EXPANDED BEAM INTERCONNECTS

LENSED REVOLUTION

EXPANDED BEAM INTERCONNECT SOLUTIONS

ROBUST. VERSATILE. EASY-TO-USE.

CONNECTOR BODIES

- E-2000® XB
- XB2

HARSH ENVIRONMENT SOLUTIONS

- Multichannel: 1-12 channels available
- Hybrid optical and electrical option

- MIL-38999 DM4 Family
- DM4
- MIL-83526 DM4
- Custom Housing
- HE-2000®

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ROBUST. VERSATILE. EASY-TO-USE.
Unlike conventional ferrules, the lensed-ferrule operates on the Expanded Beam principle, ensuring reliable and maintenance-free optical connections with insensitivity to dirt and debris. The use of high precision components and unique assembly techniques results in a highly repeatable, low insertion loss ferrule, that opens new perspectives in the context of optical connections, where mating-cycles, dust insensitivity, reliability and low losses are required.

**Advantages of Expanded Beam**

- Non-contact connection
- State-of-the-art optical performance
- High rate of mating cycles
- Insensitive to dirt and debris
- Low risk of damage
- Multichannel: 1-12 channels available
- High data rate capacity
- Easy cleaning process
- 150 x larger beam area

**Butt-joint connection**

**Expanded Beam connection**

**Optical specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Insertion Loss</td>
<td>Typical 0.6dB / Maximum 1dB per connection</td>
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<tr>
<td>Return Loss</td>
<td>Minimum 35dB</td>
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<tr>
<td>Optical power</td>
<td>Up to 3 Watts@1550nm</td>
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</tbody>
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**Features**

- Non-contact connection
- High precision ferrule
- High optical performance
- Single mode compatibility
- High data rate capacity
- On-site installable / field-repairable
- Various connector bodies available

**MODULAR LENSED INTERCONNECTS**

**ROBUST & HIGH PERFORMING**

**EXPANDED BEAM (XB) LENSED-FERRULE**

- High precision connector ferrule
- Single mode fibers 9µm
- Low Insertion Loss
- High power compatibility
- On-site installable / field-repairable
- Various connector bodies available