POLE LINES

INSPECTION 74 H-J

7400 Pound Fibre Strength
Heavy Storm Loading Area
Joint Use Poles

Contents

1. MINIMUM CIRCUMFERENCES

1.01 The dimensions shown in each inspection table are the minimum circumferences of sound wood at the ground line, failing to meet which a pole should normally be considered inadequate.

1.02 Each table is set up to indicate the minimum circumferences in inches for each combination of wire load, pole length and span length. In referring to the tables the wire load should be taken as that existing at the time of the inspection, together with any expected increase in load before the next inspection.

1.03 The circumferences as measured by the inspector do not allow for hollow heart or pockets in the pole. Where such defects exist, suitable deductions should be made as indicated in Section G21.315, in order to determine the ground line measurement for purposes of comparison with the minimum circumferences in the tables.

1.04 In determining which poles require attention the inspector should compare the corrected circumference measurements, paragraph 1.03, with the appropriate minimum circumferences from the tables, making due allowance for probable decay before the next inspection.

INSPECTION 74 H-J

2. WIRE LOAD REFERENCE

2.01 TELEPHONE WIRE BASE. The EQUIVALENT WIRE LOAD should be computed in terms of effective 104 telephone wires, and reference made to the table by means of the LEFT HAND COLUMN.

2.02 POWER WIRE BASE. The EQUIVALENT WIRE LOAD should be computed in terms of No. 4 covered power wires, and reference made to the table by means of the RIGHT HAND COLUMN.

POLE LINE INSPECTION TABLE 74 H-J

7400 Pound Fibre Strength
Heavy Storm Loading Area
Class J Line—Joint Use with Supply Circuits—Open Wire or Cable

Equivalent Wire Load Telephone Wires	L'gth of Pole in Feet	Minimum Ground Line Circumferences in Inches — Length of Span in Feet 100	110	130	150	175	200	250	300	L'gth of Pole in Feet	Equivalent Wire Load Power Wires
	16	10½	11	11½	12	12½	13	14	15	16	
	20	12	12½	13	13½	14	14½	16	17	20	
	25	13	13½	14	14½	15½	16	17	18	25	
	30	14	14½	15	16	16½	17	18½	19½	30	
	35	15	15½	16½	17	18	18½	20	21	35	
1-4	40	16½	16½	17½	18	19	19½	21	22	40	1-4
	45	17	17½	18	19	20	20½	22	23½	45	
	50	18	18½	19½	20	21	22	23	24½	50	
	60	20	20½	21½	22	23	23½	25	26½	60	
	70	21½	22	22½	23½	24½	25	26½	28	70	
	16	14	14½	15½	16	17	17½	19	20½	16	
	20	16	16½	17	18	19	19½	21	22½	20	
	25	17	17½	18½	19½	20½	21½	23	24½	25	
	30	18½	19	20	21	22	23	24½	26½	30	
	35	20	20½	21½	22½	23½	24½	26½	28	35	
5-10	40	21	21½	22½	23½	25	26	28	29½	40	5-8
	45	22	22½	24	24½	26	27	29	31	45	
	50	23	23½	25	26	27	28½	30½	32½	50	
	60	25	25½	27	28	29½	30½	32½	35	60	
	70	26½	27½	28½	30	31	32	34½	36½	70	
		100	110	130	150	175	200	250	300		

INSPECTION TABLE 74 H-J—(Continued)

Equivalent Wire Load Telephone Wires	L'gth of Pole in Feet	Minimum Ground Line Circumferences in Inches — Length of Span in Feet								L'gth of Pole in Feet	Equivalent Wire Load Power Wires
		100	110	130	150	175	200	250	300		
	16	15½	16	16½	17½	18½	19	20½	22	16	
	20	17	17½	18½	19½	20½	21½	23	24½	20	
	25	18½	19½	20½	21½	22½	23½	25½	27	25	
	30	20½	21	22	23	24½	25½	27	29	30	
	35	21½	22½	23½	24½	26	27	29	31	35	
11-14	40	23	23½	25	26	27½	28½	30½	32½	40	9-11
	45	24	25	26	27½	29	30	32	34	45	
	50	25½	26	27½	28½	30	31½	33½	36	50	
	60	27½	28	29½	30½	32	33½	36	38	60	
	70	29	30	31	32½	34	35½	38	40½	70	
	16	16	16½	17½	18½	19	20	21½	23	16	
	20	18	18½	19½	20½	21½	22½	24½	26	20	
	25	20	20½	21½	22½	23½	24½	26½	28½	25	
	30	21½	22	23½	24½	25½	26½	29	30½	30	
	35	23	23½	25	26	27½	28½	30½	32½	35	
15-17	40	24½	25	26½	27½	29	30	32½	35	40	12-14
	45	25½	26	27½	29	30½	31½	34	36½	45	
	50	26½	27½	29	30	31½	33	35½	37½	50	
	60	29	30	31	32½	34	35½	38	40½	60	
	70	30½	31½	33	34½	36	37½	40	43	70	
	16	16½	17	18	19	20	21	22½	24	16	
	20	19	19½	20½	21½	22½	23½	25½	27	20	
	25	20½	21½	22½	23½	24½	26	28	30	25	
	30	22½	23	24½	25½	27	28	30	32	30	
	35	24	24½	26	27	28½	30	32	34	35	
18-20	40	25½	26	27½	29	30½	31½	34	36	40	15-16
	45	26½	27½	29	30½	31½	33	36	38	45	
	50	28	29	30½	31½	33	34½	37½	39½	50	
	60	30	31	32½	34	36	37	40	42½	60	
	70	32	33	34½	36	37½	39½	42	45	70	
		100	110	130	150	175	200	250	300		

