<table>
<thead>
<tr>
<th>CONSTRUCTION</th>
<th>DESCRIPTION</th>
<th>DWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction code guide - 11kV cable</td>
<td>Pole termination 35mm²/185mm²/400mm² Al. and 400mm² Cu XLPE cable</td>
<td>5101/1</td>
</tr>
<tr>
<td>Construction code guide - 11kV cable termination &amp; connection ABB</td>
<td>11CTP Pole termination 35mm²/185mm²/400mm² Al. and 400mm² Cu XLPE cable</td>
<td>5101/2</td>
</tr>
<tr>
<td>Construction code guide - 11kV cable termination &amp; connection Magnefix &amp; transformer</td>
<td>11CTP Pole termination cable guard to pole</td>
<td>5101/3</td>
</tr>
<tr>
<td>Construction code guide - 11kV Pole termination</td>
<td>Pole termination with links</td>
<td>5101/4</td>
</tr>
<tr>
<td>Construction code guide - 22kV cable</td>
<td>35mm²/185mm²/400mm² Al. XLPE</td>
<td>5101/5</td>
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<tr>
<td>Construction code guide - 22kV Pole termination</td>
<td>Pole termination with ABS &amp; EDO's</td>
<td>5101/6</td>
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<tr>
<td>Construction code guide - 33kV Pole termination</td>
<td>35mm²/185mm²/400mm² Al. XLPE</td>
<td>5101/7</td>
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<tr>
<td>11kV RMU AND TRANSFORMER CONSTRUCTION</td>
<td>Pole termination direct to mains</td>
<td>5101/8</td>
</tr>
<tr>
<td>11PMCTC/ASL</td>
<td>RMU - ABB SafeLink in padmounted</td>
<td>5206</td>
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<tr>
<td>11PMCTC/ASL</td>
<td>Substation triplex XLPE cable termination &amp; connection</td>
<td>5207</td>
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<tr>
<td>11CTC/ASD</td>
<td>RMU - ABB SD series Triplex XLPE cable termination &amp; connection</td>
<td>5051</td>
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<tr>
<td>11CTC/MMD</td>
<td>RMU &amp; SFU Magnefix MD &amp; Transformer</td>
<td>5054</td>
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<tr>
<td>11CTC/TX</td>
<td>Triplex XLPE cable termination &amp; connection</td>
<td>5244</td>
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<tr>
<td>11CTC/ASL</td>
<td>RMU - ABB Safelink2 freestanding triplex XLPE cable termination &amp; connection</td>
<td>5245</td>
</tr>
<tr>
<td>11PMCTC/FBX</td>
<td>FBX RMU - Triplex XLPE cable term. &amp; conn. - material</td>
<td>5270/1</td>
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<tr>
<td>11PMCTC/8DJH</td>
<td>8DJH RMU - Triplex XLPE cable term. &amp; conn. - material</td>
<td>5373/1</td>
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<td>8DJH RMU - Triplex XLPE cable term. &amp; conn. - material</td>
<td>5373/2</td>
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**22kV RMU CONSTRUCTION**

<table>
<thead>
<tr>
<th>CONSTRUCTION</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>RMU - F&amp;G GA..C Triplex XLPE cable</td>
<td>RMU - F&amp;G GA..C triplex XLPE cable termination and connection</td>
<td>5044/1</td>
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<tr>
<td>RMU - SFU Magnefix MD &amp; Transformer</td>
<td>RMU - Schneider Electric RM6 Triplex XLPE cable termination and connection</td>
<td>5279/1</td>
</tr>
<tr>
<td>Triplex XLPE cable termination &amp; connection</td>
<td>RMU - Schneider Electric RM6 Triplex XLPE cable termination and connection</td>
<td>5279/2</td>
</tr>
<tr>
<td>RMU - ABB Safelink2 freestanding 400mm² 1C Cu. cable termination &amp; connection</td>
<td>Transformer Triplex XLPE cable termination and connection</td>
<td>5120/1</td>
</tr>
<tr>
<td>FBX RMU - Triplex XLPE cable term. &amp; conn. - material</td>
<td>22CTC/TX Transformer Triplex XLPE cable termination and connection</td>
<td>5120/2</td>
</tr>
<tr>
<td>FBX RMU - Triplex XLPE cable term. &amp; conn. - construction</td>
<td>22CTC/TX Transformer Triplex XLPE cable termination and connection</td>
<td>5120/2</td>
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**22 kV TRANSFORMER CONSTRUCTION**

<table>
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<tr>
<th>CONSTRUCTION</th>
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<tr>
<td>RMU - Schneider Electric RM6 Triplex XLPE cable</td>
<td>Transformer Triplex XLPE cable termination and connection</td>
<td>5120/1</td>
</tr>
<tr>
<td>RMU - Schneider Electric RM6 Triplex XLPE cable</td>
<td>22CTC/TX Transformer Triplex XLPE cable termination and connection</td>
<td>5120/2</td>
</tr>
<tr>
<td>CONSTRUCTION DESCRIPTION</td>
<td>DWG</td>
<td></td>
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<tr>
<td>--------------------------</td>
<td>-----</td>
<td></td>
</tr>
<tr>
<td>22kV POLE TERMINATION CONSTRUCTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pole termination 35mm²/185mm² Al. Triplex and 630mm² Al. 1 core XLPE cable</td>
<td>5076/1</td>
<td></td>
</tr>
<tr>
<td>22CTP Pole termination 35mm²/185mm² Al. Triplex and 630mm² Al. 1 core XLPE cable</td>
<td>5076/2</td>
<td></td>
</tr>
<tr>
<td>22CTP Pole termination cable guard to pole Pole termination with links Pole termination with links (trident) Pole termination with ABS &amp; EDO's Pole termination with ABS &amp; EDO's Pole termination direct to mains 630mm² Al. 1 core XLPE cable</td>
<td>5076/3 5076/4 5076/5 5076/6 5076/7 5076/8</td>
<td></td>
</tr>
<tr>
<td>22/11kV PADMOUNTED AUTO TRANSFORMER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22/11kV Padmounted Auto Transformer Triplex XLPE cable termination &amp; connection. 22/11kV Padmounted Auto Transformer Triplex XLPE cable termination &amp; connection.</td>
<td>5354/1 5354/2</td>
<td></td>
</tr>
<tr>
<td>33kV POLE TERMINATION CONSTRUCTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pole termination 50mm²/300mm² Al core XLPE cable - Material Pole termination 50mm²/300mm² Al core XLPE cable</td>
<td>5248/1 5248/2</td>
<td></td>
</tr>
<tr>
<td>33CTP Pole termination cable guard to pole Pole termination with links 50mm²/300mm² Al 1 core Pole termination with ABS and EDO's 50mm²/300mm² Al 1 core</td>
<td>5248/3 5248/4 5248/5</td>
<td></td>
</tr>
</tbody>
</table>
11kV PADMOUNTED SUBSTATION CABLE TERMINATION & CONNECTION RMU CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

