Compact and re-matable optical interconnect in the footprint of a fusion splice

The SnapMate Optical Interconnect System provides the benefits of a re-matable optical connector with the small size of an optical fusion splice. It is designed using high-precision singlemode LC connector and adapter components and a compact, re-usable polymer housing, providing a reduced overall size and optimum optical performance.

The SnapMate’s one-inch long receptacle connects the terminated LC-style ceramic ferrules with a ceramic alignment sleeve. This design allows the receptacle to be easily opened and re-assembled for removal and re-mating of the optical components. The low-cylindrical profile of the assembly and short overall length are suitable for use within equipment and can be incorporated onto a circuit board without consuming substantial mounting space or obstructing the air-flow path within a system.

The SnapMate Interconnect System complements Molex’s existing robust line of optical products. For more information on optical product offerings, please visit: www.molex.com/fiber.

Features and Benefits

Ceramic ferrule and alignment sleeve provides high-precision components with industry-proven low insertion loss

Low-profile housing minimizes required mounting space on PCB and allows air-flow path to be practically unobstructed

Re-usable housing (up to 5 mating cycles) allows for testing and reconfiguration to achieve optimum performance

Applications

Telecommunication Equipment
- Servers
- Switches
- Routers

Other Markets
- Storage servers
- Test equipment
- OEM equipment
Specifications

REFERENCE INFORMATION
Reference Information
Packaging: Individual bag
Designed In: Millimeters

MECHANICAL
Durability:
  Plugs: ≥ 200 mate and de-mate cycles
  Housing: 5 cycles min.
Insertion Loss: ≤ 0.15dB typical

PHYSICAL
Housing: Polymer
Ferrule: Zirconia Ceramic
Alignment Sleeve: Zirconia Ceramic
Operating Temperature: -40 to +85°C

Ordering Information

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<th>Order No.</th>
<th>Mode</th>
<th>Components</th>
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<tbody>
<tr>
<td>106073-0020</td>
<td>Singlemode</td>
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<td>(1) Housing, (1) Alignment Sleeve</td>
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<td>Singlemode</td>
<td>(1) LC Plug with Ceramic Ferrule, (1) Spring</td>
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