

LC Backplane Connector System (BLC)



Backplane interconnects offer simple installation and easy next-generation upgrades. Molex's Backplane LC (BLC) system utilizes a card-edge-mounted BLC connector, terminated to a device that will interface with a standard LC connector/adapter port within the backplane.



The BLC uses a generous axial design, which allows the connector ferrule to self-align inside the adapter. This unique latching design provides isolation between the card and backplane, minimizing the mechanical movement of the optical interface. Therefore, the connector system does not rely on the card or sled latches to complete the connector interface, making hot-swapping engage and disengage quick and reliable. Additionally, the 1.25mm ceramic ferrule provides a robust and low-insertion loss option offered in several density.

Features and Advantages

Small form-factor LC interface: Utilizes industry standards LC simplex and duplex connectors

Optional package sizes: 2, 4 and 8 fiber terminations

Generous axial movement

Telcordia (Bellcore) 326 compliant

RJ-45 latch provides easy insertion and removal of LC connection

Connector utilizes an independent latching mechanism

Low insertion loss:

Singlemode <.15 dB typical,

Multimode <.2 dB typical

Ordering Information

Order No.	Type	Description
106045-5000	BLC Connector	Connector, 2 position, 126µm Singlemode Zirconia Ferrules for 900µm buffered fiber, color black
106044-5000		Connector, 4 position, 126µm Singlemode Zirconia Ferrules for 900µm buffered fiber, color black
106046-5000		Connector, 8 position, 126µm Singlemode Zirconia Ferrules for 900µm buffered fiber, color black
106045-3000		Connector, 2 position, 127µm Multimode Zirconia Ferrules for 900µm buffered fiber, color black
106044-3000		Connector, 4 position, 127µm Multimode Zirconia Ferrules for 900µm buffered fiber, color black
106046-3000		Connector, 8 position, 127µm Multimode Zirconia Ferrules for 900µm buffered fiber, color black
106048-5000	BLC/APC Connector	Connector, 2 position, 126µm Singlemode Zirconia APC Ferrules for 900µm buffered fiber, color green
106047-5000		Connector, 4 position, 126µm Singlemode Zirconia APC Ferrules for 900µm buffered fiber, color green
106049-5000		Connector, 8 position, 126µm Singlemode Zirconia APC Ferrules for 900µm buffered fiber, color green
106145-1100	BLC Adapter	Adapter, 2 position, Singlemode Zirconia Ceramic alignment sleeves, color black
106144-1100		Adapter, 4 position, Singlemode Zirconia Ceramic alignment sleeves, color black
106146-1100		Adapter, 8 position, Singlemode Zirconia Ceramic alignment sleeves, color black
106145-0100		Adapter, 2 position, Multimode Phosphor Bronze alignment sleeves, color black
106144-0100		Adapter, 4 position, Multimode Phosphor Bronze alignment sleeves, color black
106146-0100		Adapter, 8 position, Multimode Phosphor Bronze alignment sleeves, color black
106145-1500	BLC/APC Adapter	Adapter, 2 position, Singlemode APC Zirconia Ceramic alignment sleeves, color green
106144-1500		Adapter, 4 position, Singlemode APC Zirconia Ceramic alignment sleeves, color green
106146-1500		Adapter, 8 position, Singlemode APC Zirconia Ceramic alignment sleeves, color green

BLC connectors are supplied in cable assembly form only

Connector part numbers are for reference drawing only, all assemblies will be assigned custom part numbers

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