

Company Directive

POLICY DOCUMENT: CA5

Relating to the Cables to be used on the Pilot, SWEDAT and Multicore Cable Systems

Policy Summary

This document details the Company requirements for the type of cables to be used on the Western Power Distribution (South West) and (South Wales) Pilot, SWEDAT and Multicore cable systems.

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Approved by


Design & Development Manager

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REVISION HISTORY

Document Revision & Review Table		
Date	Comments	Author
May 2019	<ul style="list-style-type: none">• Document reviewed – no changes made	Richard Summers
June 2016	<ul style="list-style-type: none">• Document reviewed - logo on front sheet updated	Richard Summers

1.0 INTRODUCTION

This document describes the type of Pilot, SWEDAT and multicore cable to be used on all new, diverted or existing circuits being added to the Western Power Distribution (South West) and (South Wales) plc's Pilot, SWEDAT or multicore systems.

2.0 POLICY FOR PILOT SYSTEMS

The standard pilot cables shall be 1/0.8mm, 7, 19 and 37 pair using a basic construction of solid copper conductor, polythene insulated with a wall thickness of 0.7mm, polythene inner-sheathed, jelly filled multipair armoured cables, with a PVC oversheath.

The finished cable shall generally meet the requirements of British Standard (BS) 7870, part 8.2, table 1 and ENA TS 09-06 table 3.8.

3.0 POLICY FOR SWEDAT SYSTEMS

The standard SWEDAT cables shall be 1/0.8mm, 5, 10 or 20 pair using the basic construction of solid copper conductor, polythene insulated with a 0.3mm wall thickness, inner sheathed, steel wire armoured and PVC oversheathed multipair light current control cables with a collective screen, which are intended primarily for use with control, indication and alarm equipment for switchgear and similar power apparatus, and are suitable for use on circuits where the working voltage does not normally exceed 150V d.c. or 110V a.c.

The finished cable shall generally meet the requirements of ENA TS 09-6 section 4 table 4.1.

4.0 POLICY FOR MULTICORE SYSTEMS

The standard multicore cables shall be 7/0.67mm, 4, 7, 12, 19 and 27 core. Stranded copper conductor, white type TII PVC conforming to BS7655-3.1 insulated and sheathed multicore steel wire armoured with a PVC oversheath cables, which are intended primarily for use within substations for remote operation of electrical equipment and for protection circuits, and are suitable for use on circuits having a working voltage up to and including 600/1000V.

The finished cable shall generally meet the requirements of British Standard (BS) 7870, part 8.1, table 1 and ENA TS 09-06 table 2.1.

Page revised 29 July 2009

APPENDIX A

SUPERSEDED DOCUMENTATION

This document has had minor amendments to bring it in line with current standards.

APPENDIX B

ASSOCIATED DOCUMENTATION

Specifications EE78, EE79 and EE80.
ENA TS 09-6 (1988)

APPENDIX C

IMPACT ON COMPANY POLICY

This Standard Technique has been issued to bring a similar standard and to ensure that practices are shared between WPD South Wales and South West.

APPENDIX D

IMPLEMENTATION OF POLICY

Nil.

APPENDIX E

KEY WORDS

Pilot cable, SWEDAT cable, Multicore cable.