
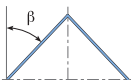





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Table 3 - Working load limits for slings using fibre cored rope of classes 6 x 19 and 6 x 36 in grade 1770 and having ferrule-secured eye terminations.

Angle to the vertical	One Leg Slung	Two Leg Slung		Three and Four Leg Slung		Endless Slung
	0°	0° - 45°	>45° - 60°	0° - 45°	>45° - 60°	0°
						
Nominal Rope dia mm	Direct	Direct	Direct	Direct	Direct	Choke Hitch
	t	t	t	t	t	Working Load Limits (WLL) t
8	0.70	0.95	0.70	1.50	1.05	1.10
9	0.85	1.20	0.85	1.80	1.30	1.40
10	1.05	1.50	1.05	2.25	1.60	1.70
11	1.30	1.80	1.30	2.70	1.95	2.12
12	1.55	2.12	1.55	3.30	2.30	2.50
13	1.80	2.50	1.80	3.85	2.70	2.90
14	2.12	3.00	2.12	4.35	3.15	3.30
16	2.70	3.85	2.70	5.65	4.20	4.35
18	3.40	4.80	3.40	7.20	5.20	5.65
20	4.35	6.00	4.35	9.00	6.50	6.90
22	5.20	7.20	5.20	11.0	7.80	8.40
24	6.30	8.80	6.30	13.5	9.40	10.0
26	7.20	10.0	7.20	15.0	11.0	11.8
28	8.40	11.8	8.40	18.0	12.5	13.5
32	11.0	15.0	11.0	23.5	16.5	18.0
36	14.0	19.0	14.0	29.0	21.0	22.5
40	17.0	23.5	17.0	36.0	26.0	28.0
44	21.0	29.0	21.0	44.0	31.5	33.5
48	25.0	35.0	25.0	52.0	37.0	40.0
52	29.0	40.0	29.0	62.0	44.0	47.0
56	33.5	47.0	33.5	71.0	50.0	54.0
60	39.0	54.0	39.0	81.0	58.0	63.0
Leg Factor $K_L$	1	1.4	1	2.1	1.5	1.6


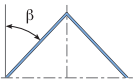



**NOTE:** The working load limits (WLLs) given in Table 3 are based on the assumption that soft eyes of single-leg slings are used over bearing points having diameters not less than twice the nominal diameter of the rope.

Table 3 shows working load limit values for ferrule-secured eye slings in various configurations.

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## BS EN 13414-1:2003 (E)

Table 4 - Working load limits for slings using steel cored rope of classes 6 x 19, 6 x 36 and 8 x 36 in grade 1770 and having ferrule-secured eye terminations.

Angle to the vertical	One Leg Sling	Two Leg Sling		Three and Four Leg Sling		Endless Sling
	0°	0° - 45°	>45° - 60°	0° - 45°	>45° - 60°	0°
						
Nominal Rope dia mm	Direct	Direct	Direct	Direct	Direct	Choke Hitch
	t	t	t	t	Working Load Limits (WLL) t	
8	0.75	1.05	0.75	1.55	1.10	1.20
9	0.950	1.30	0.95	2.00	1.40	1.50
10	1.15	1.60	1.15	2.40	1.70	1.35
11	1.40	2.00	1.40	3.00	2.12	2.25
12	1.70	2.30	1.70	3.55	2.50	2.70
13	2.00	2.80	2.00	4.15	3.00	3.15
14	2.25	3.15	2.25	4.80	3.40	3.70
16	3.00	4.20	3.00	6.30	4.50	4.80
18	3.70	5.20	3.70	7.80	5.65	6.00
20	4.60	6.50	4.60	9.80	6.90	7.35
22	5.65	7.80	5.65	11.8	8.40	9.00
24	6.70	9.40	6.70	14.0	10.0	10.6
26	7.80	11.0	7.80	16.5	11.5	12.5
28	9.00	12.5	9.00	19.0	13.5	14.5
32	11.8	16.5	11.8	25.0	17.5	19.0
36	15.0	21.0	15.0	31.5	22.5	23.5
40	18.5	26.0	18.5	39.0	28.0	30.0
44	22.5	31.5	22.5	47.0	33.5	36.0
48	26.0	37.0	26.0	55.0	40.0	42.0
52	31.5	44.0	31.5	66.0	47.0	50.0
56	36.0	50.0	36.0	76.0	54.0	58.0
60	42.0	58.0	42.0	88.0	63.0	67.0
<b>Leg Factor</b> K <sub>L</sub>	1	1.4	1	2.1	1.5	1.6



**NOTE:** The working load limits (WLLs) given in Table 4 are based on the assumption that soft eyes of single-leg slings are used over bearing points having diameters not less than twice the nominal diameter of the rope.

Table 4 shows working load limit values for ferrule-secured eye slings in various configurations.

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Table G.1 - Working load limits for cable-laid endless slings (grommets) made of wire ropes with steel core of classes 6 x 19 and 6 x 36.

		Endless Sling (Grommet)	
Angle to the vertical	o°		o°
	Direct	Choke Hitch	
			
Nominal Rope Diameter mm	Working Load Limits (WLL)		
	t	t	
24	9.00	7.00	
27	11.5	9.00	
30	14.0	11.0	
33	17.0	13.5	
36	20.0	16.0	
39	23.5	19.0	
42	27.0	21.5	
48	35.5	28.5	
54	45.0	36.0	
60	55.5	44.5	
<b>Calculation Factors</b>	2	1.6	

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Table G.2 - Working load limits for cable-laid endless slings (grommets) made of wire ropes with steel core of classes 6 x 36.

