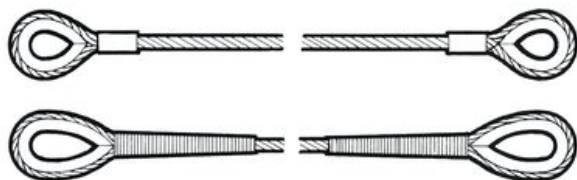


Wire Rope Sling - Load Chart- Quic-Sling

Product information



The working load limits of slings made from general engineering ropes to BS EN 12385-4 should conform to BS EN 13414-1: 2003. Note that the working load limits shown are based on the assumption that soft-eyes of single-part slings are used over bearing points of not less than twice the normal diameter of the rope. All sling ropes must be ordinary lay.

The Safe Working Load will normally be equal to the Working Load Limit but in some circumstances it may be less e.g. If the sling is used in choke hitch $SWL = WLL \times 0.8$.

BS EN 13414-1 covers only those sling assemblies that have legs of equal nominal length, diameter, construction and tensile grade. While sling assemblies with legs of unequal length may be made up generally in accordance with the requirements of BS EN 13414-1, it must be stressed that their rating requires special consideration by a competent person.

Caution

In all cases, where hooks or shackles are used, the WLL of the hooks and shackles shall not be less than that of the leg to which they are attached.

Safety Recommendations

When using multi-leg sling assemblies remember that increasing the angles between the legs will increase the load in each leg. Examine all slings before use and discard any that are defective. Slings which are found to be unfit for use should be destroyed by cutting them up - not put on a refuse dump. "Hooking back" to the leg is not recommended. The Working Load Limit of slings is effected by the method of usage. Check that the crane hook is positioned over the loads centre of gravity to prevent swinging when the load is being raised. Correct signals, according to the recognised code, should be given to the crane driver. The signals must be given by the person responsible for the lift and nobody else.

Keep wire rope slings away from welding and flame cutting operations. The Law requires that all lifting equipment must be examined by a competent person at regular intervals. This includes wire rope slings.

Certex can manufacture slings to DNV 2-7.1 in their approved facility in Montrose.

Diameter mm	One Leg Sling 0° Fibre Core	One Leg Sling 0° Steel Core	Two Leg Sling 0° - 45° Fibre Core	Two Leg Sling 0° - 45° Steel Core	Two Leg Sling >45° - 60° Fibre Core	Two Leg Sling >45° - 60° Steel Core	Three and Four Leg Sling 0° - 45° Fibre Core	Three and Four Leg Sling 0° - 45° Steel Core	Three and Four Leg Sling >45° - 60° Fibre Core	Three and Four Leg Sling >45° - 60° Steel Core	Endless Sling - Choke Hitch 0° Fibre Core	Endless Sling - Choke Hitch 0° Steel Core	Tensile Strength (N/mm²)
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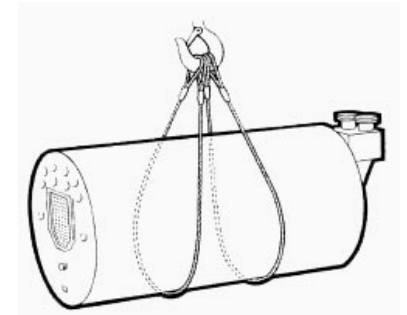
8	0.76	0.82	1.06	1.15	0.76	0.82	1.6	1.72	1.14	1.23	1.22	1.31	1,960
9	0.96	1.04	1.35	1.45	0.96	1.04	2.02	2.18	1.44	1.56	1.54	1.66	1,960
10	1.19	1.28	1.66	1.79	1.19	1.28	2.49	2.69	1.78	1.92	1.9	2.05	1,960
11	1.44	1.55	2.01	2.17	1.44	1.55	3.02	3.25	2.16	2.32	2.3	2.48	1,960
12	1.71	1.84	2.39	2.57	1.71	1.84	3.59	3.85	2.56	2.75	2.73	2.94	1,960
13	2	2.17	2.8	3.03	2	2.17	4.2	4.55	3	3.25	3.2	3.47	1,960
14	2.33	2.51	3.26	3.52	2.33	2.51	4.9	5.28	3.5	3.77	3.73	4.02	1,960
16	3.05	3.29	4.27	4.6	3.05	3.29	6.4	6.9	4.57	4.93	4.88	5.26	1,960
18	3.85	4.15	5.4	5.81	3.85	4.15	8.09	8.71	5.78	6.22	6.17	6.64	1,960
20	4.75	5.12	6.66	7.17	4.75	5.12	9.98	10.75	7.13	7.68	7.61	8.19	1,960
22	5.75	6.2	8.04	8.69	5.75	6.2	12.06	13.03	8.62	9.31	9.19	9.93	1,960
24	6.85	7.38	9.58	10.33	6.85	7.38	14.38	15.5	10.27	11.07	10.95	11.81	1,960
26	8.02	8.66	11.23	12.13	8.02	8.66	16.84	18.19	12.03	13	12.83	13.86	1,960
28	9.31	10.04	13.03	14.06	9.31	10.04	19.54	21.08	13.96	15.06	14.89	16.06	1,960
32	12.15	13.12	17.01	18.37	12.15	13.12	25.52	27.56	18.23	19.69	19.44	21	1,960
36	15.38	16.59	21.53	23.23	15.38	16.59	32.3	34.84	23.07	24.89	24.61	26.55	1,960
40	19.09	20.56	26.72	28.78	19.09	20.56	40.09	43.17	28.63	30.84	30.54	32.89	1,770
44	22.94	24.78	32.12	34.69	22.94	24.78	48.18	52.04	34.42	37.17	36.71	39.65	1,770
48	27.35	29.55	38.29	41.37	27.35	29.55	57.43	62.06	41.02	44.33	43.76	47.28	1,770
52	32.12	34.69	44.97	48.57	32.12	34.69	67.45	72.85	48.18	52.04	51.39	55.51	1,770
56	37.26	40.2	52.16	56.28	37.26	40.2	78.25	84.41	55.89	60.3	59.62	64.32	1,770
60	42.77	46.07	59.87	64.5	42.77	46.07	89.81	96.75	64.15	69.11	68.43	73.71	1,770

