

**Minimum Tensile
Strength Requirements**

| Wire Size (AWG) | Per MIL-T-7928 (LBS.) | Per UL 486 (LBS) |
|-----------------|-----------------------|------------------|
| 26 | 7 | |
| 24 | 10 | |
| 22 | 15 | 8 |
| 20 | 19 | 13 |
| 18 | 38 | 20 |
| 16 | 50 | 30 |
| 14 | 70 | 50 |
| 12 | 110 | 70 |
| 10 | 150 | 80 |
| 8 | 225 | 90 |
| 6 | 300 | 100 |
| 4 | 400 | 140 |
| 2 | 550 | 180 |
| 1 | 650 | 200 |
| 0 | 700 | 250 |
| 00 | 750 | 300 |
| 000 | 825 | 350 |
| 0000 | 875 | 450 |

**TABLE 12-1
CRIMP TENSILE STRENGTH 1/**

| Wire Barrel Size | Copper Conductor Size, AWG 2/ | Tensile Strength Newtons (Pounds) Minimum |
|------------------|-------------------------------|---|
| 22M & 24 | 28 | 22 (5) |
| | 26 | 36 (8) |
| | 24 | 36 (8) |
| 22D & 22 | 28 | 22 (5) |
| | 26 | 36 (8) |
| | 24 | 36 (8) |
| | 22 | 57 (13) |
| 20 | 24 | 36 (8) |
| | 22 | 57 (13) |
| | 20 | 92 (21) |
| 16 | 20 | 92 (21) |
| | 18 | 142 (32) |
| | 16 | 183 (41) |
| 12 | 14 | 290 (65) |
| | 12 | 459 (103) |
| 10 | 10 | 707 (159) |
| | 8 | 1281 (288) |

**NASA-STD-8739-4
CRIMP STRENGTH TABLE**

**MIL-DTL-22520G
TABLE II. Tensile Strength for Type 1 Tools**

Minimum tensile strength (pounds)

| Wire size Range | Silver- or tin-plated copper wire | | Nickel-plated copper wire | |
|-----------------|-----------------------------------|-----------------------|---------------------------|-----------------------|
| | Initial | After low temp. crimp | Initial | After low temp. crimp |
| 0000 | 875.0 | 787.5 | 785.0 | 706.5 |
| 00 | 750.0 | 675.0 | 675.0 | 607.5 |
| 0 | 700.0 | 630.0 | 630.0 | 567.0 |
| 1 | 650.0 | 585.0 | 585.0 | 526.5 |
| 2 | 550.0 | 495.0 | 495.0 | 445.5 |
| 4 | 400.0 | 360.0 | 360.0 | 324.0 |
| 6 | 300.0 | 270.0 | 270.0 | 243.0 |
| 8 | 220.0 | 198.0 | 200.0 | 180.0 |
| 10 | 150.0 | 135.0 | 135.0 | 121.5 |
| 12 | 110.0 | 93.0 | 100.0 | 85.0 |
| 14 | 70.0 | 61.0 | 60.0 | 53.0 |
| 16 | 50.0 | 45.0 | 37.0 | 33.0 |
| 20 | 20.0 | 14.0 | 19.0 | 13.0 |
| 22 | 12.0 | 7.0 | 8.0 | 5.0 |
| 24 | 8.0 | 5.0 | 6.0 | 4.0 |
| 26 | 5.0 | 4.0 | 3.0 | 2.5 |
| 28 | 3.0 | 1.5 | 2.0 | 1.0 |
| 30 | 1.5 | 0.8 | 1.5 | 0.8 |
| 32 | 1.0 | 0.5 | 1.0 | 0.5 |