JUNCTIONS
BURIED CABLE—AERIAL SERVICE

1. GENERAL

1.01 This section describes the treatment of buried PIC cable at junctions with aerial or block service wires.

1.02 This section is reissued to:

- Delete reference to C, D, and E cable closures (rated Manufacture Discontinued)
- Show installations (Fig. 2, 5, 6, and 7) of PC6/48 cable closure, which has replaced C, D, and E cable closures, and PC12/55 cable closure
- Show splice closure or lead sleeve with N-type terminal as installation options (Fig. 1 and 4) where nonaccessible splices may be made at buried—aerial junctions
- Show ground wire sizes (Fig. 3) for use with 128A1A and 128A1A station protectors in 3A1 cable closure
- Add letter P to NC terminal code (Fig. 1, 4, 5, and 6) to indicate plastic sheathed stubs.

1.03 In the typical installations shown in Part 2, the buried cable may be either dead ended or looped through the various closures.

1.04 Where distribution terminals are required at garden apartments, the MC10/48 cable closure may be used (Section 631-470-204).

2. TYPICAL INSTALLATIONS

2.01 Typical installations of buried cable block services are illustrated in Fig. 1, 2, and 3.

2.02 Typical installations of buried cable distribution from poles are illustrated in Fig. 4 through 7.
SECTION 629-230-201

N-TYPE CABLE TERMINAL (SEE TABLE)

NO. 6 (AWG) GROUND WIRE ATTACHED TO TERMINAL GROUND CLAMP ON NH-TYPE TERMINAL

3 IN.

12 IN.

BRIDLE RING

DROP OR STATION WIRE

CABLE CLAMP

APPROX 2 FT

U CABLE GUARD OVER STUB (NOT SHOWN FOR CLARITY)

BURIED SPLICE CLOSURE OR LEAD SLEEVE

BURIED WATERPROOF OR AIRCORE DISTRIBUTION CABLE

N-TYPE CABLE TERMINAL STUB

CAPACITY - N-TYPE CABLE TERMINALS

<table>
<thead>
<tr>
<th>PAIRS TERMINATED (MAX)</th>
<th>TYPE TERMINAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROTECTED SEE NOTE</td>
<td></td>
</tr>
<tr>
<td>10, 16, OR 25</td>
<td>NC-10P, NC-16P, OR NC-25P</td>
</tr>
<tr>
<td>16 OR 25</td>
<td>NH-16 OR NH-25</td>
</tr>
<tr>
<td>UNPROTECTED 10, 16, OR 25</td>
<td>NF-10P, NF-16P, OR NF-25P</td>
</tr>
</tbody>
</table>

NOTE:
STATION PROTECTION; GROUND TERMINAL WITH NO. 6 (AWG) GROUND WIRE TO METALLIC WATER PIPE OR EQUIVALENT.

REFERENCES:
N-TYPE TERMINAL - SECTION 631-210-101
16 TYPE CLOSURE - SECTION 631-600-200;
LEAD SLEEVES - SECTION 633-200-201;
PROTECTION AND G rouds - SECTION 460-100-400.

Fig. 1—N-Type Cable Terminals—Building Mounted
CAPACITY - TERMINAL BLOCKS FOR PC 6/48 AND PC 12/55 CABLE CLOSURES

<table>
<thead>
<tr>
<th>TYPE OF BLOCK</th>
<th>NOTE</th>
<th>PC 6/48 CLOSURE</th>
<th>PC 12/55 CLOSURE</th>
<th>TERMINAL BLOCKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>PAIRS TERMINATED (MAX)</td>
<td>NO. OF BLOCKS (MAX)</td>
<td>PAIRS TERMINATED (MAX)</td>
</tr>
<tr>
<td>PROTECTED 1 AND 2</td>
<td>12</td>
<td>4</td>
<td>18</td>
<td>6</td>
</tr>
<tr>
<td>PROTECTED 2</td>
<td>12</td>
<td>4</td>
<td>18</td>
<td>6</td>
</tr>
<tr>
<td>UNPROTECTED 2</td>
<td>12</td>
<td>4</td>
<td>18</td>
<td>6</td>
</tr>
<tr>
<td>UNPROTECTED 3</td>
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<td>1</td>
<td>12</td>
<td>1</td>
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<td>1</td>
</tr>
<tr>
<td>UNPROTECTED 3</td>
<td>40</td>
<td>4</td>
<td>40</td>
<td>4</td>
</tr>
<tr>
<td>UNPROTECTED 3</td>
<td>50</td>
<td>2</td>
<td>50</td>
<td>2</td>
</tr>
</tbody>
</table>

NOTES:
1. FOR STATION PROTECTION: GROUND CLOSURE TO APPROVED GROUND.
2. USE TERMINAL BLOCKS 6B1A-3 FOR STATION PROTECTION; 6B1B-3 FOR CABLE PROTECTION; AND 6A2-3 WHERE ONLY FUSING PROTECTION IS REQUIRED.

