

ORIGINATION FORM

Date: Nov. 6, 2013

Originator: Chester Henson

Contact Information: chester.henson@dot.state.fl.us

Specification Title: Span Wire Assembly

Specification Section, Article, or Subarticle Number: 634-2.5 (New Subarticle)

Why does the existing language need to be changed? This language was dropped when Section 632A was merged into Section 634.

Summary of the changes: Added material requirements for cable ties.

Are these changes applicable to all Department jobs? Yes

If not, what are the restrictions?

Will these changes result in an increase or decrease in project costs? No

If yes, what is the estimated change in costs?

With who have you discussed these changes? Traffic Operations, Specifications and Construction

What other offices will be impacted by these changes? None

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? No

Are all references to external publications current? None

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

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? No

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

Daniel Scheer 850-414-4130 daniel.scheer@dot.state.fl.us

Frances Thomas 850-414-4101 frances.thomas@dot.state.fl.us

Debbie Toole 850-414-4114 deborah.toole@dot.state.fl.us

Andy Harper 850-414-4127 clifton.harper@dot.state.fl.us

Ray Haverty 850-414-4129 ray.haverty@dot.state.fl.us

Toole, Deborah

From: Meyer, Ronald G.
Sent: Friday, November 15, 2013 3:44 PM
To: Scheer, Daniel; Toole, Deborah
Cc: Tillander, Trey; Henson, Chester; Morgan, Jeffrey; El-Urfali, Alan
Subject: RE: COPS questions

Alan and I discussed and like what Dan proposes. Put it in 632 and then reference back to 632 in the subsequent sections. Looks like you've already done the markups to make that happen, so are we all good?

Thanks,

--Ron

Ronald Meyer
Specifications and Product Evaluation Manager
FDOT Traffic Engineering and Operations Office/Traffic Engineering Research Lab
2612 Springhill Road
Tallahassee, FL 32305
DIRECT 850-921-7365, FAX 850-921-7351
ronald.meyer@dot.state.fl.us

Please note: Florida has a very broad public records law. Most written communications, including e-mail, are subject to such laws and thus subject to disclosure. All e-mail sent and received is captured by our server and kept as a public record.

From: Scheer, Daniel
Sent: Thursday, November 14, 2013 3:01 PM
To: Toole, Deborah; Morgan, Jeffrey; Meyer, Ronald G.; El-Urfali, Alan
Cc: Tillander, Trey; Henson, Chester
Subject: RE: COPS questions

Ron / Alan:

I know we discussed this – but I just need y'all to please make 632/633 & 634 consistent. We don't want to repeat the exact same information in all three places, the suggestion is to place the Materials information in the most highly expected Spec (y'all to decide which is most likely to be the 'common' spot for it) and then reference that Spec in the other similar specs...

Does this make sense?

Thanks,

Dan

Daniel L. Scheer, P.E.
State Specifications Engineer
(850) 414-4130

From: Toole, Deborah
Sent: Friday, November 08, 2013 2:37 PM
To: Morgan, Jeffrey; Meyer, Ronald G.; El-Urfali, Alan
Cc: Scheer, Daniel; Tillander, Trey; Henson, Chester
Subject: COPS questions

Hey Guys,

Please review the attached. We have received proposed changes to Section 634 and we have questions related to the incorporation in the Standard Specs for A632-2.1 through A632-2.4.

COPS Specifications Plan

As-of-September-11, 2013

Product/Specification-Name	MSTCSD-Sections	SSRBC-Sections	Implementation-Schedule	Originator
Traffic Control Signal and Device Evaluation and Certification/Approval	A601	PCH (re: 6-1.3 or 105 or 603)	July 2014	EI-Urfali
Quality System Requirements	A602	PCH (re: 6-1.3 or 105 or 603)	July 2014	EI-Urfali
Truck Mounted Incident Management Dynamic Message Signs	A610	990.3 or 102	July 2014	Morgan
Environmental Requirements	A615	603, PCH, and Various	January 2015	EI-Urfali
Signal Installation Grounding	A620	620	July 2012	
Conduit	A630	630	January 2013	
Signal Cable	A632-2.1	632	July 2013	Morgan
Interconnect Cable	A632-2.2	633	July 2013	Morgan
Support Wire & Cable Attachment Hardware (Fiberglass Insulator)	A632-2.3, A632-2.4	634	July 2014	Henson
Pull & Junction Box	A635	635	July 2013	Morgan

According the above,

A632-2.1 was to be included in Section 632 (this was done)

A632-2.2 was to be included in Section 633 (this was done)

A632-2.3 and A632-2.4 were to be included in Section 634.

However, A632-2.3 was included in Section 633 and A632-2.4 is included in both Sections 632 and 633. (see attached).

