## Working Load Limits of Superflex Single Slings

## Andromeda Technical sheet \# SF101-02



Superflex Single Slings are used for general lifting purposes where a flexible steel sling is needed.
The WLL is shown in the table in tonnes of 1000 kgsf - the standard Factor of Safety is 5

| Basic cable details |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \frac{0}{0} \\ & \stackrel{0}{0} \end{aligned}$ | $\stackrel{\cdot}{\underline{E}} \underset{\underline{\Sigma}}{\underline{\Sigma}}$ | $\begin{aligned} & \frac{0}{0} \\ & \stackrel{0}{\Pi} \end{aligned}$ | Single Fall WLL | Cradle lift, angle $<30^{\circ}$ | Choked on round load | Choked on rectangular load with edge radius > 1.0 D | $<30^{\circ}$ | $60^{0}$ | $90^{0}$ | $120^{\circ}$ |
| Two-5 | 52 | 10 | 1.0 | 2.0 | 0.7 | 0.5 | 2.0 | 1.7 | 1.4 | 1.0 |
| Three-0 | 75 | 12 | 1.5 | 2.9 | 1.1 | 0.8 | 2.9 | 2.6 | 2.1 | 1.5 |
| Three-5 | 95 | 14 | 1.8 | 3.5 | 1.4 | 0.9 | 3.5 | 3.1 | 2.5 | 1.8 |
| Four-0 | 125 | 16 | 2.4 | 4.7 | 1.8 | 1.2 | 4.7 | 4.2 | 3.4 | 2.4 |
| Four-5 | 157 | 18 | 3.0 | 5.9 | 2.3 | 1.5 | 5.9 | 5.2 | 4.2 | 3.0 |
| Five-0 | 210 | 20 | 4.1 | 8.0 | 3.1 | 2.1 | 8.0 | 7.1 | 5.8 | 4.1 |
| Five-5 | 270 | 22 | 5.2 | 10.2 | 3.9 | 2.6 | 10.2 | 9.0 | 7.3 | 5.2 |
| Six-5 | 345 | 26 | 6.7 | 13.1 | 5.0 | 3.4 | 13.1 | 11.6 | 9.4 | 6.7 |
| Eight-0 | 530 | 32 | 10.3 | 20.2 | 7.7 | 5.2 | 20.2 | 17.8 | 14.5 | 10.3 |
| Ten-0 | 790 | 40 | 15.3 | 30.0 | 11.5 | 7.7 | 30.0 | 26.5 | 21.6 | 15.3 |
| Twelve-0 | 1110 | 48 | 21.6 | 42.1 | 16.1 | 10.8 | 42.1 | 37.2 | 30.3 | 21.5 |
| Fourteen | 1460 | 56 | 28.3 | 55.5 | 21.2 | 14.2 | 55.5 | 49.0 | 39.9 | 28.3 |
| Seventeen | 2168 | 68 | 42.1 | 82.5 | 31.6 | 21.1 | 82.5 | 72.8 | 59.4 | 42.1 |
| Twenty-0 | 3015 | 80 | 58.5 | 114.7 | 43.9 | 29.3 | 114.7 | 101.2 | 82.5 | 58.5 |
| TwentyFour-0 | 4340 | 96 | 84.3 | 165.2 | 63.2 | 42.1 | 165.2 | 145.8 | 118.9 | 84.3 |
| Loading factors forvarious configurations based on the single fall WLL |  |  | 1.0 | 1.96 | 0.75 | 0.5 | 1.96 | 1.73 | 1.41 | 1.0 |

[^0]
[^0]:    These WLL figuresare derived in accordance with AS 1666.1
    Notes on these calculations: to convert the list MBF of Superflex cable in kNs to WLL of a Superflex sling in tonne (1000kgsf) made from that cable, use the follow ing procedure - divide the MBF by 49.05 ( $9.81 \times 5$ ), then multiply this result by 0.95 to allow for the $5 \%$ reduction for sling assembly as required by AS 1666.1. (the all up divisor = 51.5)
    This provides the WLL for a sling in single fall configuration, and from this all the other configurations are calculated.
    Please note-figures are rounded to the closest decimal point

