



SUPERFLEX

Superflex slings are made from a high tensile plaited wire rope laid in a four by three sinnet configuration. Superflex slings are extremely flexible and have excellent applications in general lifting and slinging particularly where choking of the load is required. The flexible nature of Superflex ensures a friction grip that is superior to standard wire rope slings in most applications.

- The ferrule is 18 percent smaller in diameter than equivalent aluminium ones (EN13411 or similar)
- The sling is entirely made of steel. Thus it can be used in maritime and caustic environments such as found in alumina smelters, salt water and similar
- The tapered end neatly covers the wire ends, eliminating the main hazard in using slings, that is cutting hands on the sharp wire ends protruding from the ferrule
- Four inspection holes provide the capability to see the wire ends from any side of the ferrule, as per the requirements of AS 1666
- The ferrule is also tapered at the working end, and chamfered at the throat end, thus providing a sling that has no sharp edges to snap in tight places
- Stainless steel ferrules can be made to the same dimensions when required for special purposes
- The system is scalable, so providing the capability for the manufacture of larger Superflex Slings in future.
- The Double Swage Process delivers an extremely secure termination as well as high resultant strength - it is at least as secure as a hand splice, but the mechanical joint can provide a higher UTS than a splice can
- It provides a centreline exit from the ferrule, improving mechanical and aesthetic design resolution

SUPERFLEX CABLE - BASIC PHYSICAL PARAMETERS#colspan#

FERRULES TO EN 13411 (DIN 3093)

| SUPERFLEX CABLE NOMINAL SIZE (D) | MINIMUM BREAKING FORCE (kN) | MASS OF CABLE (kg/metre) | NOMINAL DIA. (mm) | FREE BREAKING LENGTH | VOLUME OF CABLE (litres/metre) | INCREMENTAL IN-CREASE IN MBF FROM PREVIOUS SIZE | ALLOY FERRULE NOMINAL SIZE | ALLOY FERRULE PRESSED OD (actually die size) | ESTIMATED PRESS CLOSING FORCE NEEDED (tonnes) |
|----------------------------------|-----------------------------|--------------------------|-------------------|----------------------|--------------------------------|---|----------------------------|--|---|
| RATIO D x | | | 1.0 | | | | 1.0 | 2.0 | |
| Two - 0 | 30 | 0.2 | 8 | 15000 | 0.081 | n/a | 8 | 16 | 32 |
| Two - 5 | 50 | 0.31 | 10 | 16200 | 0.121 | 1.66 | 10 | 20 | 50 |
| Three - 0 | 75 | 0.47 | 12 | 16000 | 0.169 | 1.5 | 12 | 24 | 72 |
| Three - 5 | 95 | 0.6 | 14 | 15900 | 0.225 | 1.27 | 14 | 28 | 100 |

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|---------------|------|------|----|-------|-------|------|----|-----|------|
| Four - 0 | 125 | 0.79 | 16 | 15900 | 0.289 | 1.31 | 16 | 32 | 130 |
| Four - 5 | 157 | 1 | 18 | 15700 | 0.361 | 1.25 | 18 | 36 | 160 |
| Five - 0 | 210 | 1.31 | 20 | 16100 | 0.441 | 1.33 | 20 | 40 | 200 |
| Five - 5 | 270 | 1.68 | 22 | 16100 | 0.576 | 1.28 | 22 | 44 | 240 |
| Six - 5 | 345 | 2.12 | 26 | 15800 | 0.784 | 1.26 | 26 | 52 | 340 |
| Eight - 0 | 530 | 3.37 | 32 | 15800 | 1.3 | 1.55 | 32 | 68 | 510 |
| Tem - 0 | 790 | 4.99 | 40 | 15700 | 2.16 | 1.47 | 40 | 84 | 800 |
| Twelve - 0 | 1110 | 6.88 | 48 | 16100 | 3.05 | 1.42 | 48 | 96 | 1150 |
| Fourteen - 0 | 1460 | 9.38 | 56 | 15600 | 4.1 | 1.31 | 56 | 112 | 1500 |
| Seventeen - 0 | 2168 | 13.6 | 68 | 15900 | 6.1 | 1.48 | 68 | 136 | 2300 |
| Twenty - 0 | 3015 | 19 | 80 | 15900 | 8.32 | 1.39 | 78 | 156 | 3200 |
| Twenty 4 - 0 | 4340 | 27.4 | 96 | 15800 | 12 | 1.43 | 96 | 192 | 4500 |