INSPECTION TABLE 74 H-J—(Continued)

Equivalent Wire Load Telephone Wires	L'gth of Pole in Feet	Minimum Ground Line Circumferences in Inches — Length of Span in Feet								L'gth of Pole in Feet	Equivalent Wire Load Power Wires
		100	110	130	150	175	200	250	300		
	20	20	20½	21½	22½	23½	24½	26½	28½	20	
	25	21½	22½	23½	24½	26	27	29	31	25	
	30	23½	24½	25½	27	28	29½	31½	34	30	
	35	25	26	27½	29	30	31½	34	36	35	
21-24	40	26½	27½	29	30½	32	33½	36	38½	40	17-19
	45	28	29	30½	32	33½	35	37½	40	45	
	50	29½	30½	32	33½	35	36½	39½	42	50	
	60	31½	32½	34½	36	37½	39½	42	45	60	
	70	33½	34½	36½	38	40	41½	44½	47½	70	
	20	20½	21	22	23	24½	25½	27½	29	20	
	25	22½	23	24½	25½	26½	28	30	32	25	
	30	24	25	26½	27½	29	30½	32½	35	30	
	35	26	26½	28½	29½	31	32½	35	37½	35	
25-27	40	27½	28½	30	31½	33	34½	37	40	40	20-22
	45	29	30	31½	33	35	36	39	42	45	
	50	30½	31½	33	34½	36½	38	40½	43½	50	
	60	33	34	35½	37	39	40½	43½	46½	60	
	70	34½	36	37½	39½	41½	43	46½	49½	70	
	20	20½	21½	22½	23½	25	26	28	30	20	
	25	23	23½	25	26	27½	29	31	33	25	
	30	25	25½	27	28½	30	31½	33½	36	30	
	35	26½	27½	29	30½	32	33½	36	38½	35	
28-30	40	28½	29½	31	32½	34	35½	38½	41	40	23-24
	45	30	31	32½	34	36	37½	40	43	45	
	50	31½	32	34	35½	37½	39	42	44½	50	
	60	34	35	36½	38½	40	42	45	48	60	
	70	36	37	39	40½	42½	44½	47½	51	70	
		100	110	130	150	175	200	250	300		

INSPECTION TABLE 74 H-J—(Continued)

Equivalent Wire Load Telephone Wires	L'gth of Pole in Feet	Minimum Ground Line Circumferences in Inches — Length of Span in Feet 100	110	130	150	175	200	250	300	L'gth of Pole in Feet	Equivalent Wire Load Power Wires
	20	21½	22	23	24	25½	26½	29	30½	20	
	25	23½	24½	25½	27	28½	29½	32	34	25	
	30	25½	26½	28	29½	31	32	34½	37	30	
	35	27½	28½	30	31½	33	34½	37	40	35	
31-34	40	29½	30½	32	33½	35	37	39½	42½	40	25-27
	45	31	32	33½	35½	37	38½	41½	44½	45	
	50	32½	33½	35½	37	39	40½	43½	46½	50	
	60	35	36	38	40	41½	43½	47	50	60	
	70	37	38	40½	42	44	46	49½	53	70	
	25	24	24½	26	27½	29	30	32½	34½	25	
	30	26	27	28½	30	31½	33	35½	37½	30	
	35	28	29	30½	32	34	35½	38	40½	35	
35-37	40	30	31	32½	34½	36	37½	40½	43	40	28-30
	45	31½	32½	34½	36	38	39½	42½	45½	45	
	50	33	34	36	37½	39½	41½	44½	47½	50	
	60	36	37	39	40½	42½	44½	48	51½	60	
	70	38	39	41	43	45½	47½	51	54	70	
	25	24½	25	26½	27½	29	30½	32½	35	25	
	30	26½	27½	29	30½	32	33½	36	38½	30	
	35	29	30	31½	32½	34½	36	39	41½	35	
38-40	40	30½	31½	33½	35	37	38½	41½	44	40	31-32
	45	32	33½	35	37	38½	40½	43½	46½	45	
	50	34	35	37	38½	40½	42	45½	48½	50	
	60	36½	37½	40	41½	43½	45½	49	52½	60	
	70	39	40	42	44	46½	48½	52	55½	70	
		100	110	130	150	175	200	250	300		