OVERHEAD CONSTRUCTION MANUAL

CABLE TERMINATION POLES
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### 22kV Construction

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### Construction Code Guide

- **11kV Construction**
  - Construction Code Guide - 11kV
  - Construction Code Guide - 22kV
  - Construction Code Guide - 22kV 630mm² Cu
  - Construction Code Guide - 11kV 400mm² Cu
  - 1 core cable
  - Construction Code Guide - 33kV
  - 630mm² Cu 1 core XLPE cable
  - Construction Code Guide - Cable term. gas switch

- **22kV Construction**
  - Construction Code Guide - 22kV
  - Construction Code Guide - 22kV 630mm² Cu
  - 1 core XLPE cable

### STP11DP

- 11kV Delta/flat intermediate with links - material
- 1367/1

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- 11kV Delta/flat intermediate with links
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- 11kV Strain/termination with links - material
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### CTP11T

- 11kV Strain/termination with links
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### CTP11TR

- 11kV Trident Inter/strain/term. with links - material
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- 1369/2

### CTP11FP

- 11kV Flat Intermediate/strain/term. with pole
- 1370/1

### CTP11S

- ABS and EDO's - material
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### CTP11T

- 11kV Flat Intermediate/strain/term. with pole
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### CTP11DP

- 11kV Delta Intermediate with mid pole ABS and EDO's - material
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- 1390/2

### OVERHEAD DISTRIBUTION CABLE TERMINATION POLES

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

### APPROVED

- **C. Noel**

### DATE

- **30.06.05**

### PASSED

- **C. Avenell**

### DRAWN

- **T. Borg**
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### 11/22/33kV CABLE TERM. TO GAS SWITCH CONSTRUCTION

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11kV CABLE TERMINATION POLE - CONSTRUCTION CODE

CTP 11 T 400 ET 2 PG1

VOLTAGE
11 = 11kV

U/G CABLE SIZE
35 = 35mm² Al
185 = 185mm² Al
400 = 400mm² Al

POLE TOP
DP = Delta pin
FP = Flat pin
S = Strain
T = Termination
TR = Trident

PREFIX
CTP = Cable Termination pole
CTPD = Cable Termination pole (Double)

CONNECTOR
PG1 = Connector Al./steel - Cu.
16 - 70mm² / 6 - 50mm²
PG3 = Connector Al./steel - Cu.
35 - 300mm² / 35 - 240mm²

U/G CABLE TERMINATION POLE - CONSTRUCTION CODE

PREFIX
CTP = Cable Termination pole
CTPD = Cable Termination pole (Double)

CONNECTOR
PG1 = Connector Al./steel - Cu.
16 - 70mm² / 6 - 50mm²
PG3 = Connector Al./steel - Cu.
35 - 300mm² / 35 - 240mm²

EXAMPLE:- CTP 11 S 400 L PG1 = Cable termination pole, 11kV, Strain, 400mm² aluminium U/G cable, with Links and using Mains connection PG1.
EXAMPLE:- CTP 11 T 400 ET 2 PG1 = Cable termination pole, 11kV, Termination, 400mm² aluminium U/G cable, with EDO's and pole top mounted ABS, 125mm crossarm, and using mains connection PG1.
**22kV Cable Termination Pole - Construction Code**

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

**EXAMPLE:**

CTP 22 T 185 L 2 PG1 = Cable termination pole, 22kV, Termination, 185mm² aluminium U/G cable, with Links, 125mm crossarm, and using mains connection PG1.

- **PREFIX**
  - CTP = Cable Termination pole
  - CTPD = Cable Termination pole (Double)

- **VOLTAGE**
  - 22 = 22kV

- **U/G CABLE SIZE**
  - 35 = 35mm² Al.
  - 185 = 185mm² Al.

- **POLE TOP**
  - DP = Delta pin
  - FP = Flat pin
  - S = Strain
  - T = Termination
  - TR = Trident

- **POLE TOP X-ARM**
  - DEPTH/WIDTH
    - 1 = 100 x 100
    - 2 = 100 x 125/150
    - (Req'd with: L - Term ET - Flat/Term/Strain)

- **CONNECTOR**
  - PG1 = Connector Al./steel - Cu.
    - 16 - 70mm² / 6 - 50mm²
  - PG3 = Connector Al./steel - Cu.
    - 35 - 300mm² / 35 - 240mm²

- **PREFIX**
  - CTP = Cable Termination pole
  - CTPD = Cable Termination pole (Double)

- **POLE TOP**
  - L = Link
  - ET = EDO used with pole top mounted ABS
    - (ABS not included in this construction)
  - EM = EDO used with mid pole mounted ABS
    - (ABS not included in this construction)

**EXAMPLE:**

- CTP 22 S 185 L PG1 = Cable termination pole, 22kV, Strain, 185mm² aluminium U/G cable, with Links and using mains connection PG1.

- CTP 22 T 185 L 2 PG1 = Cable termination pole, 22kV, Termination, 185mm² aluminium U/G cable, with Links, 125mm crossarm, and using mains connection PG1.

---

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

**Overhead Distribution**
Cable Termination Poles
Construction Code Guide - 22kV

**Date:** 27.3.03
**Passed By:** C. Avenell
**Drawn By:** L. Burton

**File:** 5 09 1366 2
**Dwg:** 1366 Sh 2
22kV 630mm² AL CABLE TERMINATION POLE - CONSTRUCTION CODE

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

CTP 22 T/BA 630 NEO

PREFIX
CTP = Cable Termination pole

VOLTAGE
22 = 22kV

POLE TOP
T = Termination
T/BA = Termination with Bridging Arm

U/G CABLE SIZE
630 = 630mm² Al

CONDUCTOR CODE
MOO = Moon 7/4.75 AAC
PLU = Pluto 19/3.75 AAC
IOD = Iodine 7/4.75 AAAC
NEO = Neon 19/3.75 AAAC

EXAMPLE: CTP 22 T/BA 630 NEO = Cable termination pole, 22kV, Termination with bridging arm, 630mm² 1 core cable, Neon conductor.

