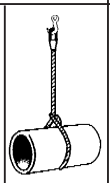
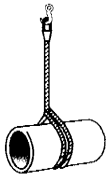
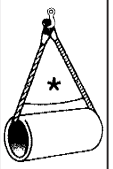
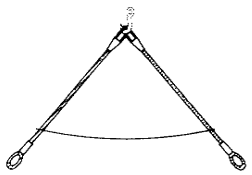
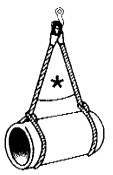
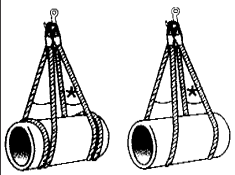
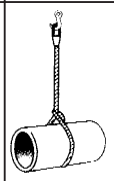
Working load limit (WLL) of wire rope slings assemblies

The data supplied applies to hand and mechanically spliced slings in the more popular rope diameters and configurations.			1 Leg - 1 Part		1 Leg - 1 Part		2 Legs - 1 Part each					2 Legs - 2 Parts each	Endless	Max permitted angle 90°
														
MINIMUM PERMITTED FACTOR OF SAFETY			6:1	6:1	6:1	6:1	6:1	6:1	6:1	6:1	6:1	6.1	8:1	
ROPE CONSTRUCTION	Rope Diameter	Est. Breaking Force	Vertical Lift	Choker Hitch	Halshing Sling	Cradle Sling	30°	60°	90°	120°	Reeving Sling	Double Cradle Wrap Sling	Endless with Bight	Rope Diameter
	mm	kN	t	t	t	t	t	t	t	t	t	t	t	mm
6 x 19 (9/9/1)F 1800 MPa RH Ordinary lay	10	59	1.00	0.75	1.50	1.41	1.93	1.73	1.41	1.00	1.06	2.84	1.13	10
	13	101.8	1.73	1.30	2.59	2.44	3.34	2.99	2.44	1.73	1.83	4.89	1.95	13
6 x 36 (14/7 + 7/7/1)F 1800 MPa RH Ordinary Lay	13	102.5	1.74	1.31	2.61	2.46	3.36	3.01	2.46	1.74	1.85	4.93	1.96	13
	16	156.3	2.66	1.99	3.98	3.74	5.13	4.59	3.74	2.66	2.81	7.51	2.99	16
	19	221.4	3.76	2.82	5.64	5.30	7.26	6.51	5.30	3.76	3.99	10.64	4.23	19
	20	242.2	4.12	3.09	6.18	5.81	7.95	7.12	5.81	4.12	4.37	11.65	4.63	20
	22	297	5.05	3.78	7.57	7.11	9.74	8.73	7.11	5.05	5.35	14.28	5.68	22
	24	342.2	5.81	4.36	8.72	8.20	11.22	10.06	8.20	5.81	6.16	16.45	6.54	24
	26	405.8	6.89	5.17	10.34	9.72	13.31	11.93	9.72	6.89	7.31	19.51	7.76	26
	28	479.7	8.15	6.11	12.22	11.49	15.73	14.10	11.49	8.15	8.64	23.06	9.17	28
	32	627.2	10.66	7.99	15.98	15.02	20.57	18.43	15.02	10.66	11.30	30.16	11.99	32
6 x 36 (14/7 + 7/7/1)WRC 1800 MPa RH Ordinary Lay	13	113.5	1.93	1.45	2.89	2.72	3.72	3.34	2.72	1.93	2.04	5.46	2.17	13
	16	172.4	2.93	2.20	4.39	4.13	5.65	5.07	4.13	2.93	3.10	8.29	3.30	16
	18	217.3	3.69	2.77	5.54	5.21	7.13	6.39	5.21	3.69	3.91	10.45	4.15	18
	19	243.7	4.14	3.11	6.21	5.84	7.99	7.16	5.84	4.14	4.39	11.72	4.66	19
	20	268.8	4.57	3.43	6.85	6.44	8.81	7.90	6.44	4.57	4.84	12.92	5.14	20
	22	326.8	5.55	4.16	8.33	7.83	10.72	9.61	7.83	5.55	5.89	15.71	6.25	22
	24	393.2	6.68	5.01	10.02	9.42	12.89	11.56	9.42	6.68	7.08	18.91	7.52	24
	26	449.4	7.64	5.73	11.45	10.77	14.74	13.21	10.77	7.64	8.09	21.61	8.59	26
	28	529	8.99	6.74	13.48	12.67	17.35	15.55	12.67	8.99	9.53	25.43	10.11	28
	32	691.6	11.76	8.82	17.64	16.58	22.70	20.35	16.58	11.76	12.47	33.29	13.22	32
Load factor of sling Ass. (Effect of Sling Configuration			1.00	0.75	1.50	1.41	1.93	1.73	1.41	1.00	1.06	2.83	1.50	

Wire rope sling capacity chart