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RESEARCH REPORT: RR 25944

REEVALUATION DUE  
DATE: September 1, 2019  
Issued Date: July 1, 2017  
Code: 2017 LABC

**GENERAL APPROVAL** – Renewal and Clerical Modification - SkyCam Fiber Optic Cable with Kevlar coating for Flying Camera Support at Sporting Venues

**DETAILS**

SkyCam Fiber optic cable is used to support an overhead flying camera at sporting venues. The cable is 0.115-inch diameter and is wound around a 4-inch diameter winch drum at one end and connected to the camera mount at the other end. The cable is wound and unwound from the winch drum to allow the movement of the camera. The fiber optic cable is made by Cortland Cable Company. The Flying camera is supported only during the sporting event and is then removed after each event. The cable is replaced annually with a new cable after each sporting season or after every 20 uses, whichever comes first. 2-inch wide by 0.133-inch thick ratcheting straps may be used to temporarily secure the winch to the supporting structure. The approval is to establish allowable tension value for the cable and its attachments.

**The Kevlar coated fiber optic cable and its attachments are approved for supporting the SkyCam Flying Camera subject to the following conditions:**

1. The tension load in the Kevlar wrapped fiber optic cable and its attachments shall not exceed 127-lb.
2. A Building Permit shall be obtained for each installation.
3. A Los Angeles City Standard Plan shall be used for each installation, or complete plans, details, and calculations prepared by a Licensed Civil or Structural engineer shall be submitted to the Department of Building and Safety for each installation.

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## SkyCam

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4. The Kevlar wrapped fiber optic cable shall be replaced with a new cable annually or after 20 uses, whichever comes first.
5. The cable and connectors shall be examined for wear prior to beginning of each event. Cable or attachments showing signs of wear or damage shall be replaced.
6. The connectors used with the Kevlar wrapped fiber optic cable shall be as shown on the attached diagrams and the redundant safety system as shown on the attached diagram shall be used for each installation.
7. The 2-inch wide polyester or PVC-impregnated polyester ratchet straps may be used for temporary restraint anchorage for the support of the Flying Camera with an allowable tension value of 1,200-lbs.

## DISCUSSION

The clerical modification is to update the report to the 2017 Los Angeles City Building Code.

The report is in compliance with the 2017 Los Angeles City Building Code.

The approval is based on strength, durability, and fatigue tests.

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this approval have been met in the project in which it is to be used.

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