OVERHEAD DISTRIBUTION
CABLE TERMINATION POLES
CONSTRUCTION CODE GUIDE - 22kV 630mm² AL 1 CORE XLPE CABLE
11kV 400mm² Cu CABLE TERMINATION POLE - CONSTRUCTION CODE

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

CTP 11 T/BA 400CU/NEO

PREFIX  VOLTAGE  POLE TOP  U/G CABLE SIZE  CONDUCTOR CODE
CTP = Cable Termination pole  11 = 11kV  T = Termination  400CU = 400mm² Cu  MOO = Moon 7/4.75 AAC
T/BA = Termination with Bridging Arm

EXAMPLE:- CTP 11 T/BA 400CU/NEO = Cable termination pole, 11kV, Termination with bridging arm, 400mm² Cu 1 core cable, Neon conductor.
33kV CABLE TERMINATION POLE - CONSTRUCTION CODE

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

**PREFIX**
- CTP = Cable Termination pole
- CTPD = Cable Termination pole (Double)

**VOLTAGE**
- 33 = 33kV

**U/G CABLE SIZE**
- 50 = 50mm² Al.
- 300 = 300mm² Al.

**POLE TOP**
- DP = Delta pin
- FP = Flat pin
- S = Strain
- T = Termination

**POLE TOP X-ARM**
- 1 = 100 x 100
- 2 = 100 x 125/150

**SWITCH TYPE**
- L = Link
- ET = EDO used with pole top mounted ABS (ABS not included in this construction)
- EM = EDO used with mid pole mounted ABS (ABS not included in this construction)

**CONNECTOR**
- PG1 = Connector Al./steel - Cu.
  - 16 - 70mm² / 6 - 50mm²
- PG3 = Connector Al./steel - Cu.
  - 35 - 300mm² / 35 - 240mm²

**U/G CABLE SIZE**
- 50 = 50mm² Al.
- 300 = 300mm² Al.

**DEPTH/WIDTH**
- 1 = 100 x 100
- 2 = 100 x 125/150

**EXAMPLE:**
- CTP 33 S 300 L PG1 = Cable termination pole, 33kV, Strain, 300mm² aluminium U/G cable, with Links and using mains connection PG1.

**EXAMPLE:**
- CTP 33 T 300 L PG1 = Cable termination pole, 33kV, Termination, 300mm² aluminium U/G cable, with Links, 125mm crossarm, and using mains connection PG1.
EXAMPLE: CTSP11VT400L2PG1 = Cable termination Single Circuit Pole, 11kV, Termination, 400mm² aluminium U/G cable, with Links, 125 x 175 crossarm and using mains connection PG1.
**22kV DOUBLE CIRCUIT VERTICAL CONSTRUCTION CABLE TERMINATION POLE - CONSTRUCTION CODE**

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

- **PREFIX**
  - CTSP = Cable Termination Single Circuit Pole
  - CTDP = Cable Termination Double Circuit Pole

- **VOLTAGE**
  - 22 = 22kV

- **U/G CABLE SIZE**
  - 35 = 35mm² Al.
  - 185 = 185mm² Al.

- **POLE TOP X-ARM**
  - DEPTH/WIDTH
    - 1 = 100 x 100/150
    - 2 = 125 x 100/175

- **SWITCH TYPE**
  - L = Link

- **CONNECTOR**
  - PG1 = Connector Al./steel - Cu.
    - 16 - 70mm² / 6 - 50mm²
  - PG3 = Connector Al./steel - Cu.
    - 35 - 300mm² / 35 - 240mm²

**EXAMPLE:-**
CTDP22VS185L2PG1 = Cable termination double circuit pole, 22kV, Vertical strain pole top, 185mm² aluminium U/G cable, with Links, 125 x 175 Crossarm, PG1 connectors.

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**OVERHEAD DISTRIBUTION**

**CABLE TERMINATION POLES**

**CONSTRUCTION CODE GUIDE - 22kV**

**DOUBLE CIRCUIT VERTICAL CONSTRUCTION**
EXAMPLE: - CTSP22VS630PG3 = Cable termination single circuit pole, 22kV, Vertical strain pole top, 630mm² 1 core cable, PG3 Connectors.
Code shown within dashed box appears on relevant construction detail drawnings in this manual.

CTSP 11 VS 400CU/PG3

PREFIX
CTSP = Cable Termination
Single Circuit Pole
CTDP = Cable Termination
Double Circuit Pole

VOLTAGE
11 = 11kV

POLE TOP
VI = Vertical Intermediate
VS = Vertical Strain
VT = Vertical Termination

U/G CABLE SIZE
400CU = 400mm² Cu

CONNECTOR
PG3 = Connector Al./steel - Cu
35 - 300mm² / 35 - 240mm²
PG10 = Connector Al./steel - Cu.
95 - 240mm² / 70 - 185mm²

EXAMPLE:- CTSP11VS400PG3 = Cable termination single circuit pole, 11kV, Vertical strain pole top, 400mm² 1 core cable, PG3 Connectors.
33kV DOUBLE CIRCUIT VERTICAL CONSTRUCTION CABLE TERMINATION POLE - CONSTRUCTION CODE

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

CTSP 33 VS 300 L 2 PG1

VOLTAGE
33 = 33kV

U/G CABLE SIZE
50 = 50mm² Al.
300 = 300mm² Al.

POLE TOP X-ARM
DEPTH/WIDTH
1 = 100 x 100/150
2 = 125 x 100/175

CONNECTOR
PG1 = Connector Al./steel - Cu.
   16 - 70mm² / 6 - 50mm²
PG3 = Connector Al./steel - Cu.
   35 - 300mm² / 35 - 240mm²

SWITCH TYPE
L = Link

EXAMPLE:- CTSP33VS300L2PG1 = Cable termination single circuit pole, 33kV, Vertical strain pole top, 300mm² aluminium U/G cable, with Links, 125 x 175 Crossarm, PG1 connectors.
CABLE TERM TO GAS SWITCH - CONSTRUCTION CODE

CTP 22 GT 2 PG4

MAINS CONNECTION
PG3 = Connector, Al./Steel - Cu.
35-300mm² / 35-240mm²
PG4 = Connector, Cu.-Cu.
16-150mm² / 16-150mm²

VOLTAGE
11 = 11kV
22 = 22kV
33 = 33kV

PREFIX
CTP = Cable Termination Pole

X-ARM SIZE WOOD
(For bridging pins)
(For mid mount)
1 = 100mm width
2 = 150mm width