11 PM/CTC/ASL/35T

VOLTAGE
11 = 11kV

CONSTRUCTIONS
CTC = Cable Termination & Connection

HV SWITCHGEAR
ASL = ABB SafeLink
FBX = Schneider Electric

CABLE SIZE
35T = 35mm² Al Triplex
185T = 185mm² Al Triplex
35TI = 35mm² Al Triplex insect protected
185TI = 185mm² Al Triplex insect protected

EXAMPLE:- 11PM/CTC/ASL/35T = 11kV, Padmounted Substation, Cable termination and connection, ABB SafeLink RMU, 35mm² Al Triplex cable

11kV CABLE TERMINATION & CONNECTION CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

11 CTC/ASD/35T

VOLTAGE
11 = 11kV

CONSTRUCTIONS
CTC = Cable Termination & Connection

HV SWITCHGEAR
ASD = ABB SD series
ASL = ABB SafeLink
ASP = ABB SafePlus
ASR = ABB SafeRing

CABLE SIZE
35T = 35mm² Al Triplex
185T = 185mm² Al Triplex
35TI = 35mm² Al Triplex insect protected
185TI = 185mm² Al Triplex insect protected
400CUI = 400mm² Cu 1 Core insect protected
400T = 400mm² Al Triplex
400TI = 400mm² Al Triplex insect protected

EXAMPLE:- 11CTC/ASD/35T = 11kV, Cable termination and connection, ABB SD series RMU, 35mm² Al Triplex cable

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
CONSTRUCTION CODE GUIDE
CABLE TERMINATION AND CONNECTION

FILE: 5 58 5134 1  Dwg 5134 Sh 1  Ergon Energy Corporation Ltd  ABN 50 087 646 062

A  ORIGINAL ISSUE  7.10.05
B  HARD COPY  4/2/03
C  UNCONTROLLED  A. Bletchly
D  Ergon Energy Corporation Ltd  ABN 50 087 646 062
E  04.05.17  C. Lindsay
11kV CABLE TERMINATION & CONNECTION TRANSFORMER CONSTRUCTION CODE

**Code shown within dashed box appears on relevant construction detail drawings in this manual.**

**11 CTC/TX/35TI**

**VOLTAGE**
- 11 = 11kV

**CONSTRUCTIONS**
- CTC = Cable Termination & Connection

**TRANSFORMER**
- TX = Transformer
- ATX = Auto Transformer

**CABLE SIZE**
- 35T = 35mm² Al Triplex
- 185T = 185mm² Al Triplex
- 35TI = 35mm² Al Triplex insect protected
- 185TI = 185mm² Al Triplex insect protected
- 400TI = 400mm² Al Triplex
- 400TI = 400mm² Al Triplex insect protected
- 400CUI = 400mm² Cu 1 core insect protected

**EXAMPLE:** 11CTC/TX/35TI = 11kV, Cable termination and connection, Transformer, 35mm² Triplex insect protected cable

---

11kV CABLE TERMINATION & CONNECTION MAGNEFIX MD SERIES CONSTRUCTION CODE

**Code shown within dashed box appears on relevant construction detail drawings in this manual.**

**11 CTC/MMD/185T**

**VOLTAGE**
- 11 = 11kV

**CONSTRUCTIONS**
- CTC = Cable Termination & Connection

**HV SWITCHGEAR**
- MMD = Magnefix MD series

**CABLE SIZE**
- 35T = 35mm² Al Triplex
- 185T = 185mm² Al Triplex
- 35TI = 35mm² Al Triplex insect protected
- 185TI = 185mm² Al Triplex insect protected

**EXAMPLE:** 11CTC/MMD/185T = 11kV, Cable termination and connection, Magnefix MD series RMU, 185mm² Triplex cable

---

**EXAMPLE:**
- 11CTC/TX/35TI = 11kV, Cable termination and connection, Transformer, 35mm² Triplex insect protected cable
- 11CTC/MMD/185T = 11kV, Cable termination and connection, Magnefix MD series RMU, 185mm² Triplex cable

---

**UNDERGROUND DISTRIBUTION**

11kV CONSTRUCTION
CONSTRUCTION CODE GUIDE
CABLE TERM. & CONN. MAGNEFIX & TRANSFORMER

**FILE:** 5 585134.2  Dwg 5134 Sh 2

**Ergon Energy Corporation Ltd**
ABN 50 087 646 062

**ORIGINAL ISSUE**

**DRAWN**
T. Borg

**APPROVED**
C. Noel

**DATE**
4/2/03

**PASSED**
A. Bletchly

**DRAWN**
T. Borg

**Dwg**
5134 Sh 2

**FILE:** 5 585134.2

---

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11kV POLE TERMINATION CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

11 CT P/35T/M

VOLTAGE CONSTRUCTIONS POLE CABLE SIZE CABLE GUARD
11 = 11kV CT = Cable termination P = Pole

35T = 35mm² Al Triplex
185T = 185mm² Al Triplex
35TI = 35mm² Al Triplex insect protected
185TI = 185mm² Al Triplex insect protected
400CUI = 400mm² Cu 1 core insect protected
400TI = 400mm² Al Triplex insect protected

