# POLE LINES

## INSPECTION 56 H-J

### 5600 Pound Fibre Strength
### Heavy Storm Loading Area
### Joint Use Poles

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## 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.

## 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 56 H-J

## 5600 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 | 11½ | 12 | 12½ | 13 | 14 | 14 | 15½ | 16½ | 16 | |
| | 20 | 13 | 13½ | 14 | 14½ | 15½ | 16 | 17½ | 18½ | 20 | |
| | 25 | 14 | 14½ | 15½ | 16 | 17 | 17½ | 19 | 20 | 25 | |
| | 30 | 15½ | 16 | 17 | 17½ | 18½ | 19 | 20½ | 21½ | 30 | |
| | 35 | 17 | 17½ | 18½ | 18½ | 19½ | 20½ | 21½ | 23 | 35 | |
| 1-4 | 40 | 18½ | 18½ | 19½ | 20½ | 20½ | 21½ | 23½ | 24½ | 40 | 1-4 |
| | 45 | 19 | 19½ | 20½ | 21 | 22 | 23 | 24 | 26 | 45 | |
| | 50 | 20½ | 20½ | 21½ | 22 | 23 | 23½ | 25½ | 27 | 50 | |
| | 60 | 22½ | 23 | 23½ | 24½ | 25½ | 26½ | 27½ | 29 | 60 | |
| | 70 | 24 | 24½ | 25½ | 26½ | 27 | 28 | 30 | 31 | 70 | |
| | 16 | 15½ | 16 | 17 | 17½ | 18½ | 19½ | 20½ | 22½ | 16 | |
| | 20 | 17½ | 17½ | 19 | 20 | 20½ | 21½ | 23½ | 24½ | 20 | |
| | 25 | 19 | 19½ | 20½ | 21 | 22½ | 23½ | 25 | 27 | 25 | |
| | 30 | 20½ | 20½ | 22 | 23 | 24 | 25 | 27 | 29 | 30 | |
| | 35 | 21½ | 22½ | 23½ | 24½ | 26 | 27 | 29 | 30½ | 35 | |
| 5-10 | 40 | 23½ | 23½ | 25 | 26 | 27 | 28½ | 30½ | 32½ | 40 | 5-8 |
| | 45 | 24 | 25 | 26½ | 27 | 28½ | 30 | 32 | 34 | 45 | |
| | 50 | 25½ | 26 | 27 | 28½ | 30 | 31 | 33 | 36 | 50 | |
| | 60 | 27½ | 28½ | 30 | 31 | 32½ | 33½ | 36 | 38 | 60 | |
| | 70 | 30 | 30½ | 32 | 33 | 34½ | 36 | 38½ | 40½ | 70 | |
| | | 100 | 110 | 130 | 150 | 175 | 200 | 250 | 300 | | |

