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# WIRE ROPE SLINGS

**WIRE ROPE SLINGS LOAD CHART**

MANUFACTURED TO AS 1666 SAFETY FACTOR OF 5



METHOD OF LOADING	DIRECT LOADED	CHOKE HITCH		BASKET HITCH				DIRECT LOADED	CHOKE HITCH									
		ROUND LOAD	RECTANGLE LOAD	ROUND LOAD		OTHER THAN ROUND LOAD			ROUND LOAD	OTHER THAN ROUND LOAD	ROUND LOAD	OTHER THAN ROUND LOAD						
ROPE																		
NOM. DIA. mm	MIN. BREAKING FORCE kN																	
INCLUDED ANGLE				0°	60°	90°	120°	0°	60°	90°	120°	0-60°	90°	120°	0-45°	0-60°	0-45°	0-60°

**SAFE WORKING LOADS IN TONNES**

SAFE WORKING LOADS UNDER GENERAL USE WITH 1570 GRADE WIRE AND FIBRE CORE WITH FERRULE-SECURED EYES

8	28.2	0.55	0.41	0.27	1.09	0.94	0.77	0.55	0.55	0.48	0.39	0.27	0.94	0.77	0.55	0.71	0.48	0.48
9	35.6	0.69	0.52	0.34	1.38	1.19	0.97	0.69	0.69	0.60	0.49	0.34	1.19	0.97	0.69	0.90	0.60	0.60
10	44.0	0.85	0.64	0.43	1.70	1.47	1.20	0.85	0.85	0.74	0.61	0.43	1.47	1.20	0.85	1.11	1.11	0.74
11	53.2	1.03	0.77	0.52	2.1	1.78	1.45	1.03	1.03	0.90	0.73	0.52	1.78	1.45	1.03	1.34	1.34	0.90
12	63.3	1.23	0.92	0.61	2.5	2.1	1.73	1.23	1.23	1.07	0.87	0.61	2.1	1.73	1.23	1.59	1.59	1.07
13	74.3	1.44	1.08	0.72	2.9	2.5	2.0	1.44	1.44	1.25	1.02	0.72	2.5	2.0	1.44	1.87	1.87	1.25
14	86.2	1.67	1.25	0.83	3.3	2.9	2.4	1.67	1.67	1.67	1.19	0.83	2.9	2.4	1.67	2.2	2.2	1.45
16	113	2.2	1.64	1.09	4.4	3.8	3.1	2.2	2.2	1.90	1.55	1.09	3.8	3.1	2.2	2.8	2.8	1.90
18	143	2.8	2.1	1.38	5.5	4.8	3.9	2.8	2.8	2.4	1.97	1.38	4.8	3.9	2.8	3.6	3.6	2.4
20	176	3.4	2.6	1.70	6.8	5.9	4.8	3.4	3.4	3.0	2.4	1.70	5.9	4.8	3.4	4.4	4.4	3.0
22	213	4.1	3.1	2.1	8.3	7.1	5.8	4.1	4.1	3.6	2.9	2.1	7.1	5.8	4.1	5.4	5.4	3.6
24	253	4.9	3.7	2.5	9.8	8.5	6.9	4.9	4.9	4.3	3.5	2.5	8.5	6.9	4.9	6.4	6.4	4.3
26	297	5.8	4.3	2.9	11.5	10.0	8.1	5.8	5.8	5.0	4.1	2.9	10.0	8.1	5.8	7.5	7.5	5.0
28	345	6.7	5.0	3.3	13.4	11.6	9.4	6.7	6.7	5.8	4.7	3.3	11.6	9.4	6.7	8.7	8.7	5.8
32	450	8.7	6.5	4.4	17.4	15.1	12.3	8.7	8.7	7.6	6.2	4.4	15.1	12.3	8.7	11.3	11.3	7.6

