



## **Company Directive**

STANDARD TECHNIQUE: CAØU/2

### Relating to Procedures for Making LV Service Cable Cut-Out Terminations

#### **Policy Summary**

This Standard Technique document contains all the approved LV Service Domestic and Street Lighting Cut-Out terminations for PVC Plain or Split Concentric cables. It shall be implemented in conjunction with the appropriate General Requirements in ST: CAØC.

This ST has not been written as a training document. It is not intended to be exhaustive in content and you must refer to your supervisor if you require training or instruction.

You shall work safely and skilfully, utilising the training/instruction you have already received, relating to the contents of this document and its cross-references.

You must make sure that you understand your job instructions and that you have the necessary tools and equipment for the job.

Author: Richard Summers

Implementation Date: July 2014

Approved by

**Policy Manager** 

Date: 8 Septembor 2014

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

This Standard Technique has been updated to correct errors in the numbering of the General Requirements and include the use of solvent wipes.

#### **Main Changes**

- General Requirement numbers amended
- Fire retardant boards included for all domestic cut-outs
- Solvent wipes included in the Standard Techniques

#### **Impact of Changes**

All new domestic cut-outs should now be fitted with fire retardant back boards as described 7.401, 7.402, 7.403 and 7.404.

#### **Implementation Actions**

Distribution Managers and Team Managers shall brief their teams on the contents of this policy to the relevant staff.

Word Processing to issue copies to paper manual holders (Midlands and South)

#### **Implementation Timetable**

Immediate

Document Revision & Review Table						
Date	Comments	Author				
July 2014	<ul> <li>Correction of General Requirement Numbers.</li> <li>Inclusion cable tie around phase insulation (cut-outs)</li> <li>Added fire retardant boards for all domestic cut-outs</li> </ul>	Richard Summers				

# ST: CAØU/2 PROCEDURES FOR MAKING LV SERVICE CABLE TERMINATIONS

#### INTRODUCTION

This Standard Technique Document contains all the approved service cable terminations, which shall be implemented in conjunction with the appropriate General Requirements contained in ST: CAØC, including: -

- 1. General Cleanliness and Accident Prevention
- 2. General Jointing Procedures Dead Cables
- 3. General Jointing Procedures and Safety Precautions Live Cables

If the need arises to undertake a Service Termination (i.e. non-standard) not covered within this Standard Technique the Policy Manager, Head Office, is to be consulted.

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Note: - Any reference to plain concentric equally applies to hybrid. The phase conductor insulation may be either XLPE or PVC.



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## ST: CAØU/2 PROCEDURES FOR MAKING SERVICE CABLE TERMINATIONS

## **JOINTING PROCEDURE 7.401**

# PVC PLAIN CONCENTRIC SERVICE CABLE 100A CUT-OUT TERMINATION - SINGLE PHASE

This procedure is to be read in conjunction with the appropriate General Requirements ST: CAØC Section 6 of the LV Service Cable Jointing Manual

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#### **MATERIALS LIST**

## CABLE SIZES - 25/35mm<sup>2</sup> Hybrid or 16/25mm<sup>2</sup> Cu Plain Conc

Item	Quantity
100A CNE 1ph cut-out	1
100A CNE 1ph cut-out cover	1

#### ADDITIONAL ITEMS FOR EACH TERMINATION

Materials for crutch seal where required. Seals Sealing wire

Note: - Individual material item numbers (SHOPS) are to be found in Section 4 of the LV Service Cable Jointing Manual.

