

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G10.330.3
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Lucas

SYMBOLS AND ABBREVIATIONS

WIRE

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1. GENERAL

1.01 The symbols and abbreviations listed in this section pertain to wire plant and associated items. They are for use in accordance with Section G10.330.1 primarily on construction work plans and records, although some of them may be used on maps.

1.02 This section is reissued to include symbols for "B" Rural, "B" Urban and "C" Rural Wire.

1.03 This section, Issue 2, G10.330.3 supersedes Issue 1, G10.330.3.

1.04 A number of general abbreviations applicable to this and other sections of this series are listed in Part 2 of Section G10.330.1.

2. SYMBOLS FOR WIRE PLANT

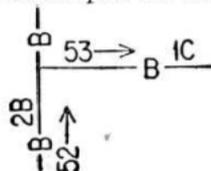
2.01 A 3-digit number is used with Open Wire symbols to indicate the diameter of the wire in mils. The sizes and types of wire shown in Paragraphs 2.02 through 2.11 are for illustrative purposes and in the use of the symbols the proper digits and type data are to be substituted.

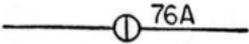
2.02 104 Open Wire Copper Circuit.

2.03 (a) 109 Open Wire Steel Circuit.

(b) 165S Open Wire Steel Circuit when
the size of the wire alone will
not differentiate it from Copper.

- | | | |
|------|-----------------------------------|--|
| 2.04 | 128CS-30 | Open Wire Copper-Steel Circuit having 30 per cent conductivity. Second number indicates per cent conductivity. |
| 2.05 | 104CS-TW | Tree Wire Circuit; Copper-Steel type shown. |
| 2.06 | 165S-RC | Steel River Crossing Wire Circuit; 165 steel type shown. |
| 2.07 | 109H | High Strength Steel Open Wire Circuit. |
| 2.08 | $104 \quad \leftarrow \quad 109H$ | Method of indicating a change in size or type of wire in an open wire circuit. |
| 2.09 | 109E | Extra High Strength Steel Open Wire Circuit. |
| 2.10 | ICO 109H | Independent Company's High Strength Steel Open Wire Circuit. |
| 2.11 | L104 | Leased Open Wire Copper Circuit. |
| 2.12 | 2 PR W | Paired Block, Drop or HD Wire. Figure is used to indicate the number of circuits when more than one. |
| 2.13 | MDW | Multiple Drop Wire. |
| 2.14 | 6 BRW | Six Pair "B" Rural Wire. |
| 2.15 | 16 BUW | Sixteen Pair "B" Urban Wire. |
| 2.16 | 3 CRW | Three Pairs of "C" Rural Wire. |
| 2.17 | --- B --- B --- | One pair type C Underground Wire. The letter "B" indicates the general classification of Buried Wire. |
| 2.18 | 53 → | Date of Placing Buried Wire.
Example of use: |



- 2.19  Indicating 6-foot loop of Slack placed in buried wire.
- 2.20  Buried Wire, Cable, or Manhole Marker. Numeral indicates the marker number.
- 2.21  Open Wire Circuit Bridge.
- 2.22  The presence of a Repeating Coil in a branch circuit is shown by the use of the coil type designation beside the symbol indicating the branch circuit.
- 2.23  Filter of any type. Additional data to be furnished in a supplementary note when necessary.
- 2.24  The crossed lines (X) of this symbol indicate that two circuits are phantom transposed.
- 2.25 DP-8-16-8-P8 Method of indicating open wire circuit Specifications. Type of Insulators (DP), Wire Spacing (8"-16"-8"), and 8" Point Side Brackets used for transpositions.
- 2.26 (a) 140 KC
(b) J-1 Open wire pair transposed for Carrier Operation. (a) Numeral indicates the top of the Nominal Frequency Range. (b) The actual type of Carrier Transposition System may be indicated if desired.
- 2.27  Symbol for indicating Protection Equipment on open wire circuits. The number of items and type of protective equipment is indicated.

2.28 Symbols for equipment associated with M-type Carrier Telephone Systems, which are designed for use on power systems, may be found in Bell System Practices, Section G33.101.1.

