

Section B

of TELEPHONE EQUIPMENT & SUPPLIES CATALOG

ISSUED MARCH, 1971

WOOD

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GTE AUTOMATIC ELECTRIC

NORTHLAKE, ILLINOIS 60164 / TELEPHONE (312) 562-7100

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Telephone Poles

Three species of wood are generally used throughout the country for telephone poles:

Southern Yellow Pine (SYP)
Western Red Cedar (WRC)
Northern White Cedar (NWC)

A.S.A. Code Letters

SP
WC
EC

These woods comprise about 90 per cent of the poles currently in use with the remainder taken from various other woods. All three of these have definitely proved their fitness and, when selected and treated to proper specifications, will give a lifetime of satisfactory service. We are equipped to furnish all sizes and types of poles to meet your needs and preferences.

Instructions for Ordering

Freight charges represent a large part of the cost of poles. It is imperative that complete information be given when ordering, or requesting quotation, to avoid errors and assure shipment of correct poles.

Note carefully the following points for ordering:

1. Quantity: Be sure to order at least a minimum car. (See paragraph headed "Carload Quantities.")

2. Sizes: Give A.S.A. class and length.

3. Species: Data in this section covers Creosoted Southern Pine Poles. Information applying to Northern White Cedar and Western Red Cedar furnished on request.

4. Treatment: For pine poles, "eight-pound" treatment is standard, and will be supplied unless otherwise specified. Penta Chlorophenol solutions available for treatment of pine poles when requested. Also full length penta treatment available for Western Red Cedar and Northern White Cedar poles.

5. Framing Instructions: Complete framing instructions are an aid to the prompt handling of pole orders. Because creosoted pine poles should always be framed before treatment, poles with standard framing are furnished, unless otherwise specified (for details, see "Framing Specifications").

6. Destination: Give freight address and name of delivering railroad.

Carload Quantities

Poles are almost invariably sold in carlots because of excessive freight penalties for less. It is very important to specify sufficient quantities to make full railroad minimums.

Following weights apply for single and double carload.

Minimum Weights Single Carloads

Poles 40 feet and under.....40,000 lbs.

Minimum Weights Double Carloads

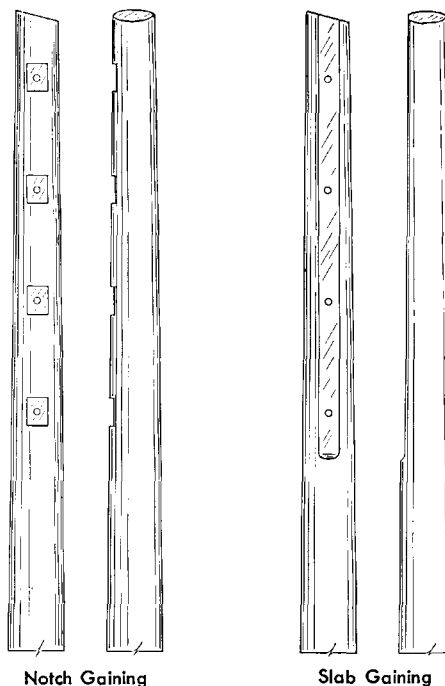
Poles 40 feet and over.....60,000 lbs.

Approximate weights for Creosoted Yellow Pine Poles are shown on page B-3.

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Prices will be furnished upon request.

Framing Specifications



In ordering poles be sure to specify number of gains and spacing between centers. For slab gains specify number of bolt holes and distance between centers. If no framing instructions are given, poles will be furnished with one-way roof, slab gain and bolt holes on 24-inch centers. Two gains will be placed on poles up to and including, 30 feet; three gains on longer ones. Notch gains are $\frac{1}{2}$ -inch deep and $4\frac{3}{4}$ inches wide. Slab gains are cut to $\frac{1}{2}$ -inch depth.

Prices quoted on pine poles include all framing.

When ordering poles with special framing, give the following information:

1. No. of gains (all same size?).
2. Width and depth of gains.
3. Distance, apex of roof to center of first gain.
4. Spacing of gains, center to center.
5. Diameter through-bolt hole, $\frac{11}{16}$ inch unless otherwise specified.

Creosoted Southern Pine Poles

Properly produced Southern Pine Poles have the unique advantage of retaining their high original strength for their full life. Average service life, varying somewhat with size of pole and location of installation, will range from 35 to 45 years under ordinary conditions.

This ability to retain original strength, given by full length pressure treatment, accounts for Creosoted Southern Pine Poles standing through ice and sleet storms, under extremely adverse conditions, where many other poles have failed.

In order to realize these service possibilities, however, it is necessary to exercise utmost care in selecting timber, in moving it rapidly to sterile storage yards after felling, in seasoning and applying adequate preservative treatment.

Pine is one of the strongest commercial timbers but is susceptible to rapid decay unless quickly and properly stacked in well drained yards, free from vegetation and debris and located well away from forest areas.

Combined with lasting strength and natural shapeliness is a symmetrical, smooth appearance obtained by machine trimming. The poles are clean and dry, with color ranging from brown to almost black. This is produced by use of highest grade creosote and a combination steam and vacuum bath after treatment.

Available in standard lengths, from 16 to 90 feet, Creosoted Southern Yellow Pine Poles graded according to A.S.A. dimensions are designated as "class" poles. A.S.A. specifications and shipping weights are in the following tables.