## INSPECTION TABLE 56 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | 17 | 17½ | 18½ | 19 | 20½ | 21 | 22½ | 24 | 16 | |
| | 20 | 19 | 19½ | 20½ | 21 | 22½ | 23½ | 25½ | 27 | 20 | |
| | 25 | 20½ | 21 | 22½ | 23½ | 24½ | 26 | 27½ | 29½ | 25 | |
| | 30 | 22½ | 23 | 24 | 25½ | 27 | 27½ | 30 | 31½ | 30 | |
| | 35 | 23½ | 24½ | 26 | 27 | 28 | 29½ | 32 | 33½ | 35 | |
| 11-14 | 40 | 25½ | 26 | 27½ | 29 | 30 | 31½ | 33½ | 36 | 40 | 9-11 |
| | 45 | 27 | 27 | 28½ | 30 | 31½ | 33 | 35½ | 37½ | 45 | |
| | 50 | 27½ | 28½ | 30 | 31½ | 33 | 34½ | 36½ | 39 | 50 | |
| | 60 | 30 | 31 | 32½ | 34 | 35½ | 36½ | 39½ | 42 | 60 | |
| | 70 | 32½ | 33 | 34½ | 36½ | 38 | 39½ | 42 | 44½ | 70 | |
| | 16 | 17½ | 18½ | 19 | 20 | 21 | 22 | 23½ | 25 | 16 | |
| | 20 | 20 | 20½ | 21½ | 22½ | 23½ | 25 | 27 | 28½ | 20 | |
| | 25 | 21½ | 22½ | 23½ | 24½ | 26 | 27 | 29½ | 31 | 25 | |
| | 30 | 23½ | 24 | 26 | 27 | 28 | 29½ | 31½ | 33½ | 30 | |
| | 35 | 25 | 26 | 27 | 28½ | 30 | 31 | 33½ | 36 | 35 | |
| 15-17 | 40 | 27 | 27½ | 29 | 30 | 32 | 33 | 36 | 38 | 40 | 12-14 |
| | 45 | 28 | 29 | 30½ | 32 | 33 | 34½ | 37 | 39½ | 45 | |
| | 50 | 29½ | 30 | 32 | 33 | 34½ | 36½ | 39 | 41½ | 50 | |
| | 60 | 32 | 33 | 34½ | 36 | 37½ | 39½ | 42 | 44½ | 60 | |
| | 70 | 34 | 35 | 36½ | 38½ | 40 | 41½ | 44½ | 47 | 70 | |
| | 16 | 18½ | 19 | 20 | 20½ | 22 | 23 | 24½ | 26½ | 16 | |
| | 20 | 20½ | 21 | 22½ | 23½ | 24½ | 26 | 27½ | 29½ | 20 | |
| | 25 | 22½ | 23½ | 24½ | 26 | 27 | 28½ | 30½ | 32½ | 25 | |
| | 30 | 24½ | 25½ | 27 | 28 | 29½ | 30½ | 33 | 35 | 30 | |
| | 35 | 26½ | 27 | 28½ | 30 | 31½ | 33 | 35½ | 37½ | 35 | |
| 18-20 | 40 | 28 | 29 | 30 | 32 | 33 | 35 | 37½ | 39½ | 40 | 15-16 |
| | 45 | 29½ | 30 | 32 | 33 | 35 | 36½ | 39½ | 42 | 45 | |
| | 50 | 30½ | 31½ | 33 | 35 | 36½ | 38 | 41 | 43 | 50 | |
| | 60 | 33 | 34 | 36 | 37½ | 39½ | 41 | 44 | 46½ | 60 | |
| | 70 | 35½ | 36½ | 38½ | 40 | 42 | 43½ | 46½ | 49½ | 70 | |
| | | 100 | 110 | 130 | 150 | 175 | 200 | 250 | 300 | | |

## INSPECTION TABLE 56 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 | 22½ | 23½ | 24½ | 26 | 27 | 29½ | 31 | 20 | |
| | 25 | 23½ | 24½ | 26 | 27 | 28½ | 30 | 32 | 34 | 25 | |
| | 30 | 26 | 27 | 28 | 29½ | 31 | 32½ | 34½ | 37 | 30 | |
| | 35 | 27½ | 28½ | 30 | 31½ | 33 | 34½ | 37 | 39½ | 35 | |
| 21-24 | 40 | 29½ | 30 | 32 | 33½ | 35½ | 36½ | 39½ | 42 | 40 | 17-19 |
| | 45 | 31 | 32 | 33½ | 35½ | 37 | 38½ | 41½ | 44 | 45 | |
| | 50 | 32½ | 33 | 34½ | 36½ | 38½ | 40 | 43 | 46 | 50 | |
| | 60 | 35 | 36 | 38 | 39½ | 41½ | 43 | 46½ | 49 | 60 | |
| | 70 | 37½ | 38½ | 40 | 42½ | 44 | 46 | 49 | 52 | 70 | |
| | 20 | 22 | 23 | 24 | 25½ | 27 | 27½ | 30 | 32 | 20 | |
| | 25 | 24½ | 25 | 27 | 28 | 29½ | 30½ | 33 | 35 | 25 | |
| | 30 | 27 | 27½ | 29 | 30 | 32 | 33 | 36 | 38 | 30 | |
| | 35 | 28½ | 29½ | 31 | 32½ | 34 | 36 | 38½ | 40½ | 35 | |
| 25-27 | 40 | 30½ | 31½ | 33 | 34½ | 36½ | 38 | 41 | 43 | 40 | 20-22 |
| | 45 | 32 | 33 | 34½ | 36½ | 38 | 39½ | 42½ | 45½ | 45 | |
| | 50 | 33 | 34½ | 36½ | 38 | 39½ | 41½ | 44½ | 47½ | 50 | |
| | 60 | 36½ | 37 | 39½ | 41 | 42½ | 45 | 48 | 51 | 60 | |
| | 70 | 38½ | 39½ | 42 | 43½ | 46 | 47½ | 51 | 54 | 70 | |
| | 20 | 22½ | 23½ | 24½ | 26 | 27 | 28½ | 30½ | 32½ | 20 | |
| | 25 | 25 | 26 | 27 | 28½ | 30 | 31½ | 33½ | 36 | 25 | |
| | 30 | 27 | 28 | 30 | 31 | 33 | 34 | 36½ | 39½ | 30 | |
| | 35 | 29½ | 30 | 32 | 33 | 35 | 36½ | 39½ | 42 | 35 | |
| 28-30 | 40 | 31 | 32½ | 34 | 36 | 37½ | 39½ | 42 | 44½ | 40 | 23-24 |
| | 45 | 33 | 34 | 36 | 37½ | 39½ | 41 | 44 | 46½ | 45 | |
| | 50 | 34½ | 35½ | 37½ | 39½ | 41 | 42½ | 46 | 49 | 50 | |
| | 60 | 37 | 38½ | 40 | 42½ | 44½ | 46 | 49½ | 52½ | 60 | |
| | 70 | 39½ | 41 | 42½ | 45 | 47 | 49 | 52½ | 55½ | 70 | |
| | | 100 | 110 | 130 | 150 | 175 | 200 | 250 | 300 | | |