SWITCH TYPE
GT = Gas switch - Pole top mounted
GM = Gas switch - Mid pole mounted

Gas switch not included in this construction

EXAMPLES: - CTP22GT2PG4 = Cable termination pole, 22kV, Pole top mounted gas switch, 150mm width crossarm, Connector Cu.- Cu.
### OVERHEAD DISTRIBUTION

**11kV DELTA/FLAT INTERMEDIATE WITH LINKS**

### CABLE TERMINATION POLES

**MATERIAL**

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>CTP11 DP 35 L</th>
<th>CTP11 DP 185 L</th>
<th>CTP11 DP 400 L</th>
<th>CTP11 FP 35 L</th>
<th>CTP11 FP 185 L</th>
<th>CTP11 FP 400 L</th>
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<tbody>
<tr>
<td>29-1</td>
<td>Crossarm predrilled single (100) 11/22/33kV to wood pole</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
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<td>Crossarm predrilled 2400x100x100 fuse/link 11/22/33kV</td>
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<tr>
<td>33-1</td>
<td>Brace single to predrilled crossarm (100) and wood pole</td>
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<td>1</td>
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<tr>
<td>87-1</td>
<td>Connector PG Al/steel - Cu (PG1)</td>
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<td>139-1</td>
<td>Switch solid link 11/12.7/22kV to predrilled crossarm (100)</td>
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<tr>
<td>140-6</td>
<td>Cable, insulated 35mm² Cu. (1m)</td>
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<td>140-22</td>
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<td>Lug, compression 150mm² Cu. M12</td>
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### NOTES:

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
### Insulator Pin 11kV
- Pin Insulator 11kV to 100 undrilled crossarm
- Pin Insulator 11kV to 125/150 undrilled crossarm

### Crossarm Predrilled
- Crossarm predrilled 2400x100x100 fuse/link 11/22/33kV
- Crossarm predrilled single (100) 11/22/33kV to wood pole
- Crossarm predrilled 2400x100x100 fuse/link 11/22/33kV
- Brace single to predrilled crossarm (100) and wood pole

### Switch Solid Link 11/12.7/22kV
- Switch solid link 11/12.7/22kV to predrilled crossarm (100)

### Cable Insulation
- Cable, insulated 35mm² Cu. (1m)
- Cable, insulated 150mm² Cu. (1m)
- Cable, insulated 185mm² Cu. (1m)

### Lug Compression
- Lug, compression 35mm² Cu. M12
- Lug, compression 150mm² Cu. M12
- Lug, compression 185mm² Cu. M12

### NOTES:
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### MATERIAL

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>CTP-11 TR 35 L</th>
<th>CTP-11 TR 165 L</th>
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<td>Brace single to predrilled crossarm (100) and wood pole</td>
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<td>56-10</td>
<td>Insulator bridging (clamp top) 33kV to wood pole</td>
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<td>87-1</td>
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<td>Cable, insulated 185mm² Cu. (1m)</td>
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<tr>
<td>141-14</td>
<td>Lug, compression 35mm² Cu. M12</td>
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<td>141-24</td>
<td>Lug, compression 150mm² Cu. M12</td>
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<td>141-26</td>
<td>Lug, compression 185mm² Cu. M12</td>
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### Notes:

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.

2. For wood pole attachments and foundations refer to Construction Practices.

3. Designer to nominate fuse link size. Assembly 89 or 110. Current limiting fuse required in high fault areas.

4. Bridging insulator pin supplied not suitable for 175x125 crossarm. Double 150x100 crossarms should be used in lieu of 175x125 crossarm.
## MATERIAL

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<thead>
<tr>
<th>ASSY</th>
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<td>Brace single to predrilled crossarm (100) and wood pole</td>
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<td>56-10</td>
<td>Insulator bridging (clamp top) 33kV to wood pole</td>
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<td>Connector PG Al/steel - Cu (PG3)</td>
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<td>E.D.O. Fuse switch 11/12.7/22kV (100A) to predrilled crossarm (100)</td>
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<td>140-20</td>
<td>Cable, insulated 150mm² Cu. (1m)</td>
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<td>Cable, insulated 185mm² Cu. (1m)</td>
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<td>Lug, compression 35mm² Cu. M12</td>
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<td>Lug, compression 150mm² Cu. M12</td>
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<td>Lug, compression 185mm² Cu. M12</td>
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</table>

### NOTES:

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2. For wood pole attachments and foundations refer to Construction Practices.
3. Designer to nominate fuse link size. Assembly 89 or 110.
4. Current limiting fuse required in high fault areas.
<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>CTP11 TR 35 EM</th>
<th>CTP11 TR 185 EM</th>
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<td>Crossarm predrilled single (100) 11/22/33kV to wood pole</td>
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<td>Crossarm predrilled 2400x100x100 fuse/link 11/22/33kV</td>
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<td>33-1</td>
<td>Brace single to predrilled crossarm (100) and wood pole</td>
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<td>Insulator bridging (clamp top) 33kV to wood pole</td>
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<tr>
<td>87-1</td>
<td>Connector PG Al/steel - Cu (PG1)</td>
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<td>87-5</td>
<td>Connector PG Al/steel - Cu (PG3)</td>
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<td>140-6</td>
<td>Cable, insulated 35mm² Cu. (1m)</td>
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<td>Lug, compression 35mm² Cu. M12</td>
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<td>142-10</td>
<td>E.D.O. Fuse Switch 11/12.7/22kV to predrilled crossarm (100)</td>
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NOTES:

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2. For wood pole attachments and foundations refer to Construction Practices.
3. Designer to nominate fuse link size. Assembly 89 or 110. Current limiting fuse required in high fault areas.
**MATERIAL - DIRECT TO MAINS (SHEET 1)**

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
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<td>143-10</td>
<td>Lug, compression Bi-metal 120mm² Al. M12</td>
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<tr>
<td>143-16</td>
<td>Lug, compression Bi-metal 240mm² Al. M12</td>
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**MATERIAL - WITH BRIDGING ARM (SHEET 2)**

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<td>Brace single to predrilled crossarm (100) and wood pole</td>
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<td>41-1</td>
<td>Pin Insulator 11kV to 100 predrilled crossarm</td>
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<td>46-1</td>
<td>Insulator Pin 11kV</td>
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<td>Tiewire - Al. Hand tie (H.V.)</td>
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<td>143-10</td>
<td>Lug, compression Bi-metal 120mm² Al. M12</td>
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<td>143-16</td>
<td>Lug, compression Bi-metal 240mm² Al. M12</td>
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2. For wood pole attachments and foundations refer to CONSTRUCTION PRACTICES.