M = Metal
P = Polymeric

EXAMPLE:- 11CTP/35T/M = 11kV, Cable termination, Pole, 35mm² Triplex cable, Metal cable guard
22kV CABLE TERMINATION & CONNECTION HV SWITCHGEAR CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

\[22 \text{ CTC/FGA/185T}\]

**VOLTAGE**
- 22 = 22kV

**CONSTRUCTIONS**
- CTC = Cable Termination & Connection

**HV SWITCHGEAR**
- FGA = F & G GA...- C Series
- RM6 = Schneider Electric RM6

**CABLE SIZE**
- 35TI = 35mm² Al Triplex insect protected
- 185T = 185mm² Al Triplex
- 630 = 630mm² Al 1C

**EXAMPLE:**
- 22CTC/FGA/185T = 22kV, Cable termination and connection, F & G GA...-C series RMU, 185mm² Triplex cable

22kV CABLE TERMINATION & CONNECTION TRANSFORMER CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

\[22 \text{ CTC/TX/35TI}\]

**VOLTAGE**
- 22 = 22kV

**CONSTRUCTIONS**
- CTC = Cable Termination & Connection

**TRANSFORMER**
- TX = Transformer
- ATX = Auto Transformer

**CABLE SIZE**
- 35TI = 35mm² Al Triplex insect protected
- 185T = 185mm² Al Triplex
- 630 = 630mm² Al 1 core

**EXAMPLE:**
- 22CTC/TX/35TI = 22kV, Cable termination and connection, Transformer, 35mm² Triplex insect protected cable
22kV POLE TERMINATION CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

22 CT P/185T/P

VOLTAGE    CONSTRUCTIONS    POLE    CABLE SIZE    CABLE GUARD
22 = 22kV    CT = Cable termination    P = Pole

35TI = 35mm² Al Triplex Inaect protected
185T = 185mm² Al Triplex
630 = 630mm² Al 1 Core

P = Polymeric (Not available for 630mm² cable)
M = Metal

EXAMPLE: 22CTP/185T/P = 22kV, Cable termination, Pole, 185mm² Triplex cable, Polymeric cable guard.
33kV POLE TERMINATION CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

33 CT P/300/P

VOLTAGE CONSTRUCTIONS POLE CABLE SIZE CABLE GUARD
33 = 33kV CT = Cable termination P = Pole 50 = 50mm² Al 1 Core P = Polymeric
50 = 50mm² Al 1 Core
300 = 300mm² Al 1 Core M = Metal

EXAMPLE:- 33CTP/300/P = 33kV, Cable termination, Pole, 300mm² Al 1 Core cable, Polymeric cable guard.

33kV CONSTRUCTION CODE GUIDE
POLE TERMINATION

UNDERGROUND DISTRIBUTION
33kV CONSTRUCTION
CONSTRUCTION CODE GUIDE
POLE TERMINATION

FILE: 5 585247 1 Dwg 5247 Sh 1
### Notes:

1. Insulate screen wires with PVC tape.

### WARNING:

- Use only cold applied bushing boots.
- Heat must NOT be applied near RMU bushings.

### Assy Selection

- Assy Selection 571-1 to 9
- Assy Selection 573-2, 4 or 9
- Assy Selection 571-2, 4 or 9

### Description

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>571-1</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 35mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>571-2</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>571-3</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 35mm² cable insect prot.</td>
<td>1</td>
</tr>
<tr>
<td>571-4</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 185mm² cable insect prot.</td>
<td>1</td>
</tr>
<tr>
<td>571-5</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 400mm² Al cable</td>
<td>1</td>
</tr>
<tr>
<td>571-6</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 400mm² Al cable insect prot.</td>
<td>1</td>
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<td>573-2</td>
<td>Clamp to channel suit 11kV 35mm² Al cable</td>
<td>3</td>
</tr>
<tr>
<td>573-3</td>
<td>Clamp to channel suit 11kV 185mm² Al cable</td>
<td>3</td>
</tr>
<tr>
<td>573-4</td>
<td>Clamp to channel suit 11kV 35mm² Al cable insect protected</td>
<td>3</td>
</tr>
<tr>
<td>573-5</td>
<td>Clamp to channel suit 11kV 185mm² Al cable insect protected</td>
<td>3</td>
</tr>
<tr>
<td>573-6</td>
<td>Clamp to channel suit 11kV 400mm² Al cable</td>
<td>3</td>
</tr>
<tr>
<td>573-7</td>
<td>Clamp to channel suit 11kV 400mm² Al cable insect protected</td>
<td>3</td>
</tr>
</tbody>
</table>

**Termination and connection kit, and bushing boots to be installed in accordance with Manufacturers installation instructions.**

**Unistrut set in concrete plinth.**

**Assy Selection**

- 573-2, 4 or 9
- 571-2, 4 or 9

**Station Earth**

**Construction Type**

- 11PMCTC/ASL

**Bushings Boots supplied with HV switchgear.**
<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>570-1</td>
<td>Termination &amp; connection (ABB SafeLink) 11kV 400mm² Cu cable insect protected</td>
<td>1</td>
</tr>
<tr>
<td>573-6</td>
<td>Clamp to channel suit 11kV 400mm² Cu cable insect protected</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTES:**

1. Connect cable screens and earth straps (braid) to separate holes on station earth.

**Termination and connection kit, and bushing boots to be installed in accordance with Manufacturers installation instructions**

**400mm² 1 core cable with semi-conductive outer sheath**

**WARNING:**
Use only cold applied bushing boots. Heat must NOT be applied near RMU bushings.

**SIDE VIEW**

- Assay 570-1
- Assy 573-6
- 400mm² 1 core cable with semi-conductive outer sheath
- Do not over tighten clamp on cable.
- Screen earth (Refer Note 1)
- Braid earth (Refer Note 1)
- Station Earth
- Unistrut set in concrete plinth
- Construction Type 11PMCTC/ASL

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## Notes:

1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT the unistrut bar or any earth point before reaching the station earth bar.
2. Locate cable lug and bolt head to rear of bushing.

