
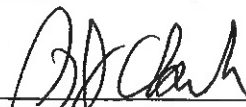


To:  <p style="text-align: center;"><b>SUPERSEDED BY</b>  <u>EB 06-057</u>  <b>EFFECTIVE</b> <u>5/3/07</u></p>		<p style="text-align: center;"><i>New York State Department of Transportation</i>  <b>ENGINEERING INSTRUCTION</b></p>	<p style="font-size: 2em; font-weight: bold;">EI</p> <p style="font-size: 1.2em; font-weight: bold;">04-003</p>
<b>Title: SPECIFICATION REVISION FOR SINGLE-CONDUCTOR DIRECT-BURIAL CABLE</b>			
<b>Distribution:</b> <input checked="" type="checkbox"/> Manufacturers (18) <input type="checkbox"/> Local Govt. (31) <input type="checkbox"/> Agencies (32) <input type="checkbox"/> Surveyors (33) <input type="checkbox"/> Consultants (34) <input checked="" type="checkbox"/> Contractors (39) <input type="checkbox"/> _____ ( )	<b>Approved:</b> <div style="text-align: center;">         _____        Philip J. Clark, PE        Deputy Chief Engineer, Design     </div> <div style="text-align: right; margin-top: 10px;"> <u>01/13/04</u>        Date     </div>		

**ADMINISTRATIVE INFORMATION:**

- This Engineering Instruction (EI) is effective immediately.
- This EI does not supersede any other issuances.
- The Standard Specification revisions issued with this EI will be incorporated into the next update of the Standard Specifications.

**PURPOSE:** The purpose of this EI is to revise §723-71 of the Standard Specifications.

**TECHNICAL INFORMATION:**

Standard Specification §723-71 refers to ICEA and NEMA standards which are outdated and have been superseded. ICEA publication No S-95-658 supersedes S-66-524 which is referenced in the specification. NEMA Publication No. 7C-70 (Nonshielded 0-2 kV Cables) replaces WC-7 (Thermoplastic-Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy).

**IMPLEMENTATION:**

- Engineers-in-Charge of ongoing contracts, including those submitted for lettings prior to 5/06/04, should file a copy of this EI in the contract records as documentation of the change in accordance with the Contract Administration Manual (CAM) §104-03 *Contingencies, Extra Work and Deductions*.
- The Design Quality Assurance Bureau will include the attached shelf note revising the specification in the proposal for projects submitted beginning with the letting of 05/06/04.

**TRANSMITTED MATERIALS:** Attached is the shelf note revising §723-71 of the Standard Specifications.

**CONTACT:** Direct questions regarding this EI to Mark Pasko of the Traffic Engineering and Highway Safety Division at (518) 485-1890 or via e-mail at [mpasko@dot.state.ny.us](mailto:mpasko@dot.state.ny.us).

## **SINGLE CONDUCTOR DIRECT BURIAL CABLE**

Make the following changes to Volume 3 of 3 of the Standard Specifications of January 2, 2002.

Page 7-232, delete lines 29 through 39 and replace with the following:

### **723-71 SINGLE CONDUCTOR DIRECT BURIAL CABLE**

**SCOPE.** This specification covers the material and quality requirements for direct burial 600V type USE cable for use in conduit or in trenches as shown on the plans and as directed by the Engineer..

**MATERIAL REQUIREMENTS.** Cable shall bear Underwriters Laboratories Label for type USE. It shall consist of copper conductor and insulation constructed to conform to ICEA (Insulated Cable Engineers Association) Pub. S-95-658 and NEMA Pub. No. 7C-70 (Nonshielded 0-2kV Cables) or their equivalent.

Cable shall consist of 7 copper strands up to and including #2 AWG and shall be constructed of 19 copper strands for sizes larger than #2 AWG.

Insulation shall be chemically cross-linked (vulcanized) polyethylene insulating compound.

Cable shall be mechanically spliced and insulated using the highest quality poured splices available for underground 600V cables.

Cable shall be factory or shop twisted in a duplex or a triplex configuration in accordance with the publications listed above or as shown in the contract documents.