

SUSPENSION STRAND
SELECTION—LIGHT LOADING AREA

| Contents | Page |
|---|------|
| 1. General..... | 1 |
| 2. Lead Sheath Cables—Copper Conductors.... | 2 |
| 3. Alpth and Stalpth Sheath Cables— Copper Conductors..... | 3 |
| 4. Alpth and Stalpth Sheath Cables— Aluminum Conductors..... | 4 |

1. GENERAL

1.01 This section lists, for the light loading area, the maximum allowable span lengths of various types and weights of lashed cable on each of the sizes of suspension strand.

2. LEAD SHEATH CABLES-COPPER CONDUCTORS

2.01 The following table summarizes the maximum span lengths on which lead sheath, copper conductor cables can be supported in light loading areas.

| <u>Cable Weight</u> <u>(Pounds/Foot)</u> | <u>Maximum Span Length (Feet)</u> | | | |
|---|---|---------------|---------------|---------------|
| | <u>Size of Suspension Strand (Pounds)</u> | | | |
| | <u>6,000</u> | <u>10,000</u> | <u>16,000</u> | <u>25,000</u> |
| .2 | 540 | 650 | 750 | 950 |
| .3 | 520 | 630 | 705 | 885 |
| .4 | 505 | 600 | 675 | 850 |
| .5 | 485 | 575 | 645 | 825 |
| .6 | 475 | 550 | 625 | 795 |
| .7 | 460 | 525 | 600 | 770 |
| .8 | 450 | 500 | 580 | 750 |
| .9 | 405 | 490 | 565 | 725 |
| 1.0 | 370 | 475 | 550 | 710 |
| 1.2 | 310 | 450 | 520 | 675 |
| 1.4 | 270 | 435 | 500 | 645 |
| 1.6 | 240 | 420 | 485 | 620 |
| 1.8 | 215 | 410 | 470 | 595 |
| 2.0 | 195 | 400 | 455 | 575 |
| 2.2 | 180 | 390 | 445 | 555 |
| 2.4 | 160 | 380 | 435 | 535 |
| 2.6 | 150 | 370 | 425 | 525 |
| 2.8 | 140 | 365 | 415 | 510 |
| 3.0 | 130 | 355 | 405 | 500 |
| 3.5 | - | 330 | 390 | 475 |
| 4.0 | - | 290 | 375 | 455 |
| 4.5 | - | 260 | 360 | 415 |
| 5.0 | - | 235 | 350 | 380 |
| 5.5 | - | 215 | 335 | 350 |
| 6.0 | - | 200 | 310 | 325 |
| 6.5 | - | 185 | 285 | 300 |
| 7.0 | - | 170 | 265 | 285 |
| 7.5 | - | 160 | 250 | 265 |
| 8.0 | - | 150 | 230 | 250 |
| 8.5 | - | 140 | 220 | 235 |

3. ALPETH AND STALPETH SHEATH CABLES— COPPER CONDUCTORS

3.01 The following table summarizes the maximum span lengths on which alpeth and stalpeth sheath, copper conductor cables can be supported in light loading areas.

| <u>Cable Weight</u> <u>(Pounds/Foot)</u> | <u>Maximum Span Length (Feet)</u> | | | |
|---|---|---------------|---------------|---------------|
| | <u>Size of Suspension Strand (Pounds)</u> | | | |
| | <u>6,000</u> | <u>10,000</u> | <u>16,000</u> | <u>25,000</u> |
| .2 | 540 | 650 | 750 | 950 |
| .3 | 520 | 630 | 705 | 885 |
| .4 | 505 | 600 | 675 | 850 |
| .5 | 485 | 575 | 645 | 825 |
| .6 | 475 | 550 | 625 | 795 |
| .7 | 445 | 525 | 600 | 770 |
| .8 | 405 | 500 | 580 | 750 |
| .9 | 370 | 490 | 565 | 725 |
| 1.0 | 340 | 475 | 550 | 710 |
| 1.2 | 290 | 450 | 520 | 675 |
| 1.4 | 260 | 435 | 500 | 645 |
| 1.6 | 230 | 420 | 485 | 620 |
| 1.8 | 210 | 410 | 470 | 595 |
| 2.0 | 190 | 400 | 455 | 575 |
| 2.2 | 170 | 390 | 445 | 555 |
| 2.4 | 160 | 380 | 435 | 535 |
| 2.6 | 145 | 370 | 425 | 525 |
| 2.8 | 135 | 365 | 415 | 510 |
| 3.0 | 125 | 350 | 410 | 500 |
| 3.5 | - | 310 | 390 | 475 |
| 4.0 | - | 280 | 375 | 440 |
| 4.5 | - | 250 | 360 | 400 |
| 5.0 | - | 235 | 350 | 365 |