### Table: Material - ASD

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>514-1</td>
<td>Term. &amp; conn. (ABB SD) 11kV 35mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>514-2</td>
<td>Term. &amp; conn. (ABB SD) 11kV 185mm² cable</td>
<td></td>
</tr>
<tr>
<td>514-3</td>
<td>Term. &amp; conn. (ABB SD) 11kV 35mm² cable Insect prot.</td>
<td>1</td>
</tr>
<tr>
<td>514-4</td>
<td>Term. &amp; conn. (ABB SD) 11kV 185mm² cable Insect prot.</td>
<td>1</td>
</tr>
<tr>
<td>541-4</td>
<td>Cable trifoil to channel suit 11kV 35mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>541-7</td>
<td>Cable trifoil to channel suit 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>557-21</td>
<td>Spring nut suit P3300 channel</td>
<td>1</td>
</tr>
</tbody>
</table>

### Diagram

- **Maximum lug width is 35mm.** Machine/file both sides of palm as necessary and radius edges.
- **Station Earth**
- **Assay Selection 514-1 to 4**
- **Assay Selection 541-4 or 7**
- **Assay 557-21**
- **Construction Type**
- **11CTC/ASD**

### Underwater Distribution

- **11kV Construction**
- **RMU - ABB SD Series**
- **Triplex XLPE Cable Termination & Connection**

---

**Ergon Energy Corporation Ltd**
ABN 50 087 646 062

**Drawn by:** T. Borg
**Approved by:** C. Noel
**Date:** 30/1/03

**FILE:** 5 58 5061 1  **Dwg:** 5051  **Sh:**
1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT the unistrut bar or any earth point before reaching the station earth bar.

**MATERIAL - MMD**

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
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<tbody>
<tr>
<td>516-1</td>
<td>Term. &amp; conn. (Magnefix MD &amp; Transf.) 11kV 35mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>516-2</td>
<td>Term. &amp; conn. (Magnefix MD &amp; Transf.) 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>516-3</td>
<td>Term. &amp; conn. (Magnefix MD &amp; Transf.) 11kV 35mm² cable insect prot.</td>
<td>1</td>
</tr>
<tr>
<td>516-4</td>
<td>Term. &amp; conn. (Magnefix MD &amp; Transf.) 11kV 185mm² cable insect prot.</td>
<td>1</td>
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</tbody>
</table>

**MATERIAL - TRANSF.**

<table>
<thead>
<tr>
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<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>516-1</td>
<td>Term. &amp; conn. (Magnefix MD &amp; Transf.) 11kV 35mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>516-2</td>
<td>Term. &amp; conn. (Magnefix MD &amp; Transf.) 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>516-3</td>
<td>Term. &amp; conn. (Magnefix MD &amp; Transf.) 11kV 35mm² cable insect prot.</td>
<td>1</td>
</tr>
<tr>
<td>516-4</td>
<td>Term. &amp; conn. (Magnefix MD &amp; Transf.) 11kV 185mm² cable insect prot.</td>
<td>1</td>
</tr>
<tr>
<td>541-4</td>
<td>Clamp trefoil to channel suit 11kV 35mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>541-7</td>
<td>Clamp trefoil to channel suit 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>557-20</td>
<td>Spring nut suit P1000 channel</td>
<td>1</td>
</tr>
</tbody>
</table>

**NOTES:**

1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT the unistrut bar or any earth point before reaching the station earth bar.
# Undergraduate Distribution

## 11kV Construction

### Assy 571-1
**Description:** Term. & conn. (ABB SafeLink) 11kV 35mm² cable

**QTY:** 1

### Assy 571-2
**Description:** Term. & conn. (ABB SafeLink) 11kV 185mm² cable

**QTY:** 1

### Assy 571-3
**Description:** Term. & conn. (ABB SafeLink) 11kV 35mm² cable insect prot.

### Assy 571-4
**Description:** Term. & conn. (ABB SafeLink) 11kV 185mm² cable insect prot.

### Assy 577-1
**Description:** ABB bushing boots

**QTY:** 1

### Assy 600-1
**Description:** Glands to suit 185mm² cable (note 2)

**QTY:** AR

---

**WARNING:**

Use only cold applied bushing boots. Heat must NOT be applied near RMU bushings.

---

**NOTES:**

1. Insulate screen wires with PVC tape.
2. Sufficient for 1 switch or fuse.
**Termination and connection kit, and bushing boots to be installed in accordance with Manufacturers installation instructions**

**WARNING:**

Use only cold applied bushing boots. Heat must NOT be applied near RMU bushings.

**NOTES:**

1. Sufficient for 1 switch or fuse.

---

**ASSY** | **DESCRIPTION** | **QTY**
--- | --- | ---
570-1 | Termination & connection (ABB SafeLink) 11kV 400mm² Cu cable insect protected | 1
571-8 | Term. & conn. (ABB SafeLink) 11kV 400mm² Al cable | 1
571-9 | Term. & conn. (ABB SafeLink) 11kV 400mm² Al cable - insect prot. | 1
577-5 | Raychem bushing boots | 1
600-2 | Glands to suit 400mm² Al cable (note 1) | AR
600-3 | Glands to suit 400mm² Cu & Al insect protected cable (note 1) | AR

---

**CONSTRUCTION TYPE**

- **Station Earth**
- **Braid earth**
- **Screen earth**

**SIDE VIEW**

- **Assy Selection 570-1 or 571-8 or 9**

**UNDERGROUND DISTRIBUTION**

11kV CONSTRUCTION

RMU - ABB SAFELINK2 FREESTANDING

400mm² 1C Cu. CABLE TERMINATION & CONNECTION

---

**Ergon Energy Corporation Ltd**

ABN 50 087 646 062

---

**DATE** 17/3/11

**APPROVED** C. Noel

**PASSED** A. Bletchly

**DRAWN** L. Burton

**Dwg** 5245

**Sh** 5
# Material - Including Cable Screen Earth Connection

<table>
<thead>
<tr>
<th>ASSY</th>
<th>Description</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>588-1</td>
<td>Cable termination and connection to RMU 11kV 35mm²</td>
<td>1</td>
</tr>
<tr>
<td>588-4</td>
<td>Cable termination and connection to RMU 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>588-7</td>
<td>Cable termination and connection to RMU 11kV 400mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>510-6</td>
<td>Earth extension elbow connector to station earth</td>
<td>1</td>
</tr>
</tbody>
</table>