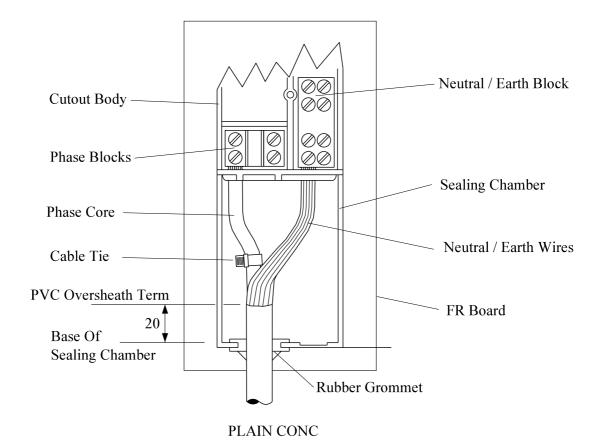
# Actions General Requirements (ST: CAØC)

Refer to Drawing SVJ 7.401.1 whilst undertaking this Jointing Procedure.

1.	Open and cut cable in accordance with General Requirement	13
2.	Prepare cut-out and fix to fire retardant board (fit PME link if appropriate)	)
3.	Cut cable to length (100mm above top of cut-out)	
4.	Fit rubber grommet to cable	
5.	Mark position of oversheath termination and remove	5
6.	Where the cut-out position is lower than the service cable route, a crutch seal may be applied if specified by the Supervisor.	32
7.	Form neutral/earth wires into a conductor	7
8.	Set phase and neutral/earth conductors into position	
9.	Make neutral/earth connection	
10.	Apply temporary shrouding to neutral/earth conductor and terminal block	17
11.	Cut phase conductor to length and remove insulation, depth of terminal barrel plus 5mm	
12.	Make phase connection and apply terminal block cover	
13.	Remove temporary shrouding applied in 10	
14.	Fit cable tie around phase insulation in the cable crutch	
15.	Fit cable cover and remaining cut-out covers	
16.	Apply phase identification, earthing and security labels	
17.	Check volts, polarity and earth loop impedance	
18.	Fit fuse carrier and seal	

#### All dimensions in mm

### Standard 100 Amp Single Phase Combined Neutral / Earth Cut - Out



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## ST: CAØU/2 PROCEDURES FOR MAKING SERVICE CABLE TERMINATIONS

## **JOINTING PROCEDURE 7.402**

# PVC SPLIT CONCENTRIC SERVICE CABLE 100A CUT-OUT TERMINATION - SINGLE PHASE

This procedure is to be read in conjunction with the appropriate General Requirements ST: CAØC Section 6 of the LV Service Cable Jointing Manual

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### **MATERIALS LIST**

### CABLE SIZES - 16/25mm<sup>2</sup> Cu Plain Conc

Item	Quantity
100A SNE 1ph cut-out	1
100A SNE 1ph cut-out cover	1

### ADDITIONAL ITEMS FOR EACH TERMINATION

Materials for crutch seal where required. Seals Sealing Wire

Note: - Individual material item numbers (SHOPS) are to be found in Section 4 of the LV service Cable Jointing Manual.

## Actions General Requirements (ST: CAØC)

Refer to Drawing SVJ.402.1 whilst undertaking this

	Jointing Procedure	
1.	Open and cut cable in accordance with General Requirement	13
2.	Prepare cut-out and fix to fire retardant board (fit PME link if appropriate)	)
3.	Cut cable to length (100mm above top of cut-out)	
4.	Fit grommet to cable	
5.	Mark position of oversheath termination and remove	5
6.	Where the cut-out position is lower than the service cable route, a crutch seal may be applied if specified by the Supervisor	32
7.	Form neutral wires into a conductor	7
8.	Form earth wires into a conductor	7
9.	Set phase, neutral and earth conductors into position	
10.	Make neutral and earth connections	
11.	Apply temporary shrouding to neutral, earth conductors and terminal block	17
12.	Cut phase conductor to length and remove insulation depth of terminal barrel plus 5mm	
13.	Make phase connection and apply terminal block cover	
14.	Remove temporary shrouding applied in 11	
15.	Fit cable tie around phase insulation in the cable crutch	

Fit fuse carrier and seal

16.

17.

18.

19.