**OVERHEAD DISTRIBUTION**

**CABLE TERMINATION POLES**

11kV TERMINATION DIRECT TO MAINS
400mm² Cu 1 CORE XLPE CABLE - MATERIAL

**Construction Type**

CTP11T
11/22/33kV CONSTRUCTION

Allow sufficient overhead conductor to bridge to pole termination.

Assy 111-7
Assy 46-1
Assy 41-1
Assy 31-10
Assy Selection 143-10 or 16
Drill lug to suit M16 bolt.

Pole Termination:
Refer Underground Construction Manual
HV CONSTRUCTION

EARTHING
HV Equipment Earthing Construction

OVERHEAD DISTRIBUTION
CABLE TERMINATION POLE
11kV TERMINATION WITH BRIDGING ARM
400mm² Cu. 1 CORE XLPE CABLE

ERGON ENERGY
Ergon Energy Corporation Ltd
ABN 63 087 546 062

DRAWN C. Lindsey
FILE: 5 08 1696.2
Dwg 1595 Sh 2

A ORIGINAL ISSUE
27.11.08

B HARD COPY UNCONTROLLED

APPROVED
6/1/07

PAIGNED

CONSTRUCTION TYPE
CTP11T/BA

Working Steps
3000
3100
3550
4000
4450
LV ABC 4800
LV OPEN WIRE 4900
5100

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<td>Brace single to predrilled crossarm (100) and wood pole</td>
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<td>Brace single to predrilled crossarm (100) and wood pole</td>
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<td>141-14</td>
<td>Lug, compression 35mm² Cu. M12</td>
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<td>141-24</td>
<td>Lug, compression 150mm² Cu. M12</td>
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**NOTES:**

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
Pole Termination:
Refer to Underground Construction Manual
HV CONSTRUCTION

TERMINATION

LV OPEN WIRE
4550
4300
3850
3400
Working Steps
2950
2500
2450
Assy 33-1
1450
Assy Selection 40-3 or 4
Assy 31-10
Assy 139-1

LV ABC
3850
Working Steps

Strip Insulation and Tie with Assy 111-11

11/22/33kV CONSTRUCTION

Assy Selection 140-6 or 20
Assy Selection 87-1 or 5
Assy 29-1
Assy Selection 141-14 or 24

CONSTRUCTION

CONSTRUCTION

TERMINATION

HV Equipment Earthing Construction

EARTHING

CONSTRUCTION

CONSTRUCTION

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HV Equipment Earthing Construction

CONSTRUCTION

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CONSTRUCTION
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<td>Crossarm predrilled 2400x100x100 fuse/link 11/22/33kV</td>
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<td>33-1</td>
<td>Brace single to predrilled crossarm (100) and wood pole</td>
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<td>56-10</td>
<td>Insulator bridging (clamp top) 33kV to wood pole</td>
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<td>87-1</td>
<td>Connector PG Al/steel - Cu (PG1)</td>
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<td>139-1</td>
<td>Switch solid link 11/12.7/22kV to predrilled crossarm (100)</td>
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<td>140-20</td>
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<td>141-24</td>
<td>Lug, compression 150mm² Cu. M12</td>
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### NOTES:

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
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<td>40-3</td>
<td>Pin insulator 22/33KV to 100 undrilled crossarm</td>
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<td>46-6</td>
<td>Insulator vice top 33KV (bridging)</td>
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<td>141-24</td>
<td>Lug, compression 150mm² Cu. M12</td>
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<td>142-10</td>
<td>E.D.O. fuse switch 11/12.7/22KV to predrilled crossarm (100)</td>
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NOTES:
1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
3. Designer to nominate fuse link size. Assembly 89 or 110. Current limiting fuse required in high fault areas.
4. Bridging insulator pin supplied not suitable for 175x125 crossarm.
Double 150x100 crossarms should be used in lieu of 175x125 crossarm.
NOTES:
1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
**MATERIAL**

<table>
<thead>
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<th>CT32D 165 EM</th>
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<td>Crossarm predrilled 2400x100x100 fuse/lnk 11/22/33kV</td>
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<td>33-1</td>
<td>Brace single to predrilled crossarm (100) and wood pole</td>
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<tr>
<td>56-10</td>
<td>Insulator bridging (clamp top) 33kV to wood pole</td>
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<td>87-1</td>
<td>Connector PG All/steel - Cu (PG1)</td>
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<td>87-5</td>
<td>Connector PG All/steel - Cu (PG3)</td>
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<tr>
<td>142-10</td>
<td>E.D.O. Fuse switch 11/12.7/22kV (100A) to predrilled crossarm (100)</td>
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<tr>
<td>140-6</td>
<td>Cable, Insulated 35mm² Cu. (1m)</td>
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<td>140-20</td>
<td>Cable, Insulated 150mm² Cu. (1m)</td>
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<td>141-14</td>
<td>Lug, compression 35mm² Cu. M12</td>
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<td>141-24</td>
<td>Lug, compression 150mm² Cu. M12</td>
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</table>

**NOTES:**

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2. For wood pole attachments and foundations refer to Construction Practices.
3. Designer to nominate fuse link size. Assembly 89 or 110. Current limiting fuse required in high fault areas.
11/22/33kV CONSTRUCTION

SWITCHES
Dwg. 1279 Sheet 4

Assy Selection
87-1 or 5

Assy Selection
141-14 or 24

Supply

Assy Selection
140-6 or 20

Assy 56-10

Assy 142-10
Refer Note 3.