## Notes:
1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT any metal before reaching the station earth bar.
Areva FBX RMU

Assy Selection
588-1
or
588-4
or
588-7

Screen earth

Assy 510-6

To Station Earth

Construction Type
11PMCTC/FBX

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
FBX RMU
TRIPLEX XLPE CABLE TERMINATION & CONNECTION

Ergon Energy Corporation Ltd
ABN 50 087 646 062

FILE: 5 585270.2
Dwg 5270 Sh 2
## MATERIAL - INCLUDING CABLE SCREEN EARTH CONNECTION

<table>
<thead>
<tr>
<th>ASSY</th>
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<tr>
<td></td>
<td><strong>DESCRIPTION</strong></td>
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</tr>
<tr>
<td>588-1</td>
<td>Cable termination and connection to RMU 11kV 35mm²</td>
<td>1</td>
</tr>
<tr>
<td>588-4</td>
<td>Cable termination and connection to RMU 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>588-7</td>
<td>Cable termination and connection to RMU 11kV 400mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>510-6</td>
<td>Earth extension elbow connector to station earth</td>
<td>1</td>
</tr>
</tbody>
</table>

### NOTES:

1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT any metal before reaching the station earth bar.
Siemens 8DJH RMU

Assy Selection
588-1
or
588-4
or
588-7

Screen earth

Assy 510-6

To Station Earth

Construction Type
11PMCTC/8DJH

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
SIEMENS 8DJH RMU
TRIPLEX XLPE CABLE TERMINATION & CONNECTION
### MATERIAL - TERMINATION

<table>
<thead>
<tr>
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<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>511-1</td>
<td>Clamp trefoil to pole term. bracket suit 11kV 35mm² cable</td>
<td></td>
</tr>
<tr>
<td>511-3</td>
<td>Clamp trefoil to pole term. bracket suit 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>511-8</td>
<td>Clamp trefoil to pole term. bracket suit 11kV 400mm² Cu cable insect protected</td>
<td></td>
</tr>
<tr>
<td>511-10</td>
<td>Clamp trefoil to pole term. bracket suit 11kV 400mm² Al cable make Al cable insect protected</td>
<td></td>
</tr>
<tr>
<td>515-4</td>
<td>Clamp cable to wood pole</td>
<td>AR</td>
</tr>
<tr>
<td>557-8</td>
<td>Clamp trefoil to wood pole to suit 400mm² cable 11kV</td>
<td>1</td>
</tr>
<tr>
<td>539-1</td>
<td>Bracket termination (11kV, 22kV &amp; 33kV) mounting to wood pole</td>
<td>1</td>
</tr>
<tr>
<td>540-1</td>
<td>Arrester 11kV mounting to bracket (M12)</td>
<td></td>
</tr>
<tr>
<td>540-4</td>
<td>Arrester 11kV mounting to bracket (M16) - 400mm² cable</td>
<td>3</td>
</tr>
<tr>
<td>546-1</td>
<td>Termination outdoor 11kV 35mm² Al cable</td>
<td></td>
</tr>
<tr>
<td>546-2</td>
<td>Termination outdoor 11kV 185mm² Al cable</td>
<td></td>
</tr>
<tr>
<td>546-3</td>
<td>Termination outdoor 11kV 35mm² Al cable insect protected</td>
<td></td>
</tr>
<tr>
<td>546-4</td>
<td>Termination outdoor 11kV 185mm² Al cable insect protected</td>
<td></td>
</tr>
<tr>
<td>546-6</td>
<td>Termination outdoor 11kV 400mm² Al cable</td>
<td></td>
</tr>
<tr>
<td>546-7</td>
<td>Termination outdoor 11kV 400mm² Al cable insect protected</td>
<td></td>
</tr>
<tr>
<td>572-1</td>
<td>Termination outdoor 11kV 400mm² Cu cable insect protected</td>
<td></td>
</tr>
<tr>
<td>547-1</td>
<td>Guard wildlife to wood pole</td>
<td>1</td>
</tr>
</tbody>
</table>

### MATERIAL - CABLE GUARD

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>531-1</td>
<td>Guard polymeric to wood pole</td>
<td></td>
</tr>
<tr>
<td>531-6</td>
<td>Guard metal (100) to wood pole</td>
<td>1</td>
</tr>
<tr>
<td>531-7</td>
<td>Guard metal (130) to wood pole</td>
<td></td>
</tr>
</tbody>
</table>

### NOTES:

1. Locate cable on opposite side of pole to oncoming traffic where possible.
2. Do Not Obstruct climbing access.
3. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
4. Minimum dimension to ground from termination bracket king bolt allows sufficient ground clearance for an LV underground termination on pole.
5. Dimension from termination bracket king bolt to LV conductor below suits triplex and 1 core cable termination. 3 core cable termination requires greater dimension. Polymeric cable guard is not to be used in areas:
   - subject to grass fire
   - where metal bladed brush cutter may be used
   - where there is a high likelihood of impact.
7. Refer Earthing Section of the Overhead Construction Manual for minimum separation requirements between metal cable guard and communication assets.
8. Where wildlife is a problem an additional wildlife guard may be installed over the cable.

### UNDERGROUND DISTRIBUTION

11kV CONSTRUCTION
POLE TERMINATION
35/185/400mm² AL and 400mm² CU XLPE CABLE
HV Earth - Refer Overhead Construction Manual EARTHING HV Equipment Earth

Earth cable to pass underneath wildlife guard

Refer Sheet 1 Note 8

3500 above ground level

Assy Selection 540-1 or 4

Assy Selection 546-1 to 7 or 572-1

Assy Selection 511-1, 3, 8 or 10 and 580-1 (400mm²)

Assy Selection 515-4 or 557-8 at 1000 crs typical

Bracket King Bolt

Assy 539-1

Construction Type 11CTP
Metal cable guard shall be earthed. Refer Overhead Construction Manual EARTHING for pole and cable guard earthing details.