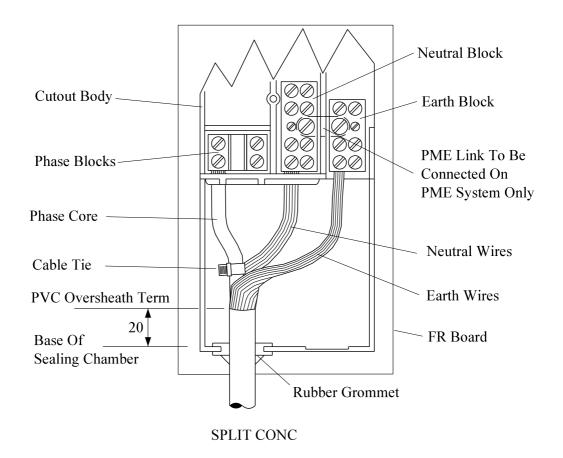
Fit cable cover and remaining cut-out covers

Check volts, polarity and earth loop impedance

Apply phase identification, earthing and security labels

#### All dimensions in mm

## Standard 100 Amp Single Phase Separate Neutral / Earth Cut - Out



1	RJB				09/14   CABLE TIE & FR BOARD ADDED			
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## ST: CAØU/2 PROCEDURES FOR MAKING SERVICE CABLE TERMINATIONS

## **JOINTING PROCEDURE 7.403**

# PVC PLAIN CONCENTRIC SERVICE CABLE 100A CUT-OUT TERMINATION - THREE PHASE

This procedure is to be read in conjunction with the appropriate General Requirements ST: CAØC Section 6 of the LV Service Cable Jointing Manual

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### **MATERIALS LIST**

## CABLE SIZES - 25/35mm<sup>2</sup> Hybrid or 16/25mm<sup>2</sup> Cu Plain Conc

Item	Quantity
100A CNE 1ph cut-out	1
100A single pole cut-out	2
100A CNE 3ph cut-out cover	1

#### ADDITIONAL ITEMS FOR EACH TERMINATION

Materials for crutch seal where required. Seals Sealing wire

Note: - Individual material item numbers (SHOPS) are to be found in Section 4 of the LV Service Cable Jointing Manual.

# Actions General Requirements (ST: CAØC)

	Refer to Drawing SVJ 7.403.1 whilst undertaking this Jointing Procedure	
1.	Open and cut cable in accordance with General Requirement	13
2.	Prepare cut-out and fix to fire retardant board (fit PME link if appropriate	e)
3.	Cut cable to length (100mm above top of cut-out)	
4.	Fit grommet to cable	
5.	Mark position of oversheath termination and remove	5
6.	Where the cut-out position is lower than the service cable route, a crutch seal may be applied if specified by the Supervisor	32
7.	Form neutral/earth wires into a conductor	7
8.	Set phase and neutral/earth conductors into position	
9.	Make connection neutral/earth	
10.	Apply temporary shrouding to neutral/earth conductor and terminal block	17
11.	Cut L3 phase conductor to length and remove insulation, depth of barrel plus 5mm	
12.	Make L3 phase connection and apply terminal block covers	
13.	Repeat actions 11 & 12 for L2 & L1 in turn	
14.	Remove temporary shrouding applied in 10	
15.	Fit cable tie around phase insulation in the cable crutch	
16.	Fit cable cover and remaining cut-out covers	
17.	Apply phase identification, earthing and security labels	
18.	Check volts, polarity, phase rotation and earth loop impedance	

19. Fit fuse carriers and seal

## All dimensions in mm Standard 100 Amp Three Phase Combined Neutral / Earth Cut - Out Cutout Body 00 Phase Blocks Neutral / Earth Block Phase Core Cable Tie Belt Tape Term 10 **PVC** Oversheath Term 20 Base Of Sealing Chamber Rubber Grómmet FR Board PLAIN CONC RJB 09/14 | CABLE TIE & FR BOARD ADDED Rev No Drawn Chk'd App'd Date Revision WESTERN POWER DISTRIBUTION ORIGINAL ISSUE DATE Design Department. Avonbank, Feeder Road, Bristol BS2 OTB Drawn RJB 04/12 Tel: 0117 933 2000 Fax: 0117 933 2001 Checked Title **PVC PLAIN CONC** Drg. No. Rev No Approved **CUTOUT TERMINATION** SCALE SVJ 7.403.1

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- THREE PHASE GENERAL LAYOUT

N.T.S.