Endless Sling (Grommet)		
Angle to the vertical	$0^\circ$	$0^\circ$
	Direct	Choke Hitch



Nominal Rope Diameter mm	Working Load Limits (WLL)	
	t	t
66	69.0	55.0
72	84.0	68.0
78	102	81.0
84	121	97.0
90	144	115
96	168	135
102	196	157
108	227	182
114	262	210
120	300	240
126	344	275
132	392	314
144	505	404
Calculation Factors	2	1.6

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Table G.3 - Working load limits for cable-laid endless slings (grommets) made of wire ropes with steel core of classes 6 x 36.

Endless Sling (Grommet)		
Angle to the vertical	0°	0°
	Direct	Choke Hitch



Nominal Rope Diameter mm	Working Load Limits (WLL)	
	t	t
156	700	-
162	750	-
168	800	-
174	850	-
180	900	-
192	1000	-
216	1250	-
240	1500	-
258	1750	-
282	2000	-
300	2250	-
318	2500	-
354	3000	-
384	3500	-
414	4000	-
444	4500	-
474	5000	-
504	5500	-
528	6000	-
552	6500	-
576	7000	-
600	7500	-
624	8000	-
648	8500	-
672	9000	-
696	9500	-
Calculation Factors	2	1.6

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### BS EN 13414-3:2003 (E)

Table G.4 - Working load limits for cable-laid endless slings (grommets) made of wire ropes with FIBRE core of classes 6 x 19 and 6 x 36.

Endless Sling (Grommet)		
Angle to the vertical	$0^\circ$	$0^\circ$
	Direct	Choke Hitch


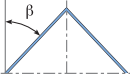





Nominal Rope Diameter mm	Working Load Limits (WLL)	
	t	t
24	8.25	6.50
27	10.5	8.5
30	11.5	9.00
33	14.0	11.0
36	16.5	13.0
39	19.5	15.5
42	22.5	18.0
48	30.0	23.5
54	37.5	30.0
60	46.0	37.0
Calculation Factors	2	1.6

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## BS EN 13414-1:2003 (E)

Table G.5 - Working load limits for cable-laid slings made of wire ropes with steel core of classes 6 x 19 and 6 x 36 with ferrule-secured eye terminations.



Angle to the vertical	One Leg Slung	Two Leg Slung		Three and Four Leg Slung		Endless Slung
	0°	0° up to 45°	0°	0° up to 45°	0°	0°
						
Nominal Rope dia mm	Direct	Direct	Direct	Direct	Direct	Choke Hitch
	t	t	t	t	Working Load Limits (WLL) t	
24	3.75	5.25	3.75	8.00	5.50	6.00
27	4.75	6.65	4.75	10.0	7.00	7.50
30	6.50	9.00	6.50	13.0	9.50	10.0
33	7.50	10.5	7.50	16.0	11.5	12.0
36	9.00	12.5	9.00	19.0	13.5	14.5
39	10.5	15.0	10.5	22.5	16.0	17.0
42	12.5	17.5	12.5	25.0	18.5	20.0
48	16.0	22.5	16.0	34.0	24.0	26.0
54	20.5	28.5	20.5	43.0	30.5	32.5
60	25.0	35.5	25.0	53.0	38.0	40.0
Calculation Factors	1	1.4	1	2.1	1.5	1.6

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Table G.6 - Working load limits for cable-laid slings made of wire ropes with steel core of classes 6 x 19 and 6 x 36 with spliced eye terminations.



One Leg Sling		
Angle to the vertical	0°	
	Direct	Choke Hitch
		
Nominal Rope Diameter mm	Working Load Limits (WLL)	
	t	t
24	3.35	2.65
27	4.25	3.50
30	5.50	4.50
33	7.00	5.50
36	8.00	6.50
39	9.25	7.50
42	11.0	9.00
48	14.5	11.5
54	18.0	14.5
60	22.5	18.0
Calculation Factors	1	0.8

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Table G.7 - Working load limits for cable-laid slings made of wire ropes with steel core of classes 6 x 36 with spliced eye terminations.



Angle to the vertical	One Leg Sling	
	0°	0°
	Direct	Choke Hitch
		
Nominal Rope Diameter mm	Working Load Limits (WLL)	
	t	t
66	28.0	22.0
72	34.0	27.0
78	41.0	33.0
84	49.0	39.0
90	58.0	47.0
96	68.0	55.0
102	79.0	64.0
108	92.0	74.0
114	106	85.0
120	122	97.0
126	139	111
132	158	127
144	204	163
Calculation Factors	1	0.8

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Table G.8a - Working load limits for cable-laid slings made of wire ropes with steel core of classes 6 x 36 with spliced eye terminations.

One Leg Sling			
Angle to the vertical	0°		0°
	Direct	Choke Hitch	
			
Nominal Rope Diameter mm	Working Load Limits (WLL)		
	t	t	
150	230	185	
156	250	200	
162	270	220	
168	290	235	
174	315	250	
180	335	270	
192	410	330	
204	460	365	
216	510	405	
228	555	445	
240	610	490	
252	665	530	
264	720	580	
276	780	625	
288	840	675	
Calculation Factors	1	0.8	

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Table G.8b - Working load limits for cable-laid slings made of wire ropes with steel core of classes 6 x 36 with spliced eye terminations.

One Leg Sling		
Angle to the vertical	0°	0°
	Direct	Choke Hitch
		
Nominal Rope Diameter mm	Working Load Limits (WLL)	
	t	t
300	900	725
312	970	775
336	1100	885
360	1250	1000
384	1400	1100
408	1550	1250
432	1700	1400
456	1880	1500
480	2050	1650
504	2250	1800
528	2450	1950
552	2600	2100
576	2800	2250
600	3000	2400
624	3200	2550
648	3400	2750
672	3650	2900
696	3850	3100
Calculation Factors	1	0.8

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