

Lifting & Tensioning



Lifting and Tensioning

Table of Contents

Product	Page
NGK PAT Wire Chain Lever Hoist	<u>3</u>
PAT NGK 1000v Insulated Webbing Pullift	<u>3</u>
William Hackett Chain Lever Hoist	<u>4</u>
Yale PT Chain Lever Hoists	<u>4</u>
Elephant Chain Level Hoists	<u>5</u>
NGK Chain Lever Hoist	<u>5</u>
Yale Ergo 360	<u>6</u>
KITO Chain Lever Hoist	<u>6</u>
Tirfor	<u>7</u>
NKG Dynamometer	<u>7</u>
Dillon Large Face Dynamometer	<u>7</u>
Klein Grip for Bare ACSR, Aluminum and Stranded-Copper Cables	<u>8</u>
Klein Hot Line Chicago Grips for Bare Conductors	<u>8</u>
Chicago® Grip - for Large Diameter Conductors	<u>8</u>
Stay Wire Grips	<u>9</u>
Grips for Aluminium and A.C.S.R wires	<u>9</u>
ABC Conductor Grips	<u>9</u>
Range Taking ABC Grips	<u>10</u>
Dee Bow and Piling Shackles	<u>10</u>
Endless Round Slings	<u>11</u>
Webbing Slings	<u>11</u>
Ratchet Straps / Load Binders	<u>11</u>
Ansel Jones Type Steel Snatch Blocks	<u>12</u>
Barton Side Opening Block	<u>12</u>
Hastings Nylon Snatch Block	<u>12</u>
Hexa Ratchet Light Weight Hand Line Block	<u>13</u>
snatchet block	<u>13</u>
Sash Lines	<u>14</u>
Polypropylene Rope	<u>14</u>
Staple Spun Rope	<u>14</u>
Pengo Stay Dog / Anchor Pulling Eye	<u>15</u>
Swivels	<u>15</u>
Medium to Heavy Duty Cable Socks	<u>15</u>
Wire Slings	<u>16</u>
Chain Slings	<u>16</u>
McKissick Steel Snatch Block	<u>16</u>
Heavy Duty Cable Pulling Socks	<u>17</u>
Non Conductive Cable Socks for ABC	<u>17</u>

Lifting and Tensioning

NGK PAT Wire Chain Lever Hoist

Conductor/cable tensioning applications

- Forward/reverse load holding mechanism
- Heavy duty - Quality ratchet mechanism
- 360° Handle movement
- Fast advance mechanism
- Supplied with Test Certificate

Part No	WLL Kg	Length	Weight
WP1000	1000	1.2m	3.2kg
WP1500	1500	1.4m	4.2kg



PAT NGK 1000v Insulated Webbing

Designed for conductor/cable tension applications

- Forward/reverse load holding mechanism
- Non conductive parts for increased operator safety
- Heavy duty - Quality ratchet mechanism
- 360° Handle movement
- Fast advance mechanism
- Supplied with Test Certificate 1000v Rated



Part No	WLL Kg	Webbing Length	Weight
N1000	1000	1.9m	3.3kg
N1500	1500	1.95m	4.6kg

Lifting and Tensioning

William Hackett Chain Lever Hoist

The Hackett WH-L5 lever hoist meets and exceeds the requirements of international standards BS EN13157:2004.

Part Code	Capacity (tonnes)	Capacity Falls	Load Chain (mm)	Standard Lift (M)	Mass (Kg)	Extra Weight per M (Kg)
034.080	0.8	1	5.6 x 15.7	1.5	6.1	0.7
034.160	1.6	1	7.1 x 19.9	1.5	8.5	1.1
034.320	3.2	1	10 x 28	1.5	14.2	2.2
034.630	6.3	2	10 x 28	1.5	26.6	4.4
034.1000	10.0*	3	10 x 28	1.5	46.5	6.6



Yale PT Chain Lever Hoists

The PT pressed steel ratchet lever hoist is probably the most universal lever hoist in the Yale range.

It's extremely low weight is provided by the pressed steel housing

Other Chain Lengths available

Part No	WLL Kg	Chain Length	Weight
PT800	800	1.5m	5.5kg
PT1600	1600	1.5m	9.6kg
PT3200	3200	1,5m	16kg

Lifting and Tensioning

Elephant Chain Level Hoists

YII Series lever hoists are extremely versatile, suitable for lifting and pulling in many applications.