REFERENCES:
PC 6/48 AND PC 12/55 CABLE CLOSURE - SECTION 631-604-210;
PROTECTION AND GROUNDS - SECTION 460-100-400.

Fig. 2—PC6/48 or PC12/55 Cable Closure—Building Mounted
SECTION 629-230-201

CAPACITY-STATION PROTECTORS AND GROUND WIRE SIZES FOR 3A1 CLOSURE

<table>
<thead>
<tr>
<th>TYPE OF BLOCK</th>
<th>PAIRS TERMINATED (MAX)</th>
<th>STATION PROTECTORS</th>
<th>GROUND WIRE SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROTECTED</td>
<td>2</td>
<td>123A1A</td>
<td>NO. 12 (AWG)</td>
</tr>
<tr>
<td>PROTECTED</td>
<td>4</td>
<td>128A1A</td>
<td>NO. 10 (AWG)</td>
</tr>
</tbody>
</table>

NOTE:
STATION PROTECTION: GROUND PROTECTOR TO METALLIC WATER PIPE OR EQUIVALENT

REFERENCES:
3A1 CLOSURE - SECTION 631-600-204; STATION PROTECTOR AND SIGNALING GROUNDS - SECTION 460-100-201; PROTECTION AND GROUNDS - SECTION 460-100-400.

Fig. 3—3A1 Cable Closure—Building Mounted
Fig. 4—Open Wire Feed From Buried Cable—Using Buried Splice Closure and Pole Mounted NC-Type Cable Terminals
SECTION 629-230-201

**NC-TYPE TERMINAL PAIRS TERMINATED (MAX)**

<table>
<thead>
<tr>
<th>Pairs Terminated (Max)</th>
<th>Type Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protected 16, or 25</td>
<td>NC-16P OR NC-25P</td>
</tr>
</tbody>
</table>

**NOTES:**

1. THIS ARRANGEMENT IS INTENDED PRIMARILY FOR USE IN RURAL AREAS ON POLES.

2. UP TO 12 PAIRS CAN BE PROTECTED IN PC 6/48 CLOSURE; UP TO 18 PAIRS CAN BE PROTECTED IN PC 12/55 CLOSURE. WHERE EITHER IS ADEQUATE THERE IS NO NEED FOR N-TYPE TERMINAL.

**REFERENCES:**

- NC-TYPE TERMINALS—SECTION 631-210-101

*Fig. 5—Open Wire Feed From Buried Cable—Using Pole Mounted PC6/48 or PC12/55 Cable Closure and NC-Type Cable Terminals*
**Fig. 6—Open Wire and Rural Wire Feed From Buried Cable**

- **Notes:**
  1. Ground to cable sheath.
  2. Up to 12 pairs can be protected in PC 6/48 closure; up to 18 pairs can be protected in PC 12/55 closure. Where either is adequate there is no need for N-type terminal.

**References:**
- NC-type terminals—Section 631-210-101
POWER COMPANY MULTIGROUND NEUTRAL WIRE.
BEFORE ATTACHING, TEST THE CONDUCTOR WITH
THE 6 VOLTAGE TESTER SECTION 620-105-010.
REMOVE THE INSULATION FROM 109 WIRE FOR
ABOUT 1-1/2 INCHES AND CONNECT TO THE VERTICAL
GROUND WIRE USING THE AT-7796X CONNECTOR.

REFERENCES:
PC6/48 CABLE CLOSURE-

NOTES:
1. AT LOCATIONS WHERE MULTIGROUND NEUTRAL
WIRE IS NOT USED, STAPLE 109 CONSTRUCTION
WIRE TO POLE, FASTEN END OF 109
CONSTRUCTION WIRE TO GROUND LUG INSIDE
PC6/48 OR PC 12/55 CABLE CLOSURE.
2. THIS ILLUSTRATION SHOWS WHERE THE
MULTIPLE WIRE IS TERMINATED IN THE
CLOSURE, WHERE CABLE PROTECTION IS
REQUIRED, IT WILL BE SPECIFIED ON
THE WORK PRINT.

Fig. 7—Multiple Wire Feed From Buried Cable