

ORINATION FORM

Proposed Revisions to the Specifications

(Please provide all information - incomplete forms will be returned)

Date:

Office:

Originator:

Specification Section:

Telephone:

Article/Subarticle:

email:

Will the proposed revision require changes to:

Publication	Yes	No	Office Staff Contacted
Standard Plans Index			
Traffic Engineering Manual			
FDOT Design Manual			
Construction Project Administration Manual			
Basis of Estimate/Pay Items			
Structures Design Guidelines			
Approved Product List			
Materials Manual			

Will this revision necessitate any of the following:

Design Bulletin

Construction Bulletin

Estimates Bulletin

Materials Bulletin

Are all references to external publications current?

Yes

No

If not, what references need to be updated? (Please include changes in the redline document.)

Why does the existing language need to be changed?

Summary of the changes:

Are these changes applicable to all Department jobs?

Yes

No

If not, what are the restrictions?

Contact the State Specifications Office for assistance in completing this form.

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KEVIN J. THIBAUT
SECRETARY

MEMORANDUM

DATE: May 23, 2019
TO: Specification Review Distribution List
FROM: Dan Hurtado, P.E., State Specifications Engineer
SUBJECT: Proposed Specification: **6330100 Communication Cable.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Derek Vollmer of the State Traffic Engineering Research Lab (TERL) to modify the language.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or online at

<http://www2.dot.state.fl.us/ProgramManagement/Development/IndustryReview.aspx> .

Comments received after **June 20, 2019**, may not be considered. Your input is encouraged.

DH/dt
Attachment

COMMUNICATION CABLE.
(REV 5-9-19)

ARTICLE 633-1 is deleted and the following substituted:

633-1 Description.

Furnish and install underground and aerial communication cable as shown in the Plans and -Standard Plans.

SUBARTICLE 633-3.1.4 is deleted and the following substituted:

633-3.1.4 Slack Cable Storage: Provide and store fiber optic cable at each pull box and splice box to allow for future splices, additions, or repairs to the fiber network. Store the fiber optic cable without twisting or bending the cable below the minimum bend radius.

Store a total of 200 feet of fiber optic backbone cable in splice boxes, with 100 feet of cable on each side of the cable splice point or as shown in the Plans.

Store a minimum of 100 feet of fiber optic drop cable in splice boxes or as shown in the Plans.

Store 50 feet of spare fiber optic cable in pull boxes.

SUBARTICLE 633-3.1.5.2 is deleted and the following substituted:

633-3.1.5.2 Splice Equipment: Use a fusion splice machine to splice all optical fiber. Ensure that splice equipment is new from the factory, or serviced and certified by the factory or its authorized representative within the previous 612 months from the commencement of its use. Ensure that the calibration certificate is maintained in the splicing equipment case or provided electronically when requested. Submit to the Engineer documentation from the manufacturer or his authorized representative certifying compliance. Clean all splicing equipment and calibrate according to the manufacturer's recommendations prior to each splicing session at each location.

SUBARTICLE 633-3.1.8 is deleted and the following substituted:

633-3.1.8 Installation Testing: Notify the Engineer of cable testing at least 14 calendar days in advance. Submit the testing procedures to the Engineer for approval prior to commencement of testing. Perform all tests at 1,310/1,550 nanometer wavelengths, and include the last calibration date of all test equipment with the test parameters set on the equipment in the test documentation. Ensure that the last calibration date of all test equipment is within the last 12 months and that the calibration date certificate is firmly affixed to each piece of maintained in the test equipment case or provided electronically when requested. Test all installed fibers (terminated and un-terminated) using methods approved by the Engineer.

SUBARTICLE 633-5.1 is deleted and the following substituted:

633-5.1 General: The quantities to be paid will be: the length, in feet, of fiber optic cable; ~~the number, per each, of fiber optic connections;~~ ~~the number, per each, of fiber optic connection hardware;~~ and ~~the length, per foot, of twisted pair cable, accepted by the Engineer.~~