EZ-Bend® 4.8 & 3.0 Ruggedized Stapleable Cables

Features
- 3.0 and 4.8 diameter ruggedized cordage
- Less than 0.1 dB macrobending attenuation at 1550 nm for 1 turn at 5 mm fiber bend radius
- Macrobending attenuation less than 0.3 dB/Riser version and 0.5 dB/LSZH version at 1550 nm when subjected to MDU Simulation Test called out by ICEA S-115-730
- Solid construction fiber with macrobending performance far better than ITU G.657.B3 requirements
- Backward compatible with installed G.652.D fibers
- Conform to UL® Riser and Plenum fire ratings
- Compliant with Telcordia 409 & ICEA S-83-596 requirements
- Dry water-blocked core to protect against water ingress
- Reinforced solid jacket construction naturally limits cable bending to control macrobending attenuation and protect fiber reliability

Benefits
- **Staple friendly**: Ruggedized cords designed to allow common stapling methods
- **MDU and In-Home Optimized**: Ideal for in-residence wiring and difficult installation routes in MDU overbuilds
- **Faster, easier installation**: no extra steps to install bend limiters, conduits, or raceways
- **Compact installation and storage**: Conforms to building; slack fits in small spaces
- **Fast, easy, low loss splicing** to G.652.D fiber with existing core and clad aligned splice equipment
- **Familiar, standard connector termination**: Solid fiber construction can be terminated using standard optical connectors and polishing techniques
- **Familiar connector endface cleaning** using same process as with existing G.652 solid construction fiber
- **Greener Solution**: Free of heavy metals and RoHS-compliant; solution uses fewer total materials and energy than copper solutions

EZ-Bend Ruggedized Optical Cable Cross-Sections

With the EZ-Bend® 3.0 Ruggedized Cables, users have expanded options for MDU, in-home wiring and aggressive, space-constrained routing environments. When a low profile and durability are needed, select the 3.0 mm product. For more demanding deployments, the EZ-Bend 4.8 Ruggedized Cable is ideal. EZ-Bend cables are offered in indoor/outdoor, riser, plenum, and dual-rated low-smoke zero-halogen (LSZH) constructions. These cables can be routed around corners and stapled using traditional fast and easy installation practices, with negligible signal loss.
## Performance

### Flame Performance
- UL 1666 compliant
- NFPA 262 (UL 910) compliant
- UL 1666 and CPR Rated
- CPR Rated (See Table)
- Telcordia GR-409, ICEA S-83-596 compliant

### Mechanical and Environmental Performance
- CPR Rated
- Telcordia GR-409, ICEA S-83-596 compliant
- Temperature Range
  - Installation: 0 °C to 40 °C (32 °F to 104 °F)
  - Operation: -40 °C to 70 °C (-40 °F to 158 °F)
  - Storage: -40 °C to 70 °C (-40 °F to 158 °F)
- Maximum Tensile Rating
  - 440 N (100 lb)
- Attenuation
  - @ 1310 nm: Typical: 0.35 dB/km; Maximum: 0.4 dB/km
  - @ 1550 nm: Typical: 0.25 dB/km; Maximum: 0.3 dB/km

### Product Information

<table>
<thead>
<tr>
<th>Indoor/Outdoor</th>
<th>Riser</th>
<th>Riser/CPR (LSZH)</th>
<th>CPR (LSZH)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cable Outer Diameter - mm (in.)</strong></td>
<td>3.0 (0.12)</td>
<td>4.8 (0.19)</td>
<td>4.8 (0.19)</td>
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<tr>
<td><strong>Cable Weight - kg/km (lb/100ft)</strong></td>
<td>7.60 (0.51)</td>
<td>22.0 (1.48)</td>
<td>22.9 (1.53)</td>
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<tr>
<td><strong>Version</strong></td>
<td>C</td>
<td>D</td>
<td>E</td>
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<tr>
<td><strong>Fiber Count</strong></td>
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<td>1</td>
<td>1</td>
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<tr>
<td><strong>DOP Lookup</strong></td>
<td>IO48-001-E-D</td>
<td>LGIO-002-E-D</td>
<td>IR30-001-C-H</td>
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<tr>
<td><strong>CPR Rating</strong></td>
<td>Fca</td>
<td>Dca-s1, d1, a1</td>
<td>B2ca-s1, d0, a1</td>
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<tr>
<td><strong>Flame Rating</strong></td>
<td>OFNR</td>
<td>OFNR</td>
<td>OFNR/CPR</td>
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<tr>
<td><strong>Descriptor Black</strong></td>
<td>IR30-001C-DRK-4-WPVC</td>
<td>IO48-001D-DRK-4-WPVC</td>
<td>IR30-001C-DRK-4-WPVC</td>
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<td><strong>Descriptor White</strong></td>
<td>IO48-001E-DDK-4-UVB</td>
<td>LGIO-002E-DDK-4-4.8mm</td>
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<tr>
<td><strong>Indoor Only Plenum</strong></td>
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<tr>
<td><strong>Cable Outer Diameter - mm (in.)</strong></td>
<td>4.8 (0.19)</td>
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<tr>
<td><strong>Cable Weight - kg/km (lb/100ft)</strong></td>
<td>24.5 (1.65)</td>
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</tr>
<tr>
<td><strong>Version</strong></td>
<td>D</td>
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<tr>
<td><strong>Fiber Count</strong></td>
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<td></td>
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<tr>
<td><strong>Descriptor White</strong></td>
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</table>

* Dual-Rated Cables are rated for both riser and LSZH application use.

### Example of Standard Sheath Marking (Custom sheath marking available upon request)

Black-Jacketed Riser-Rated 4.8 Ruggedized I/O Cable with EZ-Bend Technology:

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**For additional information please contact your sales representative.**

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.