Construction Type

11CTP
REFER: Overhead Construction Manual CABLE TERM. POLES for pole top details.

TERMINATION

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
POLE TERMINATION WITH LINKS
35/185/400mm² AL XLPE

HARD COPY
UNCONTROLLED

FILE: 585101 4
Dwg 5101 Sh 4

C. Noel
C. Lindsay

Ergon Energy Corporation Ltd
ABN 50 087 646 062
REFER:- Overhead Construction Manual
CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

LV ABC 3900
LV OPEN WIRE

2100
8200
2650

1800

300
4200

300
4750
LV OPEN WIRE

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
POLE TERMINATION WITH LINKS (TRIDENT)
35/185/400mm² AL XLPE
REFER:- Overhead Construction Manual
CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND
IF LV CABLE TERM.
REQUIRED (TYPICAL)

TRIDENT TERMINATION/STRAIN

TRIDENT INTERMEDIATE

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
POLE TERMINATION WITH ABS AND EDO'S
35/185/400mm² AL XLPE

Ergon Energy Corporation Ltd
ABN 50 087 646 062

FILE: 5 5101 Sh 6
REFER:- Overhead Construction Manual
CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

FLAT INTERMEDIATE
TERMINATION/STRAIN

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
POLE TERMINATION WITH ABS AND EDO'S
35/185/400mm² AL XLPE

Ergon Energy Corporation Ltd
ABN 50 087 848 082

DRAWN C. Lindsay
APPROVED C. Noel
DATE 25/3/03
PASSED A. Bleischy

FILE: 5 585101 7
Dwg 5101 Sh 7
REFER: - Overhead Construction Manual CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

8200
3000
1800
LV ABC 4800
300 5100 LV OPEN WIRE

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

8200
3000
1800
LV ABC 4800
300 5100 LV OPEN WIRE

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
POLE TERMINATION DIRECT TO MAINS
400mm² Cu 1 CORE XLPE CABLE

ERGON ENERGY

5101 Sh 8
<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
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<tbody>
<tr>
<td>512-1</td>
<td>Cable termination and connection to RMU 22kV 35mm² cable insect protected</td>
<td>1</td>
</tr>
<tr>
<td>512-4</td>
<td>Cable termination and connection to RMU 22kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>512-7</td>
<td>Cable termination and connection to RMU 22kV 630mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>510-1</td>
<td>Earth extension elbow connector to station earth</td>
<td>1</td>
</tr>
<tr>
<td>510-6</td>
<td>Earth extension elbow connector to station earth</td>
<td>1</td>
</tr>
<tr>
<td>536-5</td>
<td>Clamp to suit 3 x 1 core 630mm² cable</td>
<td>3</td>
</tr>
<tr>
<td>553-1</td>
<td>35mm² insect protected cable bonding brass tape to cable screen</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTES:**

1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT any metal before reaching the station earth bar.
Screen earth

Assy Selection
512-1 and 553-1
or
512-4
or
512-7

Assy Selection
536-5

F & G RMU
Type GA...C (shown)

Assy 510-1 or 6

To Station Earth

Construction Type
22CTC/FGA

UNDERGROUND DISTRIBUTION
22kV CONSTRUCTION
RMU F&G GA...C
TRIPLEX XLPE CABLE TERMINATION & CONNECTION

date: 8/2/02

ERGON ENERGY CORPORATION LTD
ABN 50 087 646 062

FILE: 5 58 5044 2

Dwg 5044 Sh 2
<table>
<thead>
<tr>
<th>ASSY</th>
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<tbody>
<tr>
<td>512-1</td>
<td>Cable termination and connection to RMU 22kV 35mm² cable insect protected</td>
<td>1</td>
</tr>
<tr>
<td>512-4</td>
<td>Cable termination and connection to RMU 22kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>512-7</td>
<td>Cable termination and connection to RMU 22kV 630mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>591-1</td>
<td>Gland Plate Kit and Glands to suit 35mm² cable (107mm)</td>
<td>1</td>
</tr>
<tr>
<td>591-2</td>
<td>Gland Plate Kit and Glands - 35mm² cable (LHS of SSFS or FSFS = 145mm centres)</td>
<td>1</td>
</tr>
<tr>
<td>591-3</td>
<td>Gland Plate Kit and Glands to suit 630mm² cable (107mm)</td>
<td>1</td>
</tr>
<tr>
<td>591-4</td>
<td>Gland Plate Kit and Glands - 630mm² cable (LHS of SSFS or FSFS = 145mm centres)</td>
<td>1</td>
</tr>
<tr>
<td>591-5</td>
<td>Gland Kit with Glands to suit 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>510-1</td>
<td>Earth extension elbow connector to station earth</td>
<td>1</td>
</tr>
<tr>
<td>510-6</td>
<td>Earth extension elbow connector to station earth</td>
<td>1</td>
</tr>
</tbody>
</table>

**GLAND PLATES:**

For 35mm² and 630mm² cables, designer to nominate Gland Plate Kit to suit. See Assembly 591

**NOTES:**

1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT any metal before reaching the station earth bar.
Schneider Electric
RMU Type
RM6 (shown)

