	LC	-02DA	A/C
	4	OM4		24	24 Fibers		B	LCA	-02DB	B Type 1
	7	G.657A1					D	SC	-02DC	B Type 2
							E	SCA		

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Example Part Numbers

PART NUMBER	PRODUCT DESCRIPTION
A4LD24BPVA-02DA	AFL L-Series LGX 24F MPO Cassette Low Loss MPO M-LC MM OM4 BK BASE12 Pol A/C
A7LD12BPVA-02DA	AFL L-Series LGX 12F MPO Cassette Low Loss MPO M-LC SM G.657A1 BK BASE12 Pol A/C

Legacy Ordering Information

MPO CONNECTOR*		FIBER COUNT		DISCRETE CONNECTOR		FIBER TYPE		LGX CASSETTE	POLARITY	
MM	MPO Male (12 fiber Ferrule)	12	12 core	LC	LC	SM	OS1/OS2 G.657A1	CASS	Leave blank	A/C
MPM	MPO Premium Male (12 fiber Ferrule)	24	24 core	LCA	LC/APC	MM	MM 50/125 OM3/OM4		B1	Polarity B (Type 1) Selection Available for MULTIMODE product ONLY
				SC	SC**				B2	Polarity B (Type 2) Selection Available for MULTIMODE product ONLY
				SCA	SC/APC**					

* When selecting Premium Low Loss MPO all single-fiber connections will be provided with low loss premium performance

Available in 12-fiber cassettes only * MTP US Conec MPO Connectors available on request- add suffix "-US" to the end of PN

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