UL 1493

Outline of Investigation for Underground Low-Energy Circuit Cable

Issue Number: 6

September 4, 2015

Summary of Topics

This Sixth issue of the Outline of Investigation for Underground Low-Energy Circuit Cable, UL 1493, is being issued to clarify the intended use and electrical ratings, and to add the optional mark for direct burial.

UL's Outlines of Investigation are copyrighted by UL. Neither a printed nor electronic copy of an Outline of Investigation should be altered in any way. All of UL's Outlines of Investigation and all copyrights, ownerships, and rights regarding those Outlines of Investigation shall remain the sole and exclusive property of UL.

COPYRIGHT © 2015 UNDERWRITERS LABORATORIES INC.

No Text on This Page

CONTENTS

INTRODUCTION

;	1 Scope 2 Components 3 Units of Measurement 4 Undated References	4
CONS	STRUCTION	
;	5 Materials and Workmanship 6 General 6.1 Assembly 6.2 Conductors 6.3 Insulation	5 5 5
PERF	6.4 Jacket FORMANCE	S
	7 General	ć
MARI	KINGS	
	8 General	

INTRODUCTION

1 Scope

1.1 This Outline covers the requirements for single or multiple conductor cables intended for underground use in accordance with the National Electrical Code (NEC), NFPA 70. The wire is rated 30 V or 150 V ac or dc 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 Components

- 2.1 Except as indicated in 2.2, a component (including gaskets and polymeric materials) of a product covered by this outline of investigation shall comply with the requirements for that component.
- 2.2 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 - b) Is superseded by a requirement in this outline of investigation.
- 2.3 A component shall be used in accordance with its rating established for the intended conditions of use.
- 2.4 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.

3 Units of Measurement

3.1 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.