Assy Selection
512-1
or
512-4
or
512-7

Screen earth

Assy Selection
591-1 to 5
Refer Sh 1 - Gland Plate Note

Assy 510-6

To Station Earth

Construction Type
22CTC/RM6

UNDERGROUND DISTRIBUTION
22kV CONSTRUCTION
RMU - SCHNEIDER ELECTRIC RM6
TRIPLEX XLPE CABLE TERMINATION & CONNECTION

A ORIGINAL ISSUE
B 28.02.13

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UNCONTROLLED

Ergon Energy Corporation Ltd
ABN 50 087 646 062

APPROVED C.Noel
DATE 23.04.12
PASSED A.Bletcher
DRAWN T.Borg

FILE: 5 58 5279 2
Dwg 5279 Sh 2
<table>
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<tr>
<th>ASSY</th>
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<th>35mm²</th>
<th>185mm²</th>
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<tr>
<td>506-1</td>
<td>Term. &amp; conn. to transformer 22kV 35mm² cable Insect protection</td>
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<tr>
<td>508-4</td>
<td>Term. &amp; conn. to transformer 22kV 185mm² cable</td>
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<td></td>
<td></td>
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<tr>
<td>510-1</td>
<td>Earth connection elbow connector to station earth</td>
<td>1</td>
<td></td>
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<tr>
<td>541-5</td>
<td>Clamp trifoil to channel suit 22kV 35mm² cable Insect protected</td>
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<tr>
<td>541-9</td>
<td>Clamp trifoil to channel suit 22kV 185mm² cable</td>
<td>1</td>
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<tr>
<td>557-21</td>
<td>Spring nut suit P3300 channel</td>
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<tr>
<td>545-2</td>
<td>Connection 35mm² earth bridge</td>
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<tr>
<td>563-1</td>
<td>35mm² Insect protected cable bonding brass tape to cable screen</td>
<td>3</td>
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</tbody>
</table>

NOTES:

1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT any metal before reaching the station earth bar.
MATERIAL - TERMINATION

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
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<tr>
<td>511-2</td>
<td>Clamp trefoil to pole term. bracket suit 22kV 35mm² cable</td>
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<tr>
<td>511-6</td>
<td>Clamp trefoil to pole term. bracket suit 22kV 185mm² cable</td>
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</tr>
<tr>
<td>511-12</td>
<td>Clamp trefoil to pole term. bracket suit 22kV 630mm² cable</td>
<td></td>
</tr>
<tr>
<td>515-4</td>
<td>Clamp cable to wood pole</td>
<td>AR</td>
</tr>
<tr>
<td>557-12</td>
<td>Clamp trefoil to wood pole to suit 630mm² cable</td>
<td></td>
</tr>
<tr>
<td>539-1</td>
<td>Bracket termination (11kV, 22kV &amp; 33kV) mounting to wood pole</td>
<td>1</td>
</tr>
<tr>
<td>540-2</td>
<td>Arrester 22kV mounting to bracket (M12)</td>
<td>3</td>
</tr>
<tr>
<td>540-3</td>
<td>Arrester 22kV mounting to bracket (M16) - 630mm² cable only</td>
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</tr>
<tr>
<td>546-10</td>
<td>Termination outdoor 22kV 185mm² cable</td>
<td></td>
</tr>
<tr>
<td>546-11</td>
<td>Termination outdoor 22kV 630mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>546-12</td>
<td>Termination outdoor 22kV 35mm² cable insect protected</td>
<td></td>
</tr>
<tr>
<td>547-1</td>
<td>Guard wildlife to wood pole</td>
<td>1</td>
</tr>
</tbody>
</table>

NOTES:
1. Locate cable on opposite side of pole to oncoming traffic where possible.
2. Do Not Obstruct climbing access.
3. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
4. Minimum dimension to ground from termination bracket king bolt allows sufficient ground clearance for an LV underground termination on pole.
5. Dimension from termination bracket king bolt to LV conductor below suits triplex cable termination. 3C cable termination requires greater dimension.
6. Polymeric cable guard is not to be use in areas:
   - subject to grass fire
   - where metal bladed brush cutter may be used
   - where there is a high likelihood of impact.
7. Refer Earthing Section of the Overhead Construction Manual for minimum separation requirements between metal cable guard and communication assets.
8. Where wildlife is a problem an additional wildlife guard may be installed over the cable.

MATERIAL - CABLE GUARD

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>531-1</td>
<td>Guard polymeric to wood pole</td>
<td>1</td>
</tr>
<tr>
<td>531-6</td>
<td>Guard metal (100) to wood pole</td>
<td></td>
</tr>
<tr>
<td>531-7</td>
<td>Guard metal (130) to wood pole</td>
<td></td>
</tr>
<tr>
<td>531-8</td>
<td>Guard metal (180) to wood pole</td>
<td></td>
</tr>
</tbody>
</table>

MATERIAL - TERMINATION

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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</thead>
<tbody>
<tr>
<td>580-1</td>
<td>Cable separation mounting bracket for termination leads</td>
<td>1</td>
</tr>
</tbody>
</table>

35mm² 185mm² 630mm²
HV Earth - Refer
Overhead Construction
Manual EARTHING
HV Equipment Earth

Earth cable to pass underneath wildlife guard

Refer Sheet 1
Note 8

3500 above ground level

Bracket King Bolt

Assy Selection
540-2 or 3

Assy 539-1

Assy Selection
546-10 to 12

Assy Selection
511-2, 6 or 12
and
580-1 (630mm^2)

Assy Selection
515-4
or
557-12
at 1000 crs (typical)

Construction Type
22CTP

UNDERGROUND DISTRIBUTION
22kV CONSTRUCTION
POLE TERMINATION - 35mm^2/185mm^2 AL TRIPLEX
AND 630mm^2 AL 1 CORE XLPE CABLE
Metal cable guard shall be earthed.
Refer Overhead Construction Manual
EARTHING for pole and cable guard earthing details.

Assy Selection 531-1, 6, 7 or 8
(Refer note 6)
REFER: Overhead Construction Manual
CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND IF LV CABLE TERM.
REQUIRED (TYPICAL)

TERMINATION
LV ABC 4250
1800
2450
300
4550
LV OPEN WIRE

STRAIN
LV ABC 4250
1800
2450
300
4550
LV OPEN WIRE

DELTA INTERMEDIATE
LV ABC 3900
1800
4200
300
LV OPEN WIRE

UNDERGROUND DISTRIBUTION
22kV CONSTRUCTION
POLE TERMINATION WITH LINKS
36mm²/185mm² AL XLPE CABLE

Hard Copy
Uncontrolled
REFER:- Overhead Construction Manual
CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

TRIDENT TERMINATION/STRAIN

TRIDENT INTERMEDIATE

UNDERGROUND DISTRIBUTION
22kV CONSTRUCTION
POLE TERMINATION WITH LINKS (TRIDENT)
35mm²/185mm² AL XLPE CABLE
REFER: Overhead Construction Manual CABLE TERM. POLES for pole top details.

