

Wire Rope Slings – Grade 1770

Working Load Limits In Tonnes



Method of Loading		Direct Loaded	Choke Hitch		Basket Hitch								Direct Loaded			Choke Hitch			
Rope			Round Load	Rect. Load	Round Load				Other than Round Load				Round Load	Other than Round Load					
Nom. Dia (mm)	Min Breaking Force (kN)				Single Wrap	Double Wrap	Single Wrap	Double Wrap	Single Wrap	Double Wrap	Single Wrap	Double Wrap		Single Wrap	Double Wrap				
Included Angle		-	-	-	0°	60°	90°	120°	0°	60°	90°	120°	0-60°	90°	120°	0°-45°	0°-60°	0°-45°	0°-60°
Loading Factors		1 x 0.95	0.75 x 0.95	0.5 x 0.95	2 x 0.95	1.73 x 0.95	1.41 x 0.95	1 x 0.95	1 x 0.95	0.87 x 0.95	0.71 x 0.95	0.5 x 0.95							
8mm	40.2	0.78	0.58	0.39	1.56	1.35	1.10	0.78	0.78	0.68	0.55	0.39	1.35	1.10	0.78	1.01	0.68		
9mm	51.1	0.99	0.74	0.49	1.98	1.71	1.40	0.99	0.99	0.86	0.70	0.49	1.71	1.40	0.99	1.29	0.86		
10mm	63.1	1.22	0.92	0.61	2.4	2.1	1.72	1.22	1.22	1.06	0.87	0.61	2.1	1.72	1.22	1.59	1.06		
11mm	76.3	1.48	1.11	0.74	3.0	2.6	2.1	1.48	1.48	1.29	1.05	0.74	2.6	2.1	1.48	1.92	1.29		
12mm	90.8	1.76	1.32	0.88	3.5	3.0	2.5	1.76	1.76	1.53	1.25	0.88	3.0	2.5	1.76	2.3	1.53		
13mm	107	2.1	1.55	1.04	4.1	3.6	2.9	2.1	2.1	1.80	1.47	1.04	3.6	2.9	2.1	2.7	1.80		
14mm	124	2.4	1.80	1.20	4.8	4.2	3.4	2.4	2.4	2.1	1.71	1.20	4.2	3.4	2.4	3.1	2.1		
16mm	161	3.1	2.3	1.56	6.2	5.4	4.4	3.1	3.1	2.7	2.2	1.56	5.4	4.4	3.1	4.1	2.7		
18mm	204	4.0	3.0	1.98	7.9	6.8	5.6	4.0	4.0	3.4	2.8	1.98	6.8	5.6	4.0	5.1	3.4		
20mm	252	4.9	3.7	2.4	9.8	8.4	6.9	4.9	4.9	4.2	3.5	2.4	8.4	6.9	4.9	6.3	4.2		
22mm	305	5.9	4.4	3.0	11.8	10.2	8.3	5.9	5.9	5.1	4.2	3.0	10.2	8.3	5.9	7.7	5.1		
24mm	363	7.0	5.3	3.5	14.1	12.2	9.9	7.0	7.0	6.1	5.0	3.5	12.2	9.9	7.0	9.1	6.1		
26mm	426	8.3	6.2	4.1	16.5	14.3	11.6	8.3	8.3	7.2	5.9	4.1	14.3	11.6	8.3	10.7	7.2		
28mm	494	9.6	7.2	4.8	19.1	16.6	13.5	9.6	9.6	8.3	6.8	4.8	16.6	13.5	9.6	12.4	8.3		
32mm	646	12.5	9.4	6.3	25	22	17.6	12.5	12.5	10.9	8.9	6.3	22	17.6	12.5	16.3	10.9		
36mm	817	15.8	11.9	7.9	32	27	22	15.8	15.8	13.8	11.2	7.9	27	22	15.8	21	13.8		
40mm	1010	19.6	14.7	9.8	39	34	28	19.6	19.6	17	13.9	9.8	34	28	19.6	25	17.0		
44mm	1220	24	17.7	11.8	47	41	33	24	24	21	16.8	11.8	41	33	24	31	21		
48mm	1450	28	21	14.0	56	49	40	28	28	24	19.9	14	49	40	28	37	24		
52mm	1710	33	25	16.6	66	57	47	33	33	29	24	16.6	57	47	33	43	29		
56mm	1980	38	29	19.2	77	66	54	38	38	33	27	19.2	66	54	38	50	33		
60mm	2270	44	33	22	88	76	62	44	44	38	31	22	76	62	44	57	38		

* The values are based on 1770 grade bright and galvanized steel wire ropes of 6 x 25 to 6 x 41 construction with a wire-rope core, as specified for IWRC in AS 3569:2010

* For fibre-core ropes, these values shall be reduced by 8%

* For wire ropes with a grade higher than 1770, the WLL shall be calculated on the minimum breaking strength of the rope in accordance with Clause 9 AS 3569:2010

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