Technical data

Typical Sling Arrangements

Cradle Sling

Lifting coils, steel strip, etc. Basket Hitch
 $SWL = 1.4 \times WLL$ of sling Protect Rope from sharp corners.



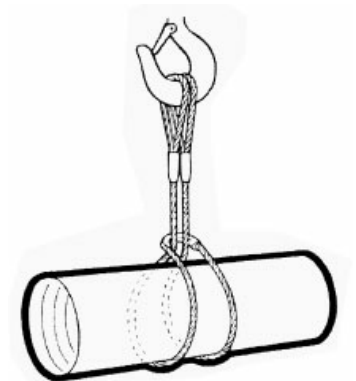
Cradle Slings

Lifting boilers and packaging cases, etc. Double Basket Hitch $SWL = 2.1 \times WLL$ of single sling.



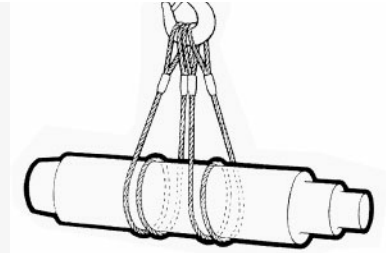
Halshing Slings

Method using a single sling in place of an endless sling where a 'bight' is required. A stirrup fitted temporarily in the bight will minimise damage to the sling. Double and Choked.
 $SWL = 1.6 \times WLL$ of sling.



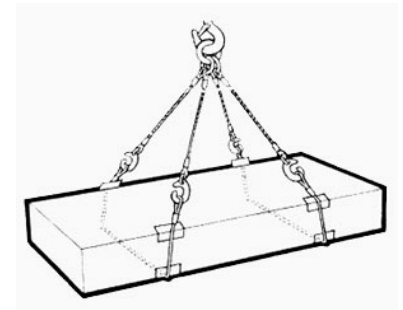
Double Wrap Slings

Note how the double wrap grips the load and helps to prevent it from slipping sideways out of the slings. Double Wrap Basket Hitch
 $SWL = 2.1 \times WLL$ of single sling



Combination Slings

Timber steel sheets and packing cases, etc. N.B. Maximum angle from vertical is 45°



Reeving Slings

Lifting tubes, bars and rods, etc. Double Choke Hitch $SWL = 1.1 \times WLL$ of single sling