## ST: CAØU/2 PROCEDURES FOR MAKING SERVICE CABLE TERMINATIONS

## **JOINTING PROCEDURE 7.404**

# PVC SPLIT CONCENTRIC SERVICE CABLE 100A CUT-OUT TERMINATION - THREE PHASE

This procedure is to be read in conjunction with the appropriate General Requirements ST: CAØC Section 6 of the LV Service Cable Jointing Manual

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ST: CAØU/2 July 2014

### **MATERIALS LIST**

### CABLE SIZES - 25mm<sup>2</sup> Cu Plain Conc

Quantity
1
2
1

### ADDITIONAL ITEMS FOR EACH TERMINATION

Materials for crutch seal where required Seals Sealing wire

Note: - Individual material item numbers (SHOPS) are to be found in Section 4 of the LV Service Cable Jointing Manual.

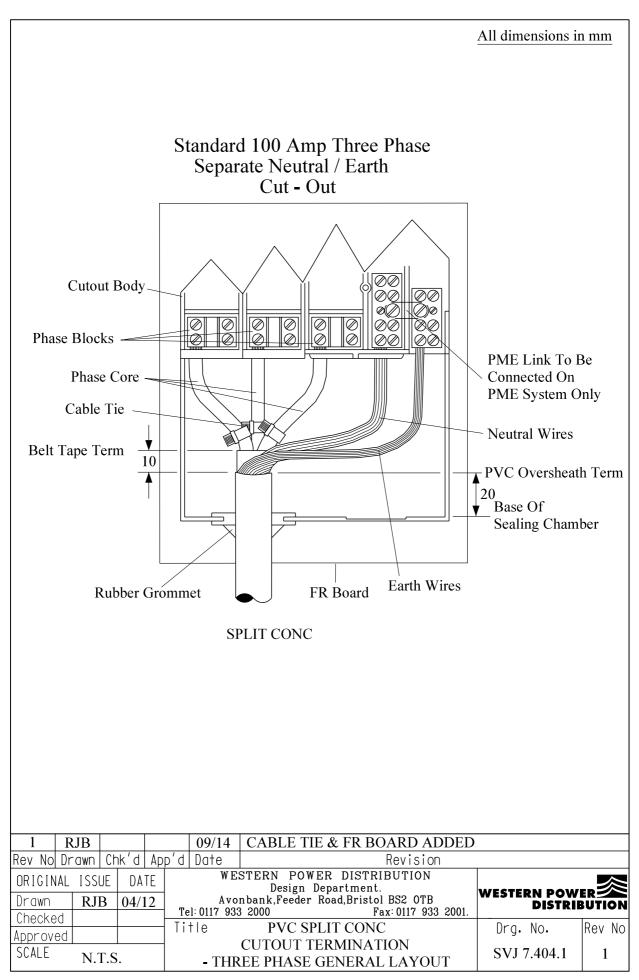
# Actions General Requirements (ST: CAØC)

Refer to Drawing <b>SVJ 7.404.1</b>	l whilst undertaking this
Jointing Procedure	

1.	Open and cut cable in accordance with General Requirement	13
2.	Prepare cut-out and fix to fire retardant board (fit PME link if appropriate)	
3.	Cut cable to length (100mm above top of cut-out)	
4.	Fit grommet to cable	
5.	Mark position of oversheath termination and remove	5
6.	Where the cut-out position is lower than the service cable route, a crutch seal may be applied if specified by the Supervisor	32
7.	Form neutral wires into a conductor	7
8.	Form earth wires into a conductor	7
9.	Set phase, neutral and earth conductors into position	
10.	Make neutral and earth connections	
11.	Apply temporary shrouding to neutral, earth conductors and terminal blocks	17
12.	Cut L3 phase conductor to length and remove insulation, depth of barrel plus 5mm	
13.	Make L3 phase connection and apply terminal block cover	
14.	Repeat action 11 & 12 for L2 and L1 in turn	
15.	Remove temporary shrouding applied in 11	
16.	Fit cable tie around phase insulation in the cable crutch	
17.	Fit cable cover and remaining cut-out covers	