## INSPECTION TABLE 56 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 | 23½ | 24 | 25½ | 26½ | 28 | 29½ | 31½ | 33 | 20 | |
| | 25 | 26 | 27 | 28 | 29½ | 31 | 32½ | 35 | 37 | 25 | |
| | 30 | 28 | 29 | 30½ | 32½ | 33½ | 35½ | 38 | 40½ | 30 | |
| | 35 | 30 | 31 | 33 | 34½ | 36½ | 38 | 41 | 43 | 35 | |
| 31-34 | 40 | 32½ | 33 | 35½ | 36½ | 39 | 40½ | 43½ | 46 | 40 | 25-27 |
| | 45 | 34 | 35 | 37 | 39 | 40½ | 42½ | 46 | 49 | 45 | |
| | 50 | 35½ | 36½ | 39 | 40½ | 42½ | 44½ | 47½ | 50½ | 50 | |
| | 60 | 38½ | 39½ | 42 | 43½ | 46 | 48 | 51½ | 54½ | 60 | |
| | 70 | 41 | 42½ | 44½ | 46½ | 49 | 51 | 55 | 58 | 70 | |
| | 25 | 26½ | 27 | 28½ | 30 | 31½ | 33 | 35½ | 37½ | 25 | |
| | 30 | 29 | 30 | 31 | 33 | 34½ | 36½ | 39 | 41 | 30 | |
| | 35 | 31 | 32 | 33½ | 35½ | 37 | 39 | 42 | 44½ | 35 | |
| 35-37 | 40 | 33 | 34 | 36½ | 37½ | 39½ | 41½ | 44½ | 47½ | 40 | 28-30 |
| | 45 | 35 | 36 | 38 | 39½ | 42 | 43½ | 46½ | 49½ | 45 | |
| | 50 | 36½ | 37½ | 39½ | 41½ | 43½ | 45½ | 49 | 52 | 50 | |
| | 60 | 39½ | 40½ | 42½ | 44½ | 47 | 49 | 52½ | 56 | 60 | |
| | 70 | 42 | 43 | 46 | 47½ | 50 | 52 | 56 | 59 | 70 | |
| | 25 | 27 | 27½ | 29 | 30 | 32 | 33 | 36 | 38½ | 25 | |
| | 30 | 29½ | 30 | 32 | 33 | 35 | 36½ | 39½ | 42 | 30 | |
| | 35 | 31½ | 32½ | 34½ | 36 | 37½ | 39½ | 42½ | 45½ | 35 | |
| 38-40 | 40 | 33½ | 35 | 36½ | 38½ | 40½ | 42½ | 45½ | 48½ | 40 | 31-32 |
| | 45 | 35½ | 36½ | 38½ | 40½ | 42½ | 44½ | 48 | 50½ | 45 | |
| | 50 | 37 | 38½ | 40½ | 42½ | 44½ | 46 | 49½ | 53 | 50 | |
| | 60 | 40 | 41½ | 43½ | 46 | 48 | 50 | 54 | 57 | 60 | |
| | 70 | 42½ | 44 | 46 | 49 | 51 | 53 | 57½ | 61 | 70 | |
| | | 100 | 110 | 130 | 150 | 175 | 200 | 250 | 300 | | |