TRIDENT TERMINATION/STRAIN

3700
300
1800
LV ABC
5500

LV OPEN WIRE
5800

TRIDENT INTERMEDIATE

8200
8200

LV ABC
4800

1800
300
LV ABC
4800

5100
LV OPEN WIRE

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

UNDERGROUND DISTRIBUTION
22kV CONSTRUCTION
POLE TERMINATION WITH ABS AND EDO'S
35mm²/185mm² AL XLPE CABLE

HARD COPY UNCONTROLLED

ERGON. ENERGY

DATE 6/9/08
PASSED D. McK
DRAWN G. Lindsay
FILE: 5 68 5076 8
Dwg 5076 Sh 6
REFER: - Overhead Construction Manual
CABLE TERM. POLES
for pole top details.

MINIMUM TO GROUND
IF LV CABLE TERM.
REQUIRED
(TYPICAL)

UNDERGROUND DISTRIBUTION
22kV CONSTRUCTION
POLE TERMINATION WITH ABS AND EDO'S
35mm²/185mm² AL XLPE CABLE
## MATERIAL - TERMINATION

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>511-6</td>
<td>Clamp trefoil to pole term. bracket suit 33kV 50mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>511-11</td>
<td>Clamp trefoil to pole term. bracket suit 33kV 300mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>557-2</td>
<td>Clamp trefoil to wood pole to suit 50mm² cable</td>
<td>AR</td>
</tr>
<tr>
<td>557-6</td>
<td>Clamp trefoil to wood pole to suit 300mm² cable</td>
<td></td>
</tr>
<tr>
<td>539-1</td>
<td>Bracket termination (11kV, 22kV &amp; 33kV) mounting to wood pole</td>
<td>1</td>
</tr>
<tr>
<td>540-5</td>
<td>Arrester 33kV mounting to bracket (M12)</td>
<td>3</td>
</tr>
<tr>
<td>584-1</td>
<td>Termination outdoor 33kV 50mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>584-2</td>
<td>Termination outdoor 33kV 300mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>547-1</td>
<td>Guard wildlife to wood pole</td>
<td>1</td>
</tr>
</tbody>
</table>

## NOTES:
1. Locate cable on opposite side of pole to oncoming traffic where possible.
2. Do Not Obstruct climbing access.
3. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
4. Minimum dimension to ground from termination bracket king bolt allows sufficient ground clearance for an LV underground termination on pole.
5. Dimension from termination bracket king bolt to LV conductor below suits 1 core cable termination. For 3 core termination a greater separation is required.
6. Polymeric cable guard is not to be use in areas:
   - subject to grass fire
   - where metal bladed brush cutter may be used
   - where there is a high likelihood of impact.
7. Refer Earthing Section of the Overhead Construction Manual for minimum separation requirements between metal cable guard and communication assets.
8. Where wildlife is a problem an additional wildlife guard may be installed over the cable.

## MATERIAL - CABLE GUARD

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>531-1</td>
<td>Guard polymeric to wood pole</td>
<td></td>
</tr>
<tr>
<td>531-6</td>
<td>Guard metal (100) to wood pole</td>
<td>1</td>
</tr>
<tr>
<td>531-7</td>
<td>Guard metal (130) to wood pole</td>
<td></td>
</tr>
</tbody>
</table>
Bracket King Bolt

HV Earth - Refer
Overhead Construction
Manual EARTHING
HV Equipment Earth

Earth cable to pass underneath wildlife guard

Refer Sheet 1
Note 8

3500 above ground level

Assy 547-1

Assy Selection
540-5

Assy Selection
584-1 or 2

Assy Selection
511-6 or 11

Assy Selection
557-2
or
557-6
at 1000 crs (typical)

Assy 539-1

Construction Type
33CTP
Metal cable guard shall be earthed. Refer Overhead Construction Manual EARTHING for pole and cable guard earthing details.

Assy Selection 531-1, 6 or 7 (Refer note 6)
TERMINATION/STRAIN

FLAT INTERMEDIATE

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

REFER:- Overhead Construction Manual CABLE TERM. POLES for pole top details.

UNDERGROUND DISTRIBUTION
33kV CONSTRUCTION
POLE TERMINATION WITH ABS AND EDO'S
50mm² / 300mm² Al 1 CORE
### Material - Including Cable Screen Earth Connection

<table>
<thead>
<tr>
<th>ASSY</th>
<th>Description</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>588-4</td>
<td>Cable termination and connection to RMU 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>588-7</td>
<td>Cable termination and connection to RMU 11kV 400mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>510-6</td>
<td>Earth extension elbow connector to station earth</td>
<td>1</td>
</tr>
<tr>
<td>512-4</td>
<td>Cable termination and connection to RMU 22kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>512-7</td>
<td>Cable termination and connection to RMU 22kV 630mm² cable</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>11KV</th>
<th>22KV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>185mm²</td>
<td>400mm²</td>
</tr>
<tr>
<td></td>
<td>185mm²</td>
<td>630mm²</td>
</tr>
</tbody>
</table>

**NOTES:**

1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT any metal before reaching the station earth bar.
Auto Transformer

Assy Selection
588-4
or
588-7
(11kV end)
and
512-4
or
512-7
(22kV end)

Screen earth

To Station
Earth

Assy 510-6

Construction Type
11CTC/TX
22CTC/TX

UNDERGROUND DISTRIBUTION
11kV AND 22kV CONSTRUCTION
22kV/11kV PADMOUNTED AUTO TRANSFORMER
TRIPLEX XLPE CABLE TERMINATION & CONNECTION

Ergon Energy Corporation Ltd
ABN 50 087 646 062

FILE: 5 58 5354 2
Dwg 5354 Sh 2

APPROVED C.Noel
DATE 19.04.16
PASSED A.Bletchly
DRAWN T.Borg