Dan (Scheer) has suggested the following:

632-2 Materials.

→ Use only new materials meeting the requirements of this Section.

→ **632-2.1 Signal Cable:** Use either polyethylene insulated, polyvinyl chloride jacketed signal cable conforming to the requirements of the International Municipal Signal Association, Inc. (IMSA) Specification No. 19-1 or polyethylene insulated, polyethylene jacketed signal cable conforming to the requirements of IMSA Specification No. 20-1. Use signal cable conductors of stranded copper, No. 14 AWG or larger.

→ ~~632-2.2 Cable Support Wire: Provide support wire, whether separate from or integral to aerial interconnect cable, having a minimum diameter of 6.35mm and meeting the requirements in Section 633.~~

→ **632-2.3 Signal Cable Attachment Hardware:** Ensure that all bolts and nuts less than 5/8 inch in diameter are passivated stainless steel, Type 316 or Type 304 and meet the requirements of ASTM F593 and ASTM F594 for corrosion resistance. Ensure that all bolts and nuts 5/8 inch and over in diameter are galvanized and meet the requirements of ASTM A307. Use attachment hardware with sufficient tensile strength for the application. Use stainless steel lashing wire, galvanized or stainless steel lashing rod, cable rings or self-locking cable ties of UV stabilized black plastic having a minimum tensile strength of 100 pounds.

Formatter

Comment
existing Sec
Min. Spec.

Comment

cables for copper connections in traffic signal closed loop systems.

→ ~~633-2.3 Communication Cable Support Wire: Provide support wire, whether separate from or integral to aerial interconnect cable, having a minimum diameter of 6.35mm and meeting the requirements in Section A634. Meet the requirements of 632-2.2.~~

→ ~~633-2.4 Aerial Cable Attachment Hardware: Use attachment hardware with sufficient tensile strength for the application. Ensure that all bolts and nuts less than 5/8 inch in diameter are passivated stainless steel, Type 316 or Type 304 and meet the requirements of ASTM F593 and ASTM F594 for corrosion resistance. Ensure that all bolts and nuts 5/8 inch and over in diameter are galvanized and meet the requirements of ASTM A307. Use stainless steel lashing wire, galvanized or stainless steel lashing rod, cable rings or self locking cable ties of UV stabilized black plastic having a minimum tensile strength of 100 pounds. Meet the requirements of 632-2.3.~~

Or; as an alternative, Chester has suggested putting ALL the language that was (or is) in A632-2 in Section 634 and reference Section 634 in Sections 632 and 633.

If you have any questions, please call Dan (414-4130) or me.

Thanks.....Debbie ☺

Deborah Toole
Specifications Development Specialist
State Specifications Office
605 Suwannee Street
Tallahassee, FL 32399-0458

deborah.toole@dot.state.fl.us
850-414-4114



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

MEMORANDUM

DATE: December 23, 2013
TO: Specification Review Distribution List
FROM: Daniel Scheer, P.E., State Specifications Engineer
SUBJECT: Proposed Specification: **6320200 Signal Cable.**

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

This change was proposed to remove redundancy in Specification Sections 632, 633 and 634.

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 to my attention via e-mail at SP965DS, or daniel.scheer@dot.state.fl.us. Comments received after **January 20, 2014**, may not be considered. Your input is encouraged.

DS/dt
Attachment

SIGNAL CABLE.
(REV 11-18-13)

Use only new materials meeting the requirements of this Section.

632-2.1 Signal Cable: Use either polyethylene insulated, polyvinyl chloride jacketed signal cable conforming to the requirements of the International Municipal Signal Association, Inc. (IMSA) Specification No. 19-1 or polyethylene insulated, polyethylene jacketed signal cable conforming to the requirements of IMSA Specification No. 20-1. Use signal cable conductors of stranded copper, No. 14 AWG or larger.

632-2.2 Cable Support Wire: *Provide support wire, whether separate from or integral to aerial interconnect cable, having a minimum diameter of 6.35 mm and meeting the requirements in Section 633.*

632-2.2-3 Signal Cable Attachment Hardware: Ensure that all bolts and nuts less than 5/8 inch in diameter are passivated stainless steel, Type 316 or Type 304 and meet the requirements of ASTM F593 and ASTM F594 for corrosion resistance. Ensure that all bolts and nuts 5/8 inch and over in diameter are galvanized and meet the requirements of ASTM A307. Use attachment hardware with sufficient tensile strength for the application. Use stainless steel lashing wire, galvanized or stainless steel lashing rod, cable rings or self-locking cable ties of UV stabilized black plastic having a minimum tensile strength of 100 pounds.

Formatted: Font: Bold

Comment [dt1]: Moved from Section 633.