## **JOINTING PROCEDURE 7.404 - Continued**

18.	Apply phase identification, earthing and security labels	
19.	Check volts, polarity, phase rotation and earth loop impedance	
20.	Fit fuse carriers and seal	



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## ST: CAØU/2 PROCEDURES FOR MAKING SERVICE CABLE TERMINATIONS

## **JOINTING PROCEDURE 7.405**

# PVC PLAIN CONCENTRIC SERVICE CABLE 25A CUT-OUT TERMINATION - SINGLE PHASE

This procedure is to be read in conjunction with the appropriate General Requirements ST: CAØC Section 6 of the LV Service Cable Jointing Manual

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#### **MATERIALS LIST**

CABLE SIZES - 25mm<sup>2</sup> Hybrid or 4/16mm<sup>2</sup> Cu Plain Conc

**Item Quantity** 

25A CNE PL cut-out

### ADDITIONAL ITEMS FOR EACH TERMINATION

Seals Sealing wire

Note: - Individual material item numbers (SHOPS) are to be found in Section 4 of the LV Service Cable Jointing Manual.

1

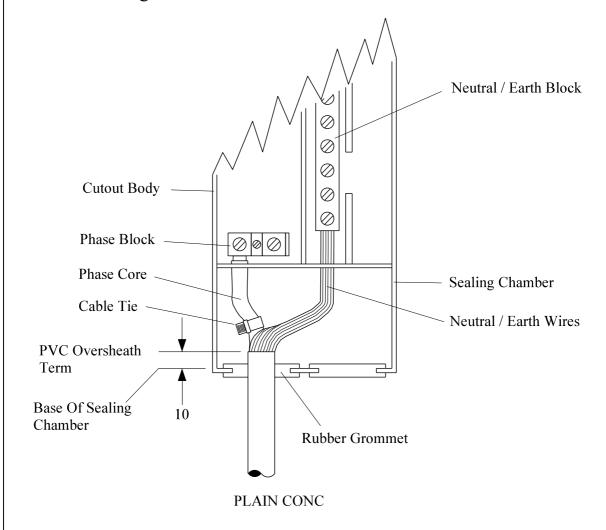
**Actions General Requirements** (ST: CAØC) Refer to Drawing SVJ 7.405.1 whilst undertaking this Jointing Procedure Apply shrouding around the column from ground level to 1. 300mm minimum beyond top of entry hole 2. Open and cut cable in accordance with General Requirement 13 3. Prepare cut-out (fit PME link if appropriate) 4. Cut cable to length (100mm above top of cut-out) 5. Fit grommet to cable 6. Mark position of oversheath termination and remove 5 Note: - A minimum distance of 150mm cable length must be available from the column entrance to the cut-out base 7. 7 Form neutral/earth wires into conductor 8. Set phase and neutral/earth conductors into position 9. Make neutral/earth connection 10. Apply temporary shrouding to neutral/earth conductor and terminal block 17 11. Cut phase conductor to length and remove insulation, depth of terminal barrel plus 5mm 12. Make phase connection and apply terminal block cover 13. Remove temporary shrouding applied in 10 14. Fit cable tie around phase insulation in the cable crutch 15. Fix cut-out to backboard, fit cable cover and remaining cut-out covers 16. Apply phase identification, earthing and security labels 17. Check volts, polarity and earth loop impedance

Fit fuse carrier and seal

18.