SAFE WORKING LOADS UNDER GENERAL USE WITH 1770 GRADE WIRE AND WIRE-ROPE CORE WITH FERRULE-SECURED EYES

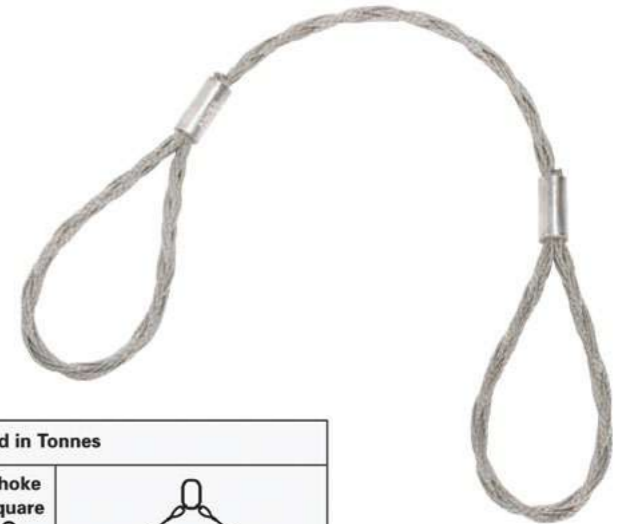
8	40.2	0.78	0.58	0.39	1.56	1.35	1.10	0.78	0.78	0.68	0.55	0.39	1.35	1.10	0.78	1.01	1.01	1.68
9	51.1	0.99	0.74	0.49	1.98	1.71	1.40	0.99	0.99	0.86	0.70	0.49	1.71	1.40	0.99	1.29	1.29	0.86
10	63.1	1.22	0.92	0.61	2.4	2.1	1.72	1.22	1.22	1.06	0.87	0.61	2.1	1.72	1.22	1.59	1.59	1.06
11	76.3	1.48	1.11	0.74	3.0	2.6	2.1	1.48	1.48	1.29	1.05	0.74	2.6	2.1	1.48	1.92	1.92	1.29
12	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	2.3	1.53
13	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	2.7	1.80
14	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	3.1	2.1
16	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	4.1	2.7
18	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	5.1	3.4
20	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	6.3	4.2
22	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	7.7	5.1
24	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	9.1	6.1
26	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	10.7	7.2
28	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	12.4	8.3
32	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	16.3	10.9
36	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	21	13.8
40	1010	19.6	14.7	9.8	39	34	28	19.6	19.6	17.0	13.9	9.8	34	28	19.6	25	25	17.0
44	1220	24	17.7	11.8	47	41	33	24	24	21	16.8	11.8	41	33	24	31	31	21
48	1450	28	21	14.0	56	49	40	28	28	24	19.9	14.0	49	40	28	37	37	24
52	1710	33	25	16.6	60	57	47	33	33	29	24	16.6	57	47	33	43	43	29
56	1980	38	29	19.2	77	66	54	38	38	33	27	19.2	66	54	38	50	50	33
60	2270	44	33	22	88	76	62	44	44	38	31	22	76	62	44	57	57	38

**SUPERFLEX WIRE SLINGS**

Superflex is a plaited galvanised wire rope comprising of 12 plys of high tensile (2070 MPa) steel cable in a 4 x 3 sinnet configuration.

The plaited wire rope design offers exceptional rotation resistance characteristics. It is extremely flexible and very light and easy to handle.

Superflex is extremely tolerant to abuse and has less tendency to link and runs easily over capstan and sheaves.



**Eye to Eye Wire Slings**

Cable Size	Rope dia. mm	Eye Size mm	Minimum Breaking Force kN	Safe Working Load in Tonnes							
				Sling	Hitch	Choke Round	Choke Square	Diagram			
									60°	90°	120°
2-0	8	150	30	0.5	1.0	0.4	0.3	0.9	0.7	0.5	
2-5	10	180	47	0.9	1.8	0.7	0.5	1.6	1.3	0.9	
3-0	12	220	70	1.3	2.6	1.0	0.7	2.3	1.8	1.3	
3-5	14	250	93	1.8	3.6	1.4	0.9	3.1	2.5	1.8	
4-0	16	290	125	2.4	4.8	1.8	1.2	4.2	3.4	2.4	
4-5	18	320	157	3.0	6.0	2.3	1.5	5.2	4.2	3.0	
5-0	20	360	210	4.0	8.0	3.0	2.0	6.9	5.6	4.0	
6-5	26	470	335	6.4	12.8	4.8	3.2	11.1	9.0	6.4	
8-0	34	600	500	9.5	19.0	7.5	4.8	16.4	13.3	9.5	
10-0	44	800	750	14.7	29.4	11.0	7.4	30.6	20.6	14.7	

**Endless Wire Slings**

Cable Size	Rope dia. mm	Minimum Breaking Force kN	Safe Working Load in Tonnes			
			Single Strop	Strop as Cradle	Choke Round	Choke Square
2-0	8	30	0.8	1.5	0.6	0.4
2-5	10	47	1.4	2.7	1.0	0.7
3-0	12	70	2.0	3.9	1.5	1.0
3-5	14	93	2.7	5.4	2.0	1.4
4-0	16	125	3.6	7.2	2.7	1.8
4-5	18	157	4.5	9.0	3.4	2.3
5-0	20	210	6.0	12.0	4.5	3.0
6-5	26	335	9.6	19.2	7.2	4.0
8-0	34	500	14.3	28.5	10.7	7.2
10-0	44	750	22.0	44.1	16.6	11.0

For specialised applications or ropes, please contact our technical sale department

Australian Standard AS 1666-1



ALUMINIUM FURRULES



High quality aluminium ferrules made to DIN standard, used mainly for swaging wire rope to form an eye for slings, winch cables, etc.

