Typical Dead-End Anchor Detail

Typical False Dead-End Method

Detail A

Twine Eye

Detail B

Thimble Eye Bolt Method

Detail C

Clinching Clamp Method

Detail D

Typical Self Supporting Cable Method

Detail E

Typical Cable Lashing Detail Double Lashing For Railroad Crossings

Sheet Details

Texas Department of Transportation
Traffic Operations Manual
ITS FIBER OPTIC CABLE AERIAL INSTALLATION DETAILS
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Sheet 2 of 2

General Notes:

1. Provide outdoor rated non-prevent all dielectric type steel messenger support or non-prevent all dielectric self supporting fiber optic cable designed for aerial installation. Fiber optic cable constructed with integrated steel messenger cable is acceptable.

2. See plans for location and number of fiber optic cable guy. Contractor is to determine the quantity of cable storage racks required to accommodate the number of fiber optic cable guys as shown on the plans.

3. Do not store spare cable over roadways, driveways, railways, or buildings.

4. Provide required clearance from electrical power lines and other cables in accordance with Section 23 of the National Electric Safety Code (NESC).

5. Use the lashing wire method for lashing non-self-supporting fiber optic cable requiring lashing to a steel messenger cable.

6. Use a ladder to secure the fiber optic cable to the steel wire strand by wrapping the strand and cable in a spiral manner. The fiber optic cable must be installed without lashing, wrapping, or weaving along the strands. Adapting, yellow, or any kind of deformation of the cable will lead to a required replacement of the cable by the contractor.

7. Ensure at least one wrap of lashing wire per linear foot is provided when lashing the fiber optic cable to the steel messenger cable.

8. Provide enough size to lash the fiber optic cable without damaging the cable.

0.032" Lashing Wire with 360° Spiral per Foot Counter clockwise

Variations:

0.032" Lashing Wire with 360° Spiral clockwise

Variations:

0.032" Lashing Wire with 180° Spiral per Foot Counter clockwise

Variations:

0.032" Lashing Wire with 180° Spiral clockwise

Variations:

Variations:

Variations:

Variations: