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Wire rope sling load chart pdf

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angle	0°	0°	0°-45°	45°-60°	0°-45°	45°-60°	0°-45°	45°-60°	0°
factor	1	0.8	1.4	1	1.12	0.8	2.1	1.5	1.6
diameter	mm								
working load limit (WLL)									
kg									
6	380	300	530	380	430	300	800	570	610
8	700	560	950	700	780	560	1500	1050	1100
10	1050	840	1500	1050	1100	840	2250	1600	1700
12	1550	1240	2120	1550	1700	1240	3300	2300	2500
14	2120	1600	3000	2120	2300	1600	4350	3150	3300
16	2700	2100	3850	2700	3000	2100	5650	4200	4350
18	3420	2700	4800	3420	3800	2700	7200	5200	5650
20	4350	3400	6000	4350	4800	3400	9000	6500	6900
22	5200	4100	7200	5200	5800	4100	11000	7800	8400
24	6300	5000	8800	6300	7000	5000	13500	9400	10000
26	7200	5700	10000	7200	8000	5700	15000	11000	11800
28	8400	6700	11800	8400	9400	6700	18000	12500	13500
32	11000	8800	15000	11000	12300	8800	23500	16500	18000
36	14000	11200	19000	14000	15600	11200	29000	21000	22500
40	17000	13600	23500	17000	19000	13600	36000	26000	28000

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 x 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 of a sling is not recommended. The Safe Working Load of slings is affected 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 tackle must be examined by a competent person at regular intervals. This includes the wire rope slings. Slingers should not stow away slings and regard them as their own private property, as this could lead to them being overlooked at inspection time. Cortex can manufacture slings to DNV 2-7.1 in our approved facility in Montrose. 0%(10% found this document useful (1 vote)956 views1 page