- Sizes available are from 1.5mm - 54mm
- Aluminium hydraulic machine press type

Note: Ferrule sizes differ for FC and IWRC wire rope during swaging. Confirm details when ordering

COMPLIES WITH DIN 3039

PRODUCT CODE	DIN CODE	NET WEIGHT per 1000pcs (kg)	DIMENSIONS mm			
			A	B	S	L
FEA02	2	0.375	2.2	4.4	0.85	7
FEA025	2.5	0.499	2.7	5.9	1.05	9
FEA03	3	0.843	3.3	6.6	1.25	11
FEA035	3.5	1.32	3.8	7.6	1.5	13
FEA04	4	1.81	4.4	8.8	1.7	14
FEA045	4.5	2.61	4.9	9.8	1.9	16
FEA05	5	3.57	5.5	11	2.1	18
FEA06	6	5.86	6.6	13.2	2.5	21
FEA065	6.5	7.55	7.2	14.4	2.7	23
FEA08	8	13.7	8.8	17.6	3.3	28
FEA09	9	19.8	9.9	19.8	3.7	32
FEA10	10	26.4	10.9	21.8	4.1	35
FEA11	11	35.8	12.1	24.2	4.5	39
FEA12	12	45.8	13.2	26.4	4.9	42
FEA13	13	59.7	14.2	28.4	5.4	46
FEA14	14	73.5	15.3	30.6	5.8	49
FEA16	16	111	17.5	35	6.7	56
FEA18	18	156	19.6	39.2	7.6	63
FEA20	20	217	21.7	43.4	8.4	70
FEA22	22	292	24.3	48.6	9.2	77
FEA24	24	376	26.4	52.8	10	84
FEA26	26	481	28.5	57	10.9	91
FEA28	28	603	31	62	11.7	98
FEA30	30	739	33.1	66.2	12.5	105
FEA32	32	897	35.2	70.4	13.4	112
FEA34	34	1077	37.8	75.6	14.2	119
FEA36	36	1275	39.8	79.6	15	126
FEA38	38	1503	41.9	83.8	15.8	133
FEA40	40	1734	44	88	16.6	140
FEA42	42	2024	46.2	92.4	17.5	147
FEA44	44	2314	48.4	96.8	18.3	154
FEA46	46	2662	50.6	101.2	19.2	161
FEA48	48	3010	52.8	105.6	20	168
FEA52	52	3813	57.2	114	21.6	182
FEA54	54	4293	59.4	118	22.5	189

STEELFLEX WIRE ENDLESS SLINGS

The steel sling with the fabric feel

Designed for suspension applications where metal or synthetic slings are required

BENEFITS

- Increased safety
- Improved cut resistance
- 400°F temperature rating (205°C)
- Higher working load compared to Round and Superflex slings
- No hand injuries as there are no external ferrules and tails
- Contours to the load to grip securely
- Wire core inspection window

SAVES TIME

- No back-up rigging required
- Superior flexibility make rigging easy
- Easy to read safety tag allows instant recognition

SAVES MONEY

- Lowers show to show freight costs
- Gives you the slings you want to use (round slings) without buying the slings you would be required to use. (Wire/Chain)



Code	W.LL	Length
WRGAC09	2.4T	0.9m
WRGAC18	2.4T	1.8m
WRGAC27	2.4T	2.7m

HYDRAULIC SWAGING MACHINES



WIROP Hydraulic Swaging Machines are very reliable and also offer very quiet operation, making work less stressful. The newly developed logic hydraulic system makes WIROP swagers more durable and require less maintenance.

The PLC electric control system is very user friendly to operate with a special design for C-type structure (one column body) which allows fast access for more efficient swaging.

All of the bodies are made of one piece casting alloy steel. Equipped with Automatic /Manual selection, force setting device adjustable stroke and a foot level switch.

Wiroper also manufactures a wide range of Horizontal Tension Testing Benches.

