

May 5, 2011

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SUBJECT 1493

OUTLINE OF INVESTIGATION
FOR
UNDERGROUND LOW-ENERGY CIRCUIT CABLE

ISSUE NUMBER: 5

May 5, 2011

Summary of Topics

This is the Fifth Issue of the Outline of Investigation for Underground Low-Energy Circuit Cable. This new issue corrects the Fourth issue which inadvertently limited the Crushing Resistance Test of Insulation, instead of the Crushing Test for Cable Marked for Direct Burial, to cables rated over 30 V. This issue becomes effective June 20, 2011. See the First Issue for the current requirements until the effective date is met.

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INTRODUCTION

See the First Issue for the current requirements until the effective date is met.

1 Scope

Section 1 effective June 20, 2011

1.1 This Outline covers the requirements for single or multiple conductor cables intended for direct burial in accordance with the National Electrical Code (NEC), ANSI/NFPA 70. The wire is rated 150 V ac or dc max. and 60, 75, or 90°C. These cables are intended to be connected to a Class 2 or Class 3 power source as defined by Tables 11(A) and 11(B) of the NEC.

2 Units of Measurement

Section 2 effective June 20, 2011

2.1 In addition to being stated in the inch/pound units that are customary in the USA, each of the requirements in this outline is also stated in units that make the requirement conveniently usable in countries employing the metric system (practical SI). Equivalent – although not necessarily exactly identical – results are to be expected from applying a requirement in USA or metric terms. Equipment calibrated in metric units is to be used when a requirement is applied in metric terms.

3 Components

Section 3 effective June 20, 2011

3.1 Except as indicated in 3.2, a component (including gaskets and polymeric materials) of a product covered by this outline of investigation shall comply with the requirements for that component.

3.2 A component is not required to comply with a specific requirement that:

- a) Involves a feature or characteristic not required in the application of the component in the product covered by this outline of investigation, or
- b) Is superseded by a requirement in this outline of investigation.

3.3 A component shall be used in accordance with its rating established for the intended conditions of use.

3.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.