Assy 31-10

Assy 33-1

Assy 29-1

Pole Termination:
Refer Underground
Construction Manual
HV CONSTRUCTION

EDO's - Refer drg 1585
CONSTRUCTION
PRACTICES

Working Steps

EARTHING

LV ABC

LV OPEN WIRE

Construction Type

CTP22DP

LV ABC

LV OPEN WIRE
### MATERIAL

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<tr>
<td>31-10</td>
<td>Crossarm predrilled 2400x100x100 fuse/link 11/22/33kV</td>
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<td>33-1</td>
<td>Brace single to predrilled crossarm (100) and wood pole</td>
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<td>56-10</td>
<td>Insulator bridging (clamp top) 33kV to wood pole</td>
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<td>87-5</td>
<td>Connector PG Al/steel - Cu (PG3)</td>
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<tr>
<td>142-10</td>
<td>E.D.O. Fuse switch (100A) 11/12.7/22kV to predrilled crossarm (100)</td>
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<tr>
<td>140-6</td>
<td>Cable, insulated 35mm² Cu. (1m)</td>
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<tr>
<td>140-20</td>
<td>Cable, insulated 150mm² Cu. (1m)</td>
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<td>141-14</td>
<td>Lug, compression 35mm² Cu. M12</td>
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<td>141-24</td>
<td>Lug, compression 150mm² Cu. M12</td>
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### NOTES:

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2. For wood pole attachments and foundations refer to Construction Practices.
3. Designer to nominate fuse link size. Assembly 89 or 110. Current limiting fuse required in high fault areas.
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<th>ASSY</th>
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<td>Brace single to predrilled crossarm (100) and wood pole</td>
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<td>Connector PG Al/steel - Cu (PG3)</td>
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NOTES:
1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
DELTA INTERMEDIATE

Assy Selection 87-1 or 5
Assy 136-3
Assy 33-1
Assy Selection 140-8, or 22
Assy Selection 141-14, or 26

Working Steps

LV ABC
LV OPEN WIRE

EARTHING
HV Equipment Earthing Construction

FLAT INTERMEDIATE

Assy Selection 140-6, or 22
Assy 29-1
Assy 31-10

Working Steps

LV ABC
LV OPEN WIRE

Construction Type
CTP33DP
CTP33FP

Pole Termination:
Refer Underground Construction Manual
HV CONSTRUCTION

Links - Refer drg 1585
CONSTRUCTION PRACTICES

11/22/33kV CONSTRUCTION
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NOTES:

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2. For wood pole attachments and foundations refer to Construction Practices.
Pole Termination: Refer Underground Construction Manual HV CONSTRUCTION

Connections:
- HV CONSTRUCTION
- Strain Construction
- Termination Construction

Links - Refer drg 1585 CONSTRUCTION PRACTICES

Strip insulation and Tie with Assy 111-11

Construction Type

OVERHEAD DISTRIBUTION
CABLE TERMINATION POLES
33kV STRAIN/TERMINATION WITH LINKS
## MATERIAL

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<td>40-3</td>
<td>Pin insulator 22/33kV to 100 undrilled crossarm</td>
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<tr>
<td>40-4</td>
<td>Pin insulator 22/33kV to 125/150 undrilled crossarm</td>
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<tr>
<td>46-6</td>
<td>Insulator vice top 33kV (bridging)</td>
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<td>87-1</td>
<td>Connector PG Al/steel - Cu (PG1)</td>
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<td>Connector PG Al/steel - Cu (PG3)</td>
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<td>140-6</td>
<td>Cable, insulated 35mm² Cu. (1m)</td>
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<td>140-22</td>
<td>Cable, insulated 185mm² Cu. (1m)</td>
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<tr>
<td>141-14</td>
<td>Lug, compression 35mm² Cu. M12</td>
<td>15</td>
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<td>141-26</td>
<td>Lug, compression 185mm² Cu. M12</td>
<td>15</td>
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<td>142-12</td>
<td>E.D.O. fuse switch 19.1/33kV to predrilled crossarm (100)</td>
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### NOTES:

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
3. Designer to nominate fuse link size. Assembly 89 or 110.
   Current limiting fuse required in high fault areas.
4. Bridging insulator pin supplied not suitable for 175x125 crossarm.
   Double 150x100 crossarms should be used in lieu of 175x125 crossarm.
CABLE TERMINATION POLES

SWITCHES
Dwg. 1279 Sheet 3

11/22/33kV CONSTRUCTION
(Refer Note 4)

Assy 46-6
Assy Selection
40-3 or 4

Assy 31-10

Assy 29-1
Assy Selection
140-6, or 22

Assy Selection
141-14, or 26

Assy 33-1

EDO's - Refer drg 1585
CONSTRUCTION
PRACTICES

Drilling detail same for
Intermediate, strain
and termination.

Pole Termination -
Refer Underground
Construction Manual
HV CONSTRUCTION

Working Steps
2700
2750
3200
3650

Working Steps
4100
4500
4550
4800
5000

LV OPEN WIRE

INTERMEDIATE

LV ABC

EARTHING

Abs Earthing Construction

LV ABC

STRAIN/TERMINATION

LV OPEN WIRE

OVERHEAD DISTRIBUTION
CABLE TERMINATION POLES
33kV FLAT INTERMEDIATE/STRAIN/TERM.
WITH POLE TOP, ABS AND EDO’S

CTP33FP
CTP33S
CTP33T

1/22/33kV CONSTRUCTION

Intermediate, strain
and termination.

Construction Type

Working Steps
2700
2750
3200
3650

Working Steps
4100
4500
4550
4800
5000

Construction Type

C. Noel

C. Avenell

L. Burton

Ergon Energy Corporation Ltd
ABN 50 087 646 062

FILE: 5 09 17722
Dwg 1772 Sh 2
## NOTES:

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
3. Designer to nominate fuse link size. Assembly 89 or 110. Current limiting fuse required in high fault areas.

