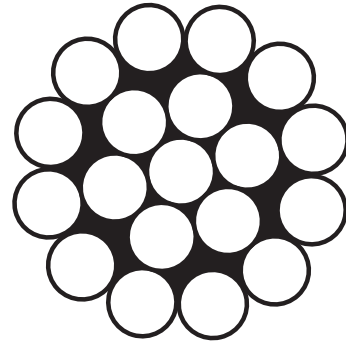


## 1x19 Wire Rope - A4-AISI 316 Stainless Steel

1x19 construction 316 grade stainless steel wire rope is stronger than other types of stainless steel cable and has less stretch. This also means it is non flexible.

1x19 stainless steel wire rope is often used in yacht and sail boat rigging, architectural structural rigging and balustrading.

1x19 construction wire rope does not allow for kinks or bends.



Wire Ø	MBL (kN)	MBL (Kg)	SWL (kg)	Weight (kg/100m)	Code
1mm	0.87	99	16.5	0.49	WS19-010
1.5mm	1.86	190	30	1.11	WS19-015
2mm	3.30	337	56	1.98	WS19-020
2.5mm	5.15	525	87.5	3.10	WS19-025
3mm	7.42	757	126	4.46	WS19-030
4mm	13.2	1350	225	7.93	WS19-040
5mm	20.6	2100	350	12.40	WS19-050
6mm	29.7	3030	500	17.80	WS19-060
8mm	49.4	5040	840	31.70	WS19-080
10mm	77.2	7870	1300	49.50	WS19-100
12mm	104	10600	1766	71.30	WS19-120
14mm	131	13400	2230	97.10	WS19-140
16mm	176	17940	2990	127.00	WS19-160

### Loading

Wire Rope Load Definitions and Explanations

**MBL - Minimum Break Load** = The stress which, when steadily applied to a structural member, is just sufficient to break or rupture it. Also known as ultimate load.

**SWL - Safe Working Load** = Briefly defined, the "safe working load" of a line is the load that can be applied without causing any kind of damage to the wire rope.

Please note that the safe working load is considerably less than the breaking strength.

The SWL is calculated using a given safety factor, SF, which for S3i Ltd, is provided as 6:1

Factors of safety should always be applied when calculating maximum wire rope loading conditions. In cases of doubt, an engineer should be consulted to assess the loading and advise on suitable factors of safety to ensure that overloading cannot occur.

### Technical Standards

Wire rope and strand are manufactured from high tensile, high quality AISI 316 stainless steel grade 1.4401 in fully austenitic condition to give maximum corrosion resistance.

Wire rope dimensions and stainless steel tensile grades conform to BS MA 29 which stipulates tolerances on nominal diameter and minimum tensile strength for wire rope sizes and minimum breaking forces for strands and ropes.