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YOUR TRUSTED LIFTING  
& RIGGING SPECIALISTS

# WIRE ROPE SLINGS WLL CHART

## AS 1666

| 1770 Grade Wire Rope Core - Single Leg |               |             |                  |              |      |                       |      | Two, Three and Four Leg |             |       |           |           |
|--|---------------|-------------|------------------|--------------|------|-----------------------|------|-------------------------|-------------|-------|-----------|-----------|
| Method of loading                      | Direct Loaded | Choke Hitch |                  | Basket Hitch |      |                       |      | Direct Loaded           | Choke hitch |       |           |           |
|  |               | Round load  | Rectangular load | Round load   |      | Other than round load |      |                         | Round load  | Other |           |           |
|  |               |             |                  |              |      |                       |      |                         |             |       |           |           |
| Included Angle a                       | -             | -           | -                | 60°          | 90°  | 60°                   | 90°  | 0° to 60°               | 90°         | 120°  | 0° to 45° | 0° to 45° |
| Loading factors                        | 1             | 0.75        | 0.5              | 1.73         | 1.41 | 0.87                  | 0.71 | 1.73                    | 1.41        | 1     | 1.30      | 0.87      |
| Rope dia. (mm)                         |               |             |                  |              |      |                       |      |                         |             |       |           |           |
| 8                                      | 0.78          | 0.58        | 0.39             | 1.35         | 1.1  | 0.68                  | 0.55 | 1.35                    | 1.1         | 0.78  | 1.01      | 0.68      |
| 9                                      | 0.99          | 0.74        | 0.49             | 1.71         | 1.4  | 0.86                  | 0.7  | 1.71                    | 1.4         | 0.99  | 1.29      | 0.86      |
| 10                                     | 1.22          | 0.92        | 0.61             | 2.1          | 1.72 | 1.06                  | 0.87 | 2.1                     | 1.72        | 1.22  | 1.59      | 1.06      |
| 11                                     | 1.48          | 1.11        | 0.74             | 2.6          | 2.1  | 1.29                  | 1.05 | 2.6                     | 2.1         | 1.48  | 1.92      | 1.29      |
| 12                                     | 1.76          | 1.32        | 0.88             | 3            | 2.5  | 1.53                  | 1.25 | 3                       | 2.5         | 1.76  | 2.3       | 1.53      |
| 13                                     | 2.1           | 1.55        | 1.04             | 3.6          | 2.9  | 1.8                   | 1.47 | 3.6                     | 2.9         | 2.1   | 2.7       | 1.8       |
| 14                                     | 2.4           | 1.8         | 1.2              | 4.2          | 3.4  | 2.1                   | 1.71 | 4.2                     | 3.4         | 2.4   | 3.1       | 2.1       |
| 16                                     | 3.1           | 2.3         | 1.56             | 5.4          | 4.4  | 2.7                   | 2.2  | 5.4                     | 4.4         | 3.1   | 4.1       | 2.7       |
| 18                                     | 4             | 3           | 1.98             | 6.8          | 5.6  | 3.4                   | 2.8  | 6.8                     | 5.6         | 4     | 5.1       | 3.4       |
| 20                                     | 4.9           | 3.7         | 2.4              | 8.4          | 6.9  | 4.2                   | 3.5  | 8.4                     | 6.9         | 4.9   | 6.3       | 4.2       |
| 22                                     | 5.9           | 4.4         | 3                | 10.2         | 8.3  | 5.1                   | 4.2  | 10.2                    | 8.3         | 5.9   | 7.7       | 5.1       |
| 24                                     | 7             | 5.3         | 3.5              | 12.2         | 9.9  | 6.1                   | 5    | 12.2                    | 9.9         | 7     | 9.1       | 6.1       |
| 26                                     | 8.3           | 6.2         | 4.1              | 14.3         | 11.6 | 7.2                   | 5.9  | 14.3                    | 11.6        | 8.3   | 10.7      | 7.2       |
| 28                                     | 9.6           | 7.2         | 4.8              | 16.6         | 13.5 | 8.3                   | 6.8  | 16.6                    | 13.5        | 9.6   | 12.4      | 8.3       |
| 32                                     | 12.5          | 9.4         | 6.3              | 22           | 17.6 | 10.9                  | 8.9  | 22                      | 17.6        | 12.5  | 16.3      | 10.9      |

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# WIRE ROPE SLINGS WLL CHART