### MATERIAL

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>29-1</td>
<td>Crossarm predrilled single (100) 11/22/33kV to wood pole</td>
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<tr>
<td>31-10</td>
<td>Crossarm predrilled 2400x100x100 fuse/link 11/22/33kV</td>
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<tr>
<td>33-1</td>
<td>Brace single to predrilled crossarm (100) and wood pole</td>
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<tr>
<td>56-10</td>
<td>Insulator bridging (clamp top) 33kV to wood pole</td>
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<tr>
<td>87-1</td>
<td>Connector PG Al/steel - Cu (PG1)</td>
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<tr>
<td>87-6</td>
<td>Connector PG Al/steel - Cu (PG3)</td>
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<td>142-12</td>
<td>E.D.O. Fuse switch 19.1/33kV (100A) to predrilled crossarm (100)</td>
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<td>140-8</td>
<td>Cable, insulated 35mm² Cu. (1m)</td>
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<td>140-22</td>
<td>Cable, insulated 185mm² Cu. (1m)</td>
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<td>141-14</td>
<td>Lug, compression 35mm² Cu. M12</td>
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<tr>
<td>141-26</td>
<td>Lug, compression 185mm² Cu. M12</td>
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</tbody>
</table>
CABLE TERMINATION POLES

Construction Type

Pole Termination:
Refer Underground Construction Manual
HV CONSTRUCTION

Assy 29-1
Assy 31-10

F

F

WITH MID POLE ABS AND EDO'S

Assy Selection
87-1 or 5

Assy 56-10

F

F

EARTHING

ABS Earthing Construction

11/22/33kV CONSTRUCTION

SWITCHES
Dwg. 1279 Sheet 4

Assy Selection
140-6 or 22

Assy 142-12
Refer Note 3.

Assy Selection
141-14 or 26

Assy 33-1

EDO's - Refer drg 1585
CONSTRUCTION
PRACTICES

LV ABC
LV OPEN WIRE

2850 2900 3350 3800

4250 4650 4700 4950 5150

Working Steps

LV 1/2/3/4/5

EARTHING

3800

1700

1850

300

2850 2900 3350 3800

4250 4650 4700 4950 5150

Working Steps

LV ABC
LV OPEN WIRE

Pole Termination:
Refer Underground Construction Manual
HV CONSTRUCTION

ASSY SELECTION

33kV DELTA INTERMEDIATE

Pole Termination:
Refer Underground Construction Manual
HV CONSTRUCTION

CONSTRUCTION

DATE: 98.11.11

DRAWN: L. Barton

APPROVED: C. Noel

DRAWN

DATE

PASSED

ABN 50 087 646 062

ERGON ENERGY CORPORATION LTD

FILE: 5 091773 2

Dwg 1773 Sh 2

OVERHEAD DISTRIBUTION
CABLE TERMINATION POLES
33kV DELTA INTERMEDIATE
WITH MID POLE ABS AND EDO'S

ERGON ENERGY UNCONTROLLED

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ORIGINAL ISSUE

A

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1773

11/22/33kV CONSTRUCTION

SWITCHES
Dwg. 1279 Sheet 4

Assy Selection
140-6 or 22

Assy 142-12
Refer Note 3.

Assy Selection
141-14 or 26

Assy 33-1

EDO's - Refer drg 1585
CONSTRUCTION
PRACTICES

LV ABC
LV OPEN WIRE

2850 2900 3350 3800

4250 4650 4700 4950 5150

Working Steps

LV 1/2/3/4/5

EARTHING

3800

1700

1850

300

2850 2900 3350 3800

4250 4650 4700 4950 5150

Working Steps

LV ABC
LV OPEN WIRE

Pole Termination:
Refer Underground Construction Manual
HV CONSTRUCTION

ASSY SELECTION

33kV DELTA INTERMEDIATE

Pole Termination:
Refer Underground Construction Manual
HV CONSTRUCTION

CONSTRUCTION

DATE: 98.11.11

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ERGON ENERGY CORPORATION LTD

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OVERHEAD DISTRIBUTION
CABLE TERMINATION POLES
33kV DELTA INTERMEDIATE
WITH MID POLE ABS AND EDO'S

ERGON ENERGY UNCONTROLLED

HARD COPY

ORIGINAL ISSUE

A

F

1773
**MATERIAL**

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<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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<tr>
<td>29-10</td>
<td>Cross arm undrilled single (100) 11/22/33kV to wood pole</td>
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<tr>
<td>25-1</td>
<td>Cross arm undrilled 2400x100x100</td>
<td>1</td>
</tr>
<tr>
<td>33-10</td>
<td>Brace single to undrilled cross arm (100) and wood pole</td>
<td>1</td>
</tr>
<tr>
<td>40-3</td>
<td>Pin insulator 22/33kV to 100 undrilled cross arm</td>
<td>3</td>
</tr>
<tr>
<td>40-4</td>
<td>Pin insulator 22/33kV to 125/150 undrilled cross arm</td>
<td>1</td>
</tr>
<tr>
<td>46-6</td>
<td>Insulator vice top 33kV (bridging)</td>
<td>3</td>
</tr>
<tr>
<td>87-5</td>
<td>Connector PG Al/steel - Cu (PG3)</td>
<td>3</td>
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<tr>
<td>87-10</td>
<td>Connector PG Cu - Cu (PG4)</td>
<td>3</td>
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<tr>
<td>140-18</td>
<td>Cable, insulated 120mm² Cu. (1m)</td>
<td>5</td>
</tr>
<tr>
<td>141-22</td>
<td>Lug, compression 120mm² Cu. M12</td>
<td>6</td>
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<tr>
<td>268-12</td>
<td>Lug &amp; cold shrink suit 11kV 180mm² CCT</td>
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<tr>
<td>262-4</td>
<td>11/22kV Joint plate &amp; insulator to cross arm</td>
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<tr>
<td>262-6</td>
<td>33kV Joint plate &amp; insulator to cross arm</td>
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</tbody>
</table>

**NOTES:**

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
3. Bridging insulator pin supplied not suitable for 175x125 cross arm. Double 150x100 crossarms should be used in lieu of 175x125 cross arm.
4. Earth lead to be extended from HV cable termination bracket to gas switch bracket.
11/22/33kV CONSTRUCTION
(Refer Note 3)

