

## Company Directive

### POLICY DOCUMENT: CA2/2

#### Relating to the cable to be used on the 11kV distribution system

##### Policy Summary

This document details the Company requirements for the type of cable to be used on the National Grid 11kV distribution system.

**Author:** Richard Summers

**Implementation Date:** January 2023

**Approved by**



Carl Ketley-Lowe  
Engineering Policy Manager

**Date:** 3<sup>rd</sup> January 2023

Target Staff Group	All staff involved with 11kV cables
Impact of Change	Green – No major impact
Planned Assurance checks	Checks will be made during Assurance and Sit Safety visits

**NOTE:** The current version of this document is stored in the NGED Corporate Information Database. Any other copy in electronic or printed format may be out of date. Copyright © 2023 National Grid Electricity Distribution

## **IMPLEMENTATION PLAN**

### **Introduction**

This document details the sizes and types of 11kV cables used on the National Grid distribution system.

### **Main Changes**

Updated to reflect a move to XLPE cables from March 2023.  
Losses strategy removed from this ST – Refer to SD3 for details

### **Impact of Changes**

XLPE will become a cable for use within NGED. The E5 commodity code will remain the same and CROWN will be updated with the new costs.

### **Implementation Actions**

None, a briefing will be communicated to the business and ICP's separately to explain the changes.

### **Implementation Timetable**

The new cable will start to be available in March 2023.

## REVISION HISTORY

Document Revision & Review Table		
Date	Comments	Author
January 2023	<ul style="list-style-type: none"><li>• Introduction of XLPE cables with fully bonded insulation screen.</li><li>• Losses strategy removed from this ST – Refer to SD3 for details</li></ul>	Richard Summers
May 2022	<ul style="list-style-type: none"><li>• Document reviewed – no changes made.</li></ul>	Richard Summers
May 2019	<ul style="list-style-type: none"><li>• Document reviewed – no changes made.</li></ul>	Richard Summers
June 2016	<ul style="list-style-type: none"><li>• Minor changes have been made to ensure the document covers the whole of WPD area and covers all cable sizes currently used.</li><li>• Losses strategy added to the document.</li></ul>	Peter White

## Contents

1.0	INTRODUCTION.....	5
2.0	POLICY FOR 11kV UNDERGROUND DISTRIBUTION CABLES.....	5
	APPENDIX A SUPERSEDED DOCUMENTATION.....	6
	APPENDIX B ASSOCIATED DOCUMENTATION.....	6
	APPENDIX C RECORD OF COMMENT DURING CONSULTATION .....	6
	APPENDIX D IMPLEMENTATION OF POLICY.....	6
	APPENDIX E KEY WORDS.....	6

## **1.0 INTRODUCTION**

This document describes the type of cable to be used on the National Grid 11kV distribution networks. XLPE cables will be introduced from March 2023.

## **2.0 POLICY FOR 11kV UNDERGROUND DISTRIBUTION CABLES**

6,350/11,000 Volt single core cables, that are then laid up in a triplex formation. The cables shall be constructed with a solid circular aluminium phase conductor of 95, 185 & 300mm<sup>2</sup>. In addition a stranded copper 300 and 400mm<sup>2</sup> and 630mm<sup>2</sup> (supplied as single core) phase conductor is required, a semi-conducting conductor screen, XLPE insulation, a fully bonded insulation screen, with 35mm<sup>2</sup> copper wire screen wires, complying with specification EE82.

## **APPENDIX A**

### **SUPERSEDED DOCUMENTATION**

This document supersedes POL: CA2/1 dated June 2016 which has now been withdrawn.

## **APPENDIX B**

### **ASSOCIATED DOCUMENTATION**

EE82

## **APPENDIX C**

### **RECORD OF COMMENT DURING CONSULTATION**

No comments received.

## **APPENDIX D**

### **IMPLEMENTATION OF POLICY**

Team managers to disseminate the information to their respective 11kV staff.

## **APPENDIX E**

### **KEY WORDS**

XLPE cable, 11kV triplex, 11kV single core.