

Acceptance of Detector Loop Wire

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BASIS

Material quality of wires coded 5010 is monitored by the Materials Division per their quality monitoring procedure(s). Acceptance of wires coded 5010 is based on:

- Determining what wire is being used
- Confirming it is the appropriate wire
- Verifying the wire is approve listed
- Documenting wire information to project records

PROCEDURE

1. Determine what wire is being used.

a) Verify wire characteristics: Wire should consist of one individually insulated copper conductor inside an outer jacket, all new material with undamaged insulation and jacket.

b) Verify required wire markings: Wire must be clearly marked on outer surface of jacket at approximately 2 ft. intervals with:

Name of Manufacturer

Year manufactured

Type: IMSA 51-5 or if specified otherwise in plans, then as specified in plans

Voltage rating: 600V

c) Whenever possible, verify required reel markings: Reel must be plainly and permanently marked with Manufacturer's full description of the wire, giving the type and length of wire on the reel, the number and size of conductor in the wire (14 AGW unless otherwise noted on plans) and the voltage rating. (600V).

2. Verify the wire being used is the same wire required by the plans

3. Verify the wire has an unexpired listing on the Approved Products List with a Field Acceptance Method of 5010.(1).

Product Category: Elec. Wire/Cable, Traf Signal (738.01)

Material: elec009, Elect Cable, Vehicle Detector Loop

Specification: 738.01(c)

Listing Method Example (by Type): IMSA 51-5 (P/S m00000), Manufacturer's Name

4a. For all SiteManager projects: Required documentation involves the Residency capturing data in an electronic SiteManager Contract Sample Information / AM5010 Test Template Record.

4b. For Non-SiteManager projects: Key data fields of the SiteManager method are recreated on Reference Document Form 5010-F1. Printing and completion of a Form 5010-F1 by the Residency and placement of it by them in their Non-SiteManager project file is the acceptable method.(2)

NOTES

1. Verification of wire used should be an ongoing effort throughout project duration.

2. This Acceptance Method has a delivery/usage point and time focus: What wire was delivered, will be or is being used on the project, and is it pre-approved? This is the most accurate and thus desirable point and time to verify, control and document actual pre-approved wire usage.

Wires with an unexpired listing on the Approved Products List and a Field Acceptance Method of 5010 are pre-approved and do not require any project-level material, manufacturer or supplier certifications or testing as evidence of their material quality or material acceptability.

Oklahoma DOT Materials Field Acceptance Method: **5010**

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FREQUENCY

Minimum is once per Product Name listing per project, with reasonable awareness that the appropriate nature and product information are unchanged.

REFERENCE DOCUMENTS

- (1) Approved Product Lists may be found in the Approved List section of the Materials & Testing e-Guide at: https://www.ok.gov/odot/Doing_Business/Materials/
- (2) [5010-F1](#) - Acceptance Form for Detector Loop Wire on Non-SiteManager Projects

Revision 3/16/2015: Changed Materials & Testing e-Guide link, in Reference Documents (1) above, to new Materials & Testing e-Guide web page link.

Revision 7/6/2016: Changed Materials & Testing e-Guide hyperlink, in Reference Documents (2) above, to current Materials & Testing e-Guide URL.