In order to ensure the highest technical performance and to provide an optimum solution for high density packaging, DIAMOND has developed the Diamond Micro Interface (DMI) connection system.

Thanks to its minimal space requirement, this system is an ideal solution for Printed Circuit Board (PCB) applications as well as a high quality interface between active and passive components of fiber optic installations. As such it has been used to replace splices, in some applications, improving the modularity at a low height budget impact.

DMI connectors are based on standard ø2.5 mm ferrules and are designed to operate with multimode and single mode fibers, 0° PC as well as 8° APC polished. Furthermore the DMI is also available as PM (Polarization Maintaining) interface.

FEATURES AND BENEFITS

- Minimum space requirement (footprint of 4.5 x 21 mm)
- Consistent high performance solution
- Available in PC, APC and PM termination
- Available in PS on custom request due to laser safety issues
- Standard active fiber core aligned DIAMOND ø2.5 mm ferrule
- Easy installation by use of standard clip-on system.
- DMI assembly tool is available.

AVAILABLE AS

- Terminated connector

SPECIFICATIONS

<table>
<thead>
<tr>
<th>TEST CONDITIONS</th>
<th>SINGLE MODE 8° APC</th>
<th>SINGLE MODE 0° PC</th>
<th>MULTIMODE 0° PC</th>
<th>MULTIMODE 8° APC</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEC 61300-3-6; ( \lambda ) = 1300/1550nm</td>
<td>-</td>
<td>-</td>
<td>typ. 0.15 max. 0.4</td>
<td>typ. 0.15 max. 0.4</td>
<td>dB</td>
</tr>
<tr>
<td>IEC 61300-2-2; ( \lambda ) = 1300/1550nm</td>
<td>-</td>
<td>-</td>
<td>typ. 0.1 max. 0.25</td>
<td>typ. 0.1 max. 0.25</td>
<td>dB</td>
</tr>
<tr>
<td>IEC 61300-3-4; ( \lambda ) = 1300/1550nm</td>
<td>-</td>
<td>-</td>
<td>typ. 0.15 max. 0.4</td>
<td>typ. 0.15 max. 0.4</td>
<td>dB</td>
</tr>
<tr>
<td>IEC 61300-3-6; ( \lambda ) = 1300/1550nm</td>
<td>-</td>
<td>-</td>
<td>min. 50</td>
<td>min. 50</td>
<td>dB</td>
</tr>
<tr>
<td>IEC 61300-3-4; ( \lambda ) = 1300/1550nm</td>
<td>-</td>
<td>-</td>
<td>min. 70*</td>
<td>min. 70*</td>
<td>dB</td>
</tr>
<tr>
<td>IEC 61300-3-6; ( \lambda ) = 1300/1550nm</td>
<td>-</td>
<td>-</td>
<td>max. ( \pm 0.05 )</td>
<td>max. ( \pm 0.05 )</td>
<td>dB</td>
</tr>
</tbody>
</table>

* Measured with high precision reflectometer
** May be further limited by fiber specifications

Specifications subject to change without notice

DIAMOND SA | Via dei Patrizi 5 | CH-6616 Losone - Switzerland
Tel. +41 58 307 45 45 | e-mail info@diamond-fo.com
www.diamond-fo.com
CONNECTOR TYPES AND DIMENSIONS

DMI connectors on 900 µm fiber, without boot

Available types:
- DMI - PC
- DMI - APC
- DMI - PC Low IL
- DMI - APC Low IL

Ferrule material: Zirconia/metal insert
External parts: Metal

ADAPTER TYPES AND DIMENSIONS

DMI mating adapters
External parts: Metal
Mating sleeve: Zirconia
Cap colors:
- Black for MM 0° PC
- Blue for SM 0° PC
- Green for SM 8° APC

DMI mating adapters clip
External parts: Metal (Cu Be2; tinned solderable)

Mounting tool and instructions:

PN: 1032053
DMI and Micro AVIM™ mounting tool

PN: 1009209
DMI and Micro AVIM™ Adapter Clip
CuBe Nickel coated (Screw not included)

ORDER INFORMATION

Please refer to the part numbers provided in the separate P/N list.
For assemblies or other configurations, please contact your nearest local Diamond representative or fill in the contact form available on the www.diamond-fo.com website.