#### All dimensions in mm

## Standard 25 Amp Public Lighting Single Phase Combined Neutral / Earth Cut - Out



1	RJB			09/14	CABLE TIE ADDED		
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## ST: CAØU/2 PROCEDURES FOR MAKING SERVICE CABLE TERMINATIONS

## **JOINTING PROCEDURE 7.406**

# PVC SPLIT CONCENTRIC SERVICE CABLE 25A CUT-OUT TERMINATION - SINGLE PHASE

This procedure is to be read in conjunction with the appropriate General Requirements ST: CAØC Section 6 of the LV Service Cable Jointing Manual

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ST: CAØU/2 July 2014

#### **MATERIALS LIST**

CABLE SIZES - 4/16mm2 Cu Split Conc

**Item Quantity** 

25A SNE PL cut-out

### ADDITIONAL ITEMS FOR EACH TERMINATION

Seal

Sealing wire

Note: - Individual material item numbers (SHOPS) are to be found in Section 4 of the LV Service Cable Jointing Manual.

1

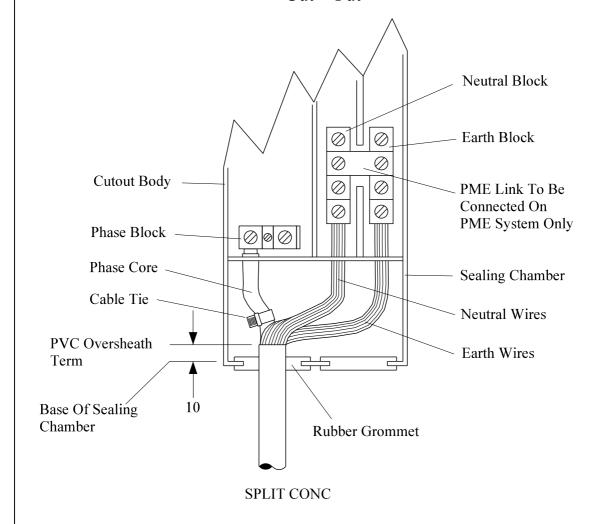
Actio	ons	General Requirements (ST: CAØC)
	Refer to Drawing <b>SVJ 7.406.1</b> whilst undertaking this Jointing Procedure	
1.	Apply shrouding around the column from ground level to 300mm minimum beyond top of entry hole	
2.	Open and cut cable in accordance with General Requirement	nt 13
3.	Prepare cut-out (fit PME link if appropriate)	
4.	Cut cable to length (100mm above top of cut-out)	
5.	Fit grommet to cable	
6.	Mark position of oversheath termination and remove	5
	<b>Note:</b> - A minimum distance of 150mm cable length must lavailable from the column entrance to the cut-out base seal chamber	
7.	Form neutral wires into a conductor	7
8.	Form earth wires into a conductor	7
9.	Set phase, neutral and earth conductors into position	
10.	Make neutral and earth connections	
11.	Apply temporary shrouding to neutral, earth conductors and terminal block	d 17
12.	Cut phase conductor to length and remove insulation depth terminal barrel plus 5mm	of
13.	Make phase connection and apply terminal block cover	
14.	Remove temporary shrouding applied in 11	
15.	Fit cable tie around phase insulation in the cable crutch	
16.	Fit cut-out to backboard, fit cable cover and remaining cut-out covers	

## **JOINTING PROCEDURE 7.406 - Continued**

17.	Apply phase identification, earthing and security labels	
18.	Check volts, polarity and earth loop impedance	
19.	Fit fuse carrier and seal	



### Standard 25 Amp Public Lighting Single Phase Separate Neutral / Earth Cut - Out



1	RJB			09/14	CABLE TIE ADDED		
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## ST: CAØU/2 PROCEDURES FOR MAKING SERVICE CABLE TERMINATIONS

### **JOINTING PROCEDURE 7.407**

### 35mm<sup>2</sup> WAVECON SERVICE CABLE 100A CUT-OUT TERMINATION - THREE PHASE

This procedure is to be read in conjunction with the appropriate General Requirements ST: CAØC Section 6 of the LV Service Cable Jointing Manual

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ST: CAØU/2 July 2014

#### **MATERIALS LIST**

### **CABLE SIZES - 35mm<sup>2</sup> Wavecon**

Item Quantity

100A CNE 1ph cut-out 1
100A single pole cut-out 2
100A CNE 3ph cut-out cover 1

#### ADDITIONAL ITEMS FOR EACH TERMINATION

Materials for crutch seal where required. Seals Sealing wire

Note: - Individual material item numbers (SHOPS) are to be found in Section 4 of the LV Service Cable Jointing Manual.