Cable Termination:
Dwg. 1933 or 1457

11/22/33kV FLAT INTERMEDIATE/STRAIN/TERM.
WITH POLE TOP GAS SWITCH

Construction Type
CTP11GT
CTP22GT
CTP33GT

Minimum clearance:
- 11kV - 160mm
- 22kV - 280mm
- 33kV - 380mm

Cable Termination:
JOINT PLATE CROSSARM
Drilling Detail Sh. 1

LV ABC
LV OPEN WIRE

OVERHEAD DISTRIBUTION
CABLE TERMINATION POLES
11/22/33kV FLAT INTERMEDIATE/STRAIN/TERM.
WITH POLE TOP GAS SWITCH

Ergon Energy Corporation Ltd
ABN 50 087 646 062

DATE
24/6/14

APPROVED
C. Noel

FILE: 5 09 1948.2

DRAWN
L. Burton

PASSED
C. Avenell
### Table: CABLE TERMINATION POLES

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>11/22kV</th>
<th>33kV</th>
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<tr>
<td>29-10</td>
<td>Crossarm undrilled single (100) 11/22/33kV to wood pole</td>
<td>1</td>
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<tr>
<td>25-1</td>
<td>Crossarm undrilled 2400x100x100</td>
<td>1</td>
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<tr>
<td>33-10</td>
<td>Brace single to undrilled crossarm (100) and wood pole</td>
<td>1</td>
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<tr>
<td>56-1</td>
<td>Insulator bridging (clamp top) 11/22kV to wood pole</td>
<td>2</td>
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<tr>
<td>56-5</td>
<td>Insulator bridging (clamp top) 33kV to wood pole</td>
<td>2</td>
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<tr>
<td>87-5</td>
<td>Connector PG Al/steel - Cu (PG3)</td>
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<tr>
<td>87-10</td>
<td>Connector PG Cu - Cu (PG4)</td>
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<td>3</td>
<td></td>
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<tr>
<td>262-4</td>
<td>11/22kV joint plate &amp; insulator to crossarm</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>262-6</td>
<td>33kV joint plate &amp; insulator to crossarm</td>
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<tr>
<td>140-18</td>
<td>Cable, insulated 120mm² Cu. (1m)</td>
<td>5</td>
<td>5</td>
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<tr>
<td>141-22</td>
<td>Lug, compression 120mm² Cu. M12</td>
<td>6</td>
<td>6</td>
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<tr>
<td>268-12</td>
<td>Lug &amp; cold shrink suit 11kV 180mm² CCT</td>
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</tr>
</tbody>
</table>

### Diagram: JOINT PLATE CROSSARM DRILLING DETAIL

(2400 X 100 X 100)

### Notes:
1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
3. If using intermediate flat pin construction have centre phase on switch side.
4. Earth lead to be extended from HV cable termination bracket to gas switch.
OVERHEAD DISTRIBUTION
CABLE TERMINATION POLES
11/22/33kV INTERMEDIATE / STRAIN / TERM
WITH MID POLE GAS SWITCH

Construction Type
CTP11GM
CTP22GM
CTP33GM

Main structure/conductor
minimum clearance:-
11kV - 160mm
22kV - 280mm
33kV - 380mm

EARTHING
HV equipment dwg 1294 & 1132

Pole Termination :-
Refer Underground Construction Manual
HV CONSTRUCTION

INTERMEDIATE

11/22/33kV CONSTRUCTION

SWITCHES
Dwg. 1932 or 1551

Assy Selection
56-1 or 5

Assy Selection
262-4 or 6

Assy 140-18
Assy 141-22

JOINT PLATE CROSSARM
Drilling Detail Sh. 1

 Assy 29-10
 Assy 25-1

 Assy 268-12

Supply

Assy Selection
87-5 or 10

Cable Termination
Working Steps

2850
2900
3350
3800
4250
4650
4700
4950
5150

LV ABC
LV OPEN WIRE

Working Steps

INTERMEDIATE

1100
1340
1430
1670
2000

ASSY 25-1
ASSY 29-10
ASSY 268-12

(vs)

INTERMEDIATE

4650
4700
4950
5150

LV ABC
LV OPEN WIRE

Working Steps

ASSY 25-1
ASSY 29-10
ASSY 268-12

(vs)
| ASSY | DESCRIPTION | CTDP11VS/T35L | CTDP11VS/T185L | CTDP11VS/T185L | CTDP11VS/T400L | CTSP11VS/T35L | CTSP11VS/T35L | CTSP11V185L | CTSP11V185L | CTSP11V400L | CTSP11V400L |
|------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 40-1 | Pin insulator 11kV to 100 crossarm | 6 | 3 | 6 | 3 | 6 | 3 |
| 40-2 | Pin insulator 11kV to 125/150 crossarm | 6 | 3 | 6 | 3 | 6 | 3 |
| 46-1 | Insulator pin 11kV | 6 | 3 | 6 | 3 | 6 | 3 |
| 87-1 | Connector PG Al/steel - Cu (PG1) | 6 | 3 | 6 | 3 | 6 | 3 |
| 87-5 | Connector PG Al/steel - Cu (PG3) | 6 | 3 | 6 | 3 | 6 | 3 |
| 139-10 | Switch solid link 11/12.7/22kV to undrilled crossarm (100) | 6 | 3 | 6 | 3 | 6 | 3 |
| 139-12 | Switch solid link 11/12.7/22kV to undrilled crossarm (125) | 6 | 3 | 6 | 3 | 6 | 3 |
| 140-6 | Cable, insulated 35mm² Cu. (1m) | 18m | 9m | 18m | 9m |
| 140-20 | Cable, insulated 150mm² Cu. (1m) | 18m | 9m | 18m | 9m |
| 140-22 | Cable, insulated 185mm² Cu. (1m) | 18m | 9m | 18m | 9m |
| 141-14 | Lug, compression 35mm² Cu. M12 | 18 | 9 | 18 | 9 |
| 141-24 | Lug, compression 150mm² Cu. M12 | 18 | 9 | 18 | 9 |
| 141-26 | Lug, compression 185mm² Cu. M12 | 18 | 9 | 18 | 9 |

**NOTES:**

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
3. Pins and insulators are required on termination structures only.

**OVERHEAD DISTRIBUTION**

**11kV DOUBLE CIRCUIT VERTICAL STRAIN / TERMINATION & INTERMEDIATE WITH LINKS - MATERIAL**
### NOTES:

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.

