**DIAMOND Fiber Optic Components**

**CABLE ASSEMBLIES AND ADAPTERS**

**FEATURES AND BENEFITS**
- Based on 2.5-mm Ferrula
- Up to 4 channels
- Hybrid, FO – Electrical contacts
- Genderless mating and self-aligning design
- Easy front-face ferrule access for cleaning & inspection
- Easy termini insertion and removal for field termination and repair
- Compatible with several fiber types such as MM, SM, PM, Power Solution and small-core fibers
- Available in PC and APC versions
- Steady and repeatable low IL and high return loss
- High and steady ER when terminated with PM fibers
- Lensed Ferrule 1.7mm
- Electrical pin: 20 AWG

**OPTICAL PERFORMANCES** (obtained with the diamond proposed cables)

<table>
<thead>
<tr>
<th>MEASUREMENT/TES</th>
<th>MULTIMODE</th>
<th>SINGLE MODE PC/APC</th>
<th>STANDARDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion loss (std. version)</td>
<td>typ. 0.20 dB max. 0.50 dB</td>
<td>typ. 0.15 dB max. 0.45 dB</td>
<td>IEC 61300-3-4 (λ = 1310 / 1550 nm)</td>
</tr>
<tr>
<td>Insertion loss (fusion version)</td>
<td>typ. 0.20 dB max. 0.50 dB</td>
<td>typ. 0.25 dB max. 0.45 dB</td>
<td>IEC 61300-3-4 (λ = 1310 / 1550 nm)</td>
</tr>
<tr>
<td>Insertion loss (PM version)</td>
<td>-</td>
<td>typ. 0.25 dB max. 0.45 dB</td>
<td>IEC 61300-3-4 (λ = 1310 / 1550 nm)</td>
</tr>
<tr>
<td>Return loss (Including connector loss)</td>
<td>min. 40 dB</td>
<td>min. 75 dB (APC) min. 50 (PC)</td>
<td>IEC 61300-3-6 (λ = 1550 nm)</td>
</tr>
<tr>
<td>Extinction Ratio</td>
<td>-</td>
<td>typ. 23 dB min. 20 dB</td>
<td>Diamond validated cross polarizers method (λ = 1550 nm)</td>
</tr>
</tbody>
</table>

**ELECTRICAL TESTS**

<table>
<thead>
<tr>
<th>MEASUREMENT/TEST</th>
<th>METHOD</th>
<th>VALUES SINGLE MODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulation resistant test</td>
<td>Resistance &gt;200 MΩ</td>
<td>IEC 60512-3-1: 2002 (500V / 60 s)</td>
</tr>
<tr>
<td>Voltage Proof fest</td>
<td>PASS</td>
<td>IEC 60512-4-1: 2003 (2500V / 60 s)</td>
</tr>
</tbody>
</table>

**Compact DM4**

(Harsh environment)

**DM4 (Multipurpose Termini)**

**DM Termini (Optical - electrical termini)**

Specifications subject to change without notice

BDD 1951960-21

BDD 1951962-21

BDD 1951961-21

800 1951961 02_21
MECHANICAL AND ENVIRONMENTAL CONDITIONS

<table>
<thead>
<tr>
<th>Condition</th>
<th>Temperature</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change of temperature</td>
<td>-40 / + 85 °C</td>
<td>IEC 61300-2-22</td>
</tr>
<tr>
<td>Low temperature</td>
<td>-40 °C (96h)</td>
<td>IEC 61300-2-17</td>
</tr>
<tr>
<td>High temperature</td>
<td>+85 °C (96h)</td>
<td>IEC 61300-2-18</td>
</tr>
<tr>
<td>Vibration</td>
<td>10/2000 Hz (3h)</td>
<td>MIL-STD-202G</td>
</tr>
<tr>
<td>Mating durability</td>
<td>500 cycles</td>
<td>IEC 61300-2-2</td>
</tr>
</tbody>
</table>

DIAMOND Zeus D50 HE FUSION SPLICER FOR FIELD INSTALLATION AND REPAIR

CONNECTOR TYPES AND DIMENSIONS

Compact DM4

Housing material: Anodized aluminum (black)

NOTE Other configuration available upon request.

ORDER INFORMATION

Please contact your nearest local Diamond representative or fill in the contact form available on the www.diamond-fo.com website.