### **Actions**

# General Requirements (ST: CAØC)

## Refer to Drawing SVJ 7.407.1 whilst undertaking this Jointing Procedure

1.	Open and cut cable in accordance with General Requirement 6.14	14
2.	Prepare cut-out and fix to fire retardant board (fit PME link if appropriate	e)
3.	Cut cable to length (100mm above top of cut-out)	
4.	Fit grommet to cable	
5.	Mark position of oversheath termination and remove	5
6.	Form neutral/earth wires into a conductor	7
7.	Remove rubber bedding	8
8.	Where the cut-out position is lower than the service cable route, a crutch seal may be applied if specified by the Supervisor	32
9.	Set phase and neutral/earth conductors into position	
10.	Make neutral/earth connection	
11.	Apply temporary shrouding to neutral/earth conductor and terminal block	17
12.	Cut L3 phase conductor to length and remove insulation, depth of barrel plus 5mm	
13.	Make L3 phase connection and apply terminal block covers	
14.	Repeat actions 11 & 12 for L2 & L1 in turn	
15.	Remove temporary shrouding applied in 10	
16.	Fit cable tie around phase insulation in the cable crutch	
17.	Fit cable cover and remaining cut-out covers	
18.	Apply phase identification, earthing and security labels	

### **JOINTING PROCEDURE 7.407 - Continued**

Actions Ger		General Requirements (ST: CAØC)
19.	Check volts, polarity, phase rotation and earth loop impedance	ce
20.	Fit fuse carriers and seal	

## All dimensions in mm Standard 100 Amp Three Phase Combined Neutral / Earth Cut - Out Cutout Body 00 Phase Blocks Neutral / Earth Block Phase Core Cable Tie Rubber Bedding 10 Term **PVC** Oversheath Term 20 Base Of Sealing Chamber Rubber Grómmet FR Board PLAIN CONC RJB 09/14 CABLE TIE & FR BOARD ADDED Rev No Drawn Chk'd App'd Date Revision WESTERN POWER DISTRIBUTION ORIGINAL ISSUE DATE Design Department. Avonbank, Feeder Road, Bristol BS2 OTB Drawn RJB 04/12 Fax: 0117 933 2001 Tel: 0117 933 2000 Checked Title 35mm<sup>2</sup> CNE WAVECON Drg. No. Rev No Approved

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SVJ 7.407.1

**CUTOUT TERMINATION** 

- THREE PHASE GENERAL LAYOUT

SCALE

N.T.S.

#### APPENDIX A

#### SUPERSEDED DOCUMENTATION

This Standard Technique supersedes ST:CAØU/1 dated May 2012 which should now be withdrawn.

APPENDIX B

#### ASSOCIATED DOCUMENTATION

ST:CAØA, ST:CAØB, ST:CAØC, ST:CAØM, ST:CAØN, ST:CAØS, ST:CAØT, ST:CAØV, ST:CAØV, ST:CAØZ.

APPENDIX C

#### IMPACT ON COMPANY POLICY

None, as this document has just been updated to incorporate all the latest SHOPS numbers and other subtle minor changes.

APPENDIX D

#### **IMPLEMENTATION OF POLICY**

This Standard Technique shall be communicated to all relevant WPD engineers and site staff at the next Team Briefing by the Team Manager.

APPENDIX E

#### **KEY WORDS**

Service Termination, Cutout, House Service Cutout, Public Lighting Cutout.