## AS 1666

| 1960 Grade Wire Rope Core - Single Leg |               |             |                  |              |       |                       |      | Two, Three and Four Leg |       |      |           |            |
|--|---------------|-------------|------------------|--------------|-------|-----------------------|------|-------------------------|-------|------|-----------|------------|
| Method of loading                      | Direct Loaded | Choke Hitch |                  | Basket Hitch |       |                       |      | Direct Loaded           |       |      |           |            |
|  |               | Round load  | Rectangular load | Round load   |       | Other than round load |      |                         |       |      |           | Round load |
|  |               |             |                  |              |       |                       |      |                         |       |      |           |            |
| Included Angle a                       | -             | -           | -                | 60°          | 90°   | 60°                   | 90°  | 0° to 60°               | 90°   | 120° | 0° to 45° | 0° to 45°  |
| Loading factors                        | 1             | 0.75        | 0.5              | 1.73         | 1.41  | 0.87                  | 0.71 | 1.73                    | 1.41  | 1    | 1.30      | 0.87       |
| Rope dia. (mm)                         |               |             |                  |              |       |                       |      |                         |       |      |           |            |
| 8                                      | 0.87          | 0.65        | 0.43             | 1.50         | 1.22  | 0.75                  | 0.61 | 1.50                    | 1.22  | 0.87 | 1.13      | 0.75       |
| 9                                      | 1.09          | 0.82        | 0.55             | 1.89         | 1.54  | 0.95                  | 0.78 | 1.89                    | 1.54  | 1.09 | 1.42      | 0.95       |
| 10                                     | 1.35          | 1.01        | 0.68             | 2.30         | 1.91  | 1.18                  | 0.96 | 2.30                    | 1.91  | 1.35 | 1.76      | 1.18       |
| 11                                     | 1.63          | 1.23        | 0.82             | 2.80         | 2.30  | 1.42                  | 1.16 | 2.80                    | 2.30  | 1.63 | 2.10      | 1.42       |
| 12                                     | 1.94          | 1.45        | 0.97             | 3.30         | 2.70  | 1.69                  | 1.38 | 3.30                    | 2.70  | 1.94 | 2.50      | 1.69       |
| 13                                     | 2.20          | 1.71        | 1.14             | 3.90         | 3.20  | 1.99                  | 1.62 | 3.90                    | 3.20  | 2.20 | 2.90      | 1.99       |
| 14                                     | 2.60          | 1.99        | 1.33             | 4.50         | 3.70  | 2.30                  | 1.88 | 4.50                    | 3.70  | 2.60 | 3.40      | 2.30       |
| 16                                     | 3.40          | 2.60        | 1.73             | 6.00         | 4.80  | 3.00                  | 2.40 | 6.00                    | 4.80  | 3.40 | 4.50      | 3.00       |
| 18                                     | 4.30          | 3.20        | 2.10             | 7.50         | 6.10  | 3.80                  | 3.10 | 7.50                    | 6.10  | 4.30 | 5.60      | 3.80       |
| 20                                     | 5.40          | 4.00        | 2.70             | 9.30         | 7.60  | 4.70                  | 3.80 | 9.30                    | 7.60  | 5.40 | 7.00      | 4.70       |
| 22                                     | 6.50          | 4.90        | 3.20             | 11.30        | 9.20  | 5.70                  | 4.60 | 11.30                   | 9.20  | 6.50 | 8.50      | 5.70       |
| 24                                     | 7.70          | 5.80        | 3.80             | 13.40        | 10.90 | 6.70                  | 5.50 | 13.40                   | 10.90 | 7.70 | 10.10     | 6.70       |
| 26                                     | 9.10          | 6.80        | 4.50             | 1.50         | 1.22  | 0.75                  | 0.61 | 1.50                    | 1.22  | 0.87 | 1.13      | 0.75       |
| 28                                     | 10.50         | 7.90        | 5.30             | 1.89         | 1.54  | 0.95                  | 0.78 | 1.89                    | 1.54  | 1.09 | 1.42      | 0.95       |
| 32                                     | 13.80         | 10.30       | 6.90             | 2.30         | 1.91  | 1.18                  | 0.96 | 2.30                    | 1.91  | 1.35 | 1.76      | 1.18       |
| 36                                     | 17.50         | 13.10       | 8.70             | 2.80         | 2.30  | 1.42                  | 1.16 | 2.80                    | 2.30  | 1.63 | 2.10      | 1.42       |
| 40                                     | 21.60         | 16.20       | 10.80            | 3.30         | 2.70  | 1.69                  | 1.38 | 3.30                    | 2.70  | 1.94 | 2.50      | 1.69       |
| 44                                     | 26.10         | 19.60       | 13.00            | 3.90         | 3.20  | 1.99                  | 1.62 | 3.90                    | 3.20  | 2.20 | 2.90      | 1.99       |
| 48                                     | 31.10         | 23.30       | 15.50            | 4.50         | 3.70  | 2.30                  | 1.88 | 4.50                    | 3.70  | 2.60 | 3.40      | 2.30       |
| 52                                     | 36.60         | 27.40       | 18.30            | 6.00         | 4.80  | 3.00                  | 2.40 | 6.00                    | 4.80  | 3.40 | 4.50      | 3.00       |
| 56                                     | 42.40         | 31.80       | 21.20            | 7.50         | 6.10  | 3.80                  | 3.10 | 7.50                    | 6.10  | 4.30 | 5.60      | 3.80       |
| 58                                     | 47.20         | 35.40       | 23.60            | 9.30         | 7.60  | 4.70                  | 3.80 | 9.30                    | 7.60  | 5.40 | 7.00      | 4.70       |
| 60                                     | 48.60         | 36.40       | 24.30            | 11.30        | 9.20  | 5.70                  | 4.60 | 11.30                   | 9.20  | 6.50 | 8.50      | 5.70       |

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