Pole timber is furnished in accordance with specifications which follow. Treatment is to a retention of 8 pounds creosote per cubic foot of wood—in accordance with specifications following those for timber. Can also be furnished treated to a final retention of 8 pounds 5 per cent penta-petroleum solution.

Approximate Weights of Creosoted Yellow Pine Poles—A.S.A. Measurements

Lgth. Pole Ft.	APPROXIMATE WEIGHT, POUNDS									
	CLASS									
	1	2	3	4	5	6	7	9	10	
20	710	564	467	394	330	284	234	202	161	
22	825	674	559	463	398	339	284	234	188	
25	990	811	674	573	491	422	344	289	234	
30	1279	1082	921	784	660	550	454	371	...	
35	1568	1343	1155	1004	862	743	646	...	...
40	1884	1623	1403	1219	1059	921	807	...	...
45	2223	1911	1664	1444	1274	1114	976	...	...
50	2585	2214	1925	1687	1494	1329	1169	...	...
55	2993	2567	2200	1934	1719	1563	...	...	...
60	3451	2943	2512	2186	1953	1801	...	...	...

A.S.A. Dimensions for Creosoted Yellow Pine Poles

Lgth. Pole Ft.	Ground Line Dist. from Butt Ft.	MINIMUM CIRCUMFERENCE AT 6 FEET FROM BUTT, INCHES									
		CLASS									
		1	2	3	4	5	6	7	9	10	
		27	25	23	21	19	17	15	15	12	
20	4	....	....	....	....	....	21.0	19.5	17.5	14.0	
25	5	....	....	....	....	....	23.0	21.5	19.5	15.0	
30	5½	....	34.0	32.0	29.5	27.5	25.0	23.5	20.5	....
35	6	....	36.5	34.0	31.5	29.0	27.0	25.0	....	....
40	6	41.0	38.5	36.0	33.5	31.0	28.5	....	....	....
45	6½	43.0	40.5	37.5	35.0	32.5	....	....	....	....
50	7	45.0	42.0	39.0	....	....	....	....	....	....
55	7½	46.5	43.5	40.5	....	....	....	....	....	....
60	8	48.5	45.0	42.0	....	....	....	....	....	....

Prices will be furnished upon request.

B-3

Fir Cross Arms



Size, Spacing and Weight of Standard Fir Arms

3 1/4 x 4 1/4-Inch Standard Telephone Cross Arms

Ordering No.	Type	Pin Holes	Lgth. In.	Pole Pins In.	Side Pins In.	Brace Bolts In.	Wt., Lbs. per 100
J-5809A	A	10	120	16	12	42	3540
J-5809B	B	10	120	32	10	42	3540
J-5807	..	10	102	16	9 3/4	32	3009
J-5804	..	6	72	16	12	32	2124

2 3/4 x 3 3/4-Inch Pony Telephone Cross Arms

Ordering No.	Pin Holes	Lgth. In.	Center Space In.	Side Pins In.	Brace Bolts In.	Wt., Lbs. per 100
J-5825	10	102	16	9 3/4	28	2295
J-5824	8	82	16	9 3/4	28	1845
J-5823	6	62	16	9 3/4	28	1395
J-5822	4	42	16	9 1/2	28	945

Pin and bolt holes shall be bored so as to take steel gauges as follows: W—pin holes, 1 1/4-inch gauge without forcing, but not 1 19/64-inch gauge; Y—brace bolt holes, 3/8-inch gauge without forcing; Z—middle bolt hole, 5/8-inch gauge without forcing.

Prices quoted upon request.

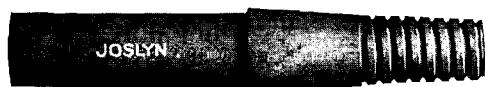
Fir Dead End Cross Arms

Ordering No.	Length Feet	Pins	Dimensions Inches	Wt. Lbs.
J-5896	6	10	3 3/4 x 5	40

Fir Guard Arms

Length Feet	Dimensions Inches	Wt. Lbs.
4	3 1/4 x 4 1/4	14

Wood Insulator Pins



Ordering No.	Size In.	Diam. Top In.	Std. Bundle	Wt., Lbs. per 1000	Price per 100
S-515620	1 1/4 x 8	1	250	325	\$10.25

Allowable Variations

Dimension	Base of Thread	Base of Flange	Shank Length
Over, inches.....	1/64	1/32	3/8
Under, inches.....	1/64	3/16	1/8

Taper of threaded portion shall not be more than 1.25-inch or less than .95-inch per foot.

Wood Insulator Brackets

Standard Unpainted Oak Wood Brackets



Ordering No.	Type	Size Inches	Std. Bundle	Wt., Lbs. per 1000	Price per 100
S-512771	5	1 5/8 x 2 x 12	20	800	\$12.35
S-512770	WU	2 x 2 3/8 x 12	20	1000	16.00

Locust Pin Bushings

Used as locust pin hole plug in cross arm, when steel pin is used in place of wood pin. Also used with carriage and machine bolts for mounting transposition brackets.

Ordering No.	Hole Size In.	Steel Pin Size In.	BUSHING IN. Diam.	Lgth.	Std. Bdl.	Wt. Lbs. per 1000	Price per 100
S-512780	1 1/16	5/8	1 1/4	3 3/8	100	150	\$6.00
S-512781	3/16	1/2	1 1/4	3 3/8	100	150	6.00

Standard Wood Pole Steps



Ordering No.	Size Inches	Std. Bundle	Wt., Lbs. per 1000	Price per 100
S-517533	1 3/4 x 2 3/4 x 7	20	700	\$9.00