2. For wood pole attachments and foundations refer to Construction Practices.

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<th>CTSP11V/400CU</th>
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<tr>
<td>140-22</td>
<td>Cable, insulated 185mm² Cu. (1m)</td>
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<td>4m</td>
<td>8m</td>
<td>4m</td>
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<td>141-26</td>
<td>Lug, compression 185mm² Cu. M12</td>
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<td>3</td>
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### MATERIAL

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<th>CTDP22/3VS/VT185L</th>
<th>CTSP22/3VS/VT185L</th>
<th>CTDP22/3VS/VT185L</th>
<th>CTSP22/3VS/VT185L</th>
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<td>Pin insulator 22/33kV to 100 crossarm</td>
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<td>3</td>
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<td>3</td>
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<tr>
<td>40-4</td>
<td>Pin insulator 22/33kV to 125/150 crossarm</td>
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<td>46-2</td>
<td>Insulator pin 22kV</td>
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<tr>
<td>87-5</td>
<td>Connector PG Al/steel - Cu (PG3)</td>
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<td>3</td>
<td>6</td>
<td>3</td>
<td>6</td>
<td>3</td>
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<tr>
<td>139-10</td>
<td>Switch solid link 11/12.7/22kV to undrilled crossarm (100)</td>
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<td>6</td>
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<td>Switch solid link 11/12.7/22kV to undrilled crossarm (125)</td>
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<td>6</td>
<td>3</td>
<td>6</td>
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<td>Cable, insulated 35mm² Cu. (1m)</td>
<td>18m</td>
<td>9m</td>
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<td>9m</td>
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<td>Cable, insulated 150mm² Cu. (1m)</td>
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<td>9m</td>
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<td>9m</td>
<td>18m</td>
<td>9m</td>
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<tr>
<td>141-14</td>
<td>Lug, compression 35mm² Cu. M12</td>
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<td>18</td>
<td>9</td>
<td>18</td>
<td>9</td>
</tr>
<tr>
<td>141-24</td>
<td>Lug, compression 150mm² Cu. M12</td>
<td>18</td>
<td>9</td>
<td>18</td>
<td>9</td>
<td>18</td>
<td>9</td>
</tr>
</tbody>
</table>

### NOTES:

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
3. Pins and insulators are required on termination structures only.
### OVERHEAD DISTRIBUTION

CABLE TERMINATION POLES
22kV DOUBLE CIRCUIT VERTICAL DIRECT MAINS
630mm² Al 1 CORE XLPE CABLE - MATERIAL

#### NOTES:

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.

2. For wood pole attachments and foundations refer to Construction Practices.

<table>
<thead>
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<td>Cable, insulated 185mm² Cu. (1m)</td>
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<td>141-26</td>
<td>Lug, compression 185mm² Cu. M12</td>
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Construction Type

CTDP22VT  CTDP22VS  CTDP22VI
CTSP22VT  CTSP22VS  CTSP22VI

For Pole Termination refer Underground Construction Manual HV Construction folder

INTERMEDIATE

DRAWN DATE PASSED APPROVED

HARD COPY UNCONTROLLED

Ergon Energy Corporation Ltd
ABN 50 087 646 062

FILE: 5 09 18442 Dwg 1844 Sh 2
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NOTES:
1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. For wood pole attachments and foundations refer to Construction Practices.
3. Pins and insulators are required on termination structures only.
Cable Termination Wood Pole

Construction Manual
HV Construction

Construction Type

CTDP33VT CTDP33VS CTDP33VI
CTSP33VT CTSP33VS CTSP33VI

Overhead Distribution
33kV Double Circuit Vertical Strain / Term
& Intermediate with Links - Construction

A  Original Issue
B  31.3.14

C. Noel
1/3/13
Approved

C. Avenell
Passed

I. Burton
Drawn

FILE: 5 091846 2

Dwg 1846 Sh 2 B

Ergon Energy Corporation Ltd
ABN 50 087 646 082
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</table>
NOTES:
1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
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HV Construction

Construction Manual

Refer Underground Pole Termination - Practices

Construction Links - Refer drg 1585

Assy Selection: 87-1 or 5
Assy 46-1
Assy 40-1
Assy 25-30
Assy 139-10
Assy 164-15
Assy 25-1
Assy 33-1
Assy Selection 140-6, 20 or 22
Assy Selection 141-14, 24 or 26

Eartthing

HV Equipment Earthing Construction

Termination Construction

11/22/33kV Construction

1000

2650

4450 LVABC

4750 LV Open Wire

Construction Type

CTPD11DP
CTPD11FP
CTPD11S
CTPD11T

Overhead Distribution

Cable Termination Poles

11kV Double Cable Termination - Intermediate/Strain/Term with Links - Construction

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ORIGINAL ISSUE

ERGON ENERGY

Ergon Energy Corporation Ltd
ABN 50 087 646 062

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HV CONSTRUCTION

Construc 11/22/33kV CONSTRUCTION

Refer Underground Pole Termination

PRACTICES

Assy Selection 87-1 or 5
Assy 46-2
Assy 40-3
Assy 25-30
(Refer Detail 'A', sheet 2 for drilling detail)
Assy 139-10
Assy 164-15
Assy 25-12
(Refer Detail 'B', sheet 2 for drilling detail)
Assy 33-1
Assy Selection 140-6 or 20
Assy Selection 141-14 or 24

Strip insulation and tie with Assy 111-11

Links - Refer drg 1585 CONSTRUCTION PRACTICES

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Pole Termination:
Refer Underground Construction Manual
HV CONSTRUCTION

TERMINATION CONSTRUCTION
HV Equipment Earthing Construction

STRAIN / INTERMEDIATE CONSTRUCTION

EARTHING

Construction Type
CTPD22DP
CTPD22FP
CTPD22S
CTPD22T

CABLE TERMINATION POLES
22kV DOUBLE CABLE TERMINATION - INTERMEDIATE STRAIN/TERM WITH LINKS - CONSTRUCTION

FILE: 5.09.2023
Dwg 2023 Sh 3

Ergon Energy Corporation Ltd
ABN 50 087 646 062
L. Burton

DATE 13/10/16
PASSED C. Avenell
DRAWN C. Noel
APPROVED
### MATERIAL

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**DETAIL A**

**LINK CROSSARM ON STAND-OFF BRACKET**

1800x100x100

**DETAIL B**

**LINK CROSSARM WITH BRIDGING PINS DRILLING DETAIL**

2700x100x100

(Omit bridging pins for intermediate/strain constructions)