

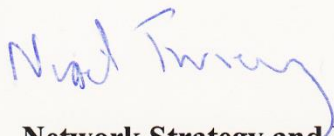
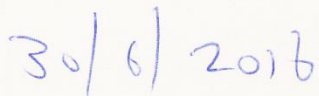
## **Company Directive**

### **POLICY DOCUMENT: CA3/2**

#### **Relating to the cable to be used on the 33kV system**

##### **Policy Summary**

This document details the Company requirements for the type of cable to be used on the Western Power Distribution 33kV distribution system.

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<b>Implementation Date:</b>	<b>June 2016</b>
<b>Approved by:</b>	 <b>Network Strategy and Innovation Manager</b>
<b>Date:</b>	

***All references to Western Power Distribution or WPD must be read as National Grid Electricity Distribution or NGED***

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## **IMPLEMENTATION PLAN**

### **Introduction**

Minor changes have been made to ensure the document covers the whole of WPD area and covers all cable sizes currently used.

### **Main Changes**

Minor changes have been made to ensure the document covers the whole of WPD area and covers all cable sizes currently used.

### **Impact of Changes**

None.

### **Implementation Actions**

Team managers to disseminate the information to their relevant staff.

### **Implementation Timetable**

This Standard Technique can be implemented with immediate effect.

## REVISION HISTORY

Document Revision & Review Table		
Date	Comments	Author
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></ul>	Peter White

## **1.0 INTRODUCTION**

This document describes the type of cable to be used on the Western Power Distribution plc's 33kV distribution networks.

## **2.0 POLICY FOR 33kV UNDERGROUND DISTRIBUTION CABLES**

19,000/33,000 Volt single core cable, the cable shall be constructed with a water blocked, stranded circular copper phase conductor of 185, 300 or 400mm<sup>2</sup>, a semi-conducting conductor screen, EPR insulation, a semi-conducting easy strip insulation screen, with 35mm<sup>2</sup> copper wire screen wires, a plastic lay-up tape and a medium density polyethylene (MDPE) coloured black oversheath, to British Standard Specification (BS) BS 7870 Part 4.10, Table 3.

Provision shall be made to prevent the longitudinal and radial transmission of water in the stranded copper conductor, using tape water blocking material.

## **3.0 POLICY FOR 33kV SUBSTATION CABLES**

19,000/33,000 Volt single core cable, the cable shall be constructed with a water blocked stranded circular copper phase conductor of 630mm<sup>2</sup>, a semi-conducting conductor screen, EPR insulation, a semi-conducting easy strip insulation screen, with 35mm<sup>2</sup> copper wire screen wires, a plastic lay-up tape and a medium density polyethylene (MDPE) coloured black oversheath, to British Standard Specification (BS) BS 7870 Part 4.10, Table 3.

Provision shall be made to prevent the longitudinal and radial transmission of water in the stranded copper conductor, using tape water blocking material.

## **APPENDIX A**

### **SUPERSEDED DOCUMENTATION**

This document supersedes POL:CA3/1 dated July 2006 which has now been withdrawn.

## **APPENDIX B**

### **ASSOCIATED DOCUMENTATION**

Specification EE 72

## **APPENDIX C**

### **IMPACT ON COMPANY POLICY**

None.

## **APPENDIX D**

### **IMPLEMENTATION OF POLICY**

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

## **APPENDIX E**

### **KEY WORDS**

EPR cable, Copper Wire Screen, 33kV single core.