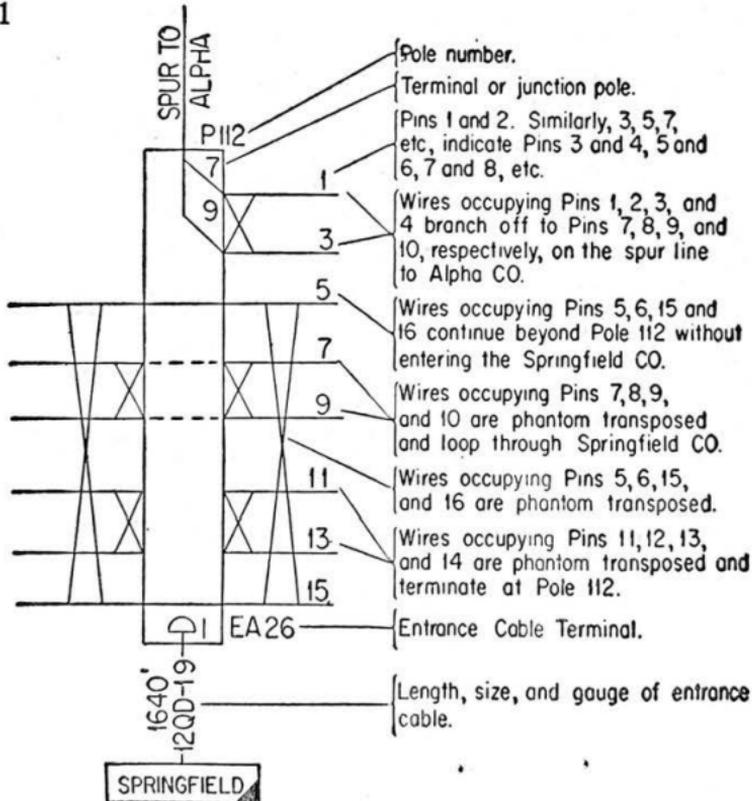
2.29 Symbols for equipment associated with P-type Carrier Telephone Systems are shown in Bell System Practices G10.330.7.

2.30

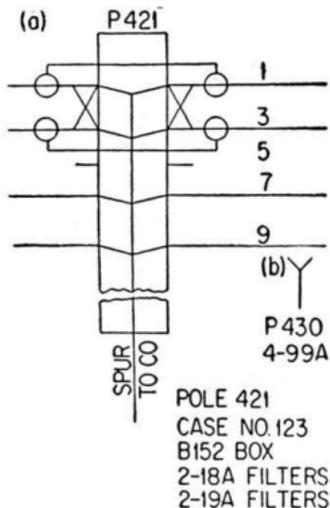
	<u>Bell Co.</u>	<u>Independent Co.</u>	
(a)	□	□	Central Office.
(b)	◻	◻	Toll Central Office.
(c)	△	△	Toll Station.

3. USE OF SYMBOLS IN CIRCUIT DIAGRAMS

3.01



3.02



(a) Illustration of the method of indicating the use of Bypass Filters for carrier circuits at the junction of two phantom groups occupying pin positions 1, 2, 3, and 4 at Pole 421. Pin positions 5 and 6 on the crossarm are unoccupied.

(b) This portion of the diagram shows the method of indicating Protection Equipment installed on a group of open wire circuits (a). Pole identification, number and type of protection equipment are shown in the example.

4. SYMBOLS FOR WIRE TERMINALS

4.01

(a) Looped:



Buried Wire Distribution Terminal. Also for 1093 or other type Protector used as a Wire Terminal.

(b) Terminating:



4.02



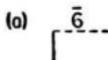
Open Wire Terminal of one circuit capacity having no protector equipment, such as 101-type.

4.03



Multiple Pair Wire Terminal without Protector Facilities. Number of pairs indicated.

4.04



Multiple Pair Wire Terminal with Protector Facilities. Single bar (a) over the size indication signifies Cable Protection, double bar (b) signifies Station Protection.

