FIBERLIGN® Lite Tension Dead-end for ADSS

NOMENCLATURE
1. **Loop length**: Length from the color mark to the end of the loop.
2. **Loop diameter**: The loop has a formed diameter designed to interface with standard fittings.
3. **Color mark**: The Dead-end color mark or crossover mark locates the beginning of Dead-end contact with the cable during installation. It is used for identification as well.
4. **Dead-end legs**: The legs wrap onto the cable beginning at the crossover mark.
5. **Flared rod ends**: Special rod end treatment to prevent jacket damage.
6. **Latex coating**: Pliable coating applied over the Dead-end legs.
7. **Product ID tag**: Red Tag includes product description and application information.
8. **Pitch length**: The distance along the leg that represents one complete wrap of the formed helix around the circumference of the cable (360 degrees).

APPLICATION
The FIBERLIGN Lite Tension Dead-end is a dielectric Dead-end designed to terminate short span, low tension ADSS fiber optic cables in low voltage environments. Unlike the Limited, Medium, and High Tension FIBERLIGN® Dielectric Dead-end designs found later in this section, the Lite Tension Dead-end is reduced to a single layer component that offers an economical solution for very light loads. The product effectively transfers the low axial load on the cable at the end of the Dead-end legs to low uniform radial compression near the Dead-end loop.

**Superior Fatigue Strength**: The small diameter wires that comprise each Dead-end are a mixture of aluminum and aluminum clad steel to assure long term performance.

Dead-end performance depends upon a number of factors including cable brand and design, tension load requirements, temperature and environmental operating conditions among others.

The FIBERLIGN Lite Tension Dead-end has a pliable latex coating and flared rod end treatment that avoids possible damage to the cable jacket during and after installation.
**APPLICATION (continued)**

**ATTACHING TO THE STRUCTURE:** The loop diameter of the Lite Tension Dead-end will fit over a minimum diameter of 1.5” (38mm) and a maximum diameter of 2-1/4” (57 mm). The Lite Tension Dead-end is designed to accept common guy wire Dead-end pole fittings like thimble eyes and guy hooks.

**Appropriate Fittings**
The extended loop of the Dead-end reduces the need for an extension link; however, PLP can provide other FIBERLIGN® fittings including extension links (with thimble clevis) if desired. PLP offers the TC-5F Thimble Clevis, Thimble Eye, and LCE-55-14 Extension Link.

In general, Lite Tension Dead-ends are intended for use with these conditions and limitations:

- Light Tensions, approximately:
  - 600# (2.7 kN) maximum initial (stringing/nominal axial/long-term) tension
  - 800# (3.5 kN) maximum loaded (working/loaded axial/short-term) tension
- Short Spans:
  - 300' (91 m) maximum spans
  - Not recommended for critical crossing spans (highways, rivers, etc.) see Medium or High Tension Dead-ends
- Very low strength cables
- “Standard” jackets
- Most cable brands
- No excessive operating conditions, cable motion or high temperatures

**Lite Tension Dead-end features:**
- Standard design parameters
- Broad cable OD ranges, listed on ID tags
- Economical single component design
- Optimized compact length
- Fast easy installation
- Accepts standard pole line fittings
- Latex coated with flared rod ends
- Uniform pressure design
- Superior fatigue strength wire design

<table>
<thead>
<tr>
<th>Catalog* Number</th>
<th>Cable Diameter Range</th>
<th>Color Code</th>
<th>Overall Length</th>
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<tbody>
<tr>
<td>2875001</td>
<td>Min. (in) .375</td>
<td>Max. (in) .414</td>
<td>Min. (mm) 9.5</td>
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<tr>
<td>2875002</td>
<td>Min. (in) .415</td>
<td>Max. (in) .459</td>
<td>Min. (mm) 10.6</td>
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<tr>
<td>2875003</td>
<td>Min. (in) .460</td>
<td>Max. (in) .505</td>
<td>Min. (mm) 11.7</td>
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<tr>
<td>2875004</td>
<td>Min. (in) .506</td>
<td>Max. (in) .557</td>
<td>Min. (mm) 12.9</td>
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<tr>
<td>2875005</td>
<td>Min. (in) .558</td>
<td>Max. (in) .615</td>
<td>Min. (mm) 14.2</td>
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<tr>
<td>2875006</td>
<td>Min. (in) .616</td>
<td>Max. (in) .680</td>
<td>Min. (mm) 15.7</td>
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<td>2875007</td>
<td>Min. (in) .681</td>
<td>Max. (in) .750</td>
<td>Min. (mm) 17.4</td>
</tr>
</tbody>
</table>

*Add suffix code TE to include Thimble Eye (Cat. No. TE-5) Number – Mount with 5/8” or 16 m bolt and nut.