A solid and compact design with special rust-resistant coating

Extremely lightweight [9.5kg (1.6 Tonne)]

The gears are completely enclosed and make the hoist highly reliable and durable meaning lower maintenance costs.

One-touch change lever further improves work efficiency.

Part No	WLL Kg	Chain Length	Weight
YII-50	500	1.5m	3.6kg
YII-80	800	1.5m	6.2kg
YII-160	1600	1,5m	9.5kg
YII-320	3200	1.5m	15.5kg



NGK Chain Lever Hoist

Compact and lightweight for tensioning

- Notch at a time automatic break
- Alloy Steel Chain
- Standard Chain Length 1.3m

Other chain lengths available 1.8m , 2.2m & 2.5m



Lifting and Tensioning

Yale Ergo 360



Model	Capacity (kg)	Number Of Chain Falls	Lift With One Lever Turn (mm)	Handle Pull @ WLL (daN)	Weight @ STD. Lift (kg)
ERGO-750	750	1	27.2	20	6.6
ERGO-1500	1500	1	21.7	26	9.5
ERGO-3000	3000	1	20.1	40	16.8

KITO Chain Lever Hoist

KITO Lever Hoist Model LB stands out with its high performance and can handle even the most difficult challenges facing the industry.

Model	Capacity (kg)	Std. lift (m)	Chain pull to lift full load (daN)	Net weight (kg)
LB008	800	1,5	28,4	5,7
LB010	1000	1,5	34,3	5,9
LB016	1600	1,5	33,3	8,0
LB025	2500	1,5	36,3	11,2
LB032	3200	1,5	36,3	15,0



Lifting and Tensioning

Tirfor

Tirfor® machines are portable manual hoists used with maxiflex wire rope. They can be used to lift, pull and position loads over great distances depending on the wire rope length.

Supplied with a standard 20m wire rope

Part No	WLL	M/C Weight	Rope Weight	Rope Dia	Rope Breaking Strain
TI8	800kg	6.6kg	6.1kg	8.3mm	4500kg
TI16	1600kg	13kg	13.1kg	11.5mm	9000kg
TI32	3200kg	24kg	26.6kg	16.3mm	1800kg



NKG Dynamometer

Compact, lightweight, rugged construction - designed for line work.

- Graduated in kN.
- Accuracy $\pm 3\%$ full scales.
- Both pulling eyes rotate 360°.
- Each tool is serial numbered and supplied in a heavy duty fabric case with calibration certificate



Dillon Large Face Dynamometer

Designed to measure the tension on conductor wires

- Simple operation
- Low cost
- Market leader
- Overhead Safety Qualified
- 5" (130 mm) and 10" (255 mm) Dial Size available
- $\pm 0.5\%$ Full Scale Accuracy
- 500 kg to 20,000 kg capacities (Lbs, Kg and Newtons available)



Lifting and Tensioning

Klein Grip for Bare ACSR, Aluminum and Stranded-Copper Cables

Part No	Conductor Size	WWL	Weight
1656-20	5.08 to 10.16mm	900kg	1.36kg
1656-30	7.78 to 13.47mm	900kg	1.7kg
1656-40	13.46 to 18.80mm	1600kg	3.4kg
1656-50	18.80 to 21.4mm	1600kg	3.4kg
1656-60	21.84 to 24.38mm	1600kg	3.4kg



Klein Hot Line Chicago Grips for Bare Conductors

Hot Line Grips for placing on the conductor hot stick
When stick is removed, latch closes automatically to guard against grip accidentally disengaging



Part No	Conductor Dia	WWL	Weight
1613-40H	3.05 to 9.4mm	900kg	1.48
1684-5H	5.54 to 13.97mm	1600kg	2.84
1656-20H	5.08 to 10.16mm	900kg	1.48
1656-30H	7.87 to 13.46mm	900kg	1.82
1656-40H	13.46 to 18.80	1600kg	3.52
1656-50H	18.80 to 21.84	1600kg	3.52

Chicago® Grip - for Large Diameter

Designed for hollow conductors and other large-diameter cables.

Round jaws are shaped to provide maximum contact with the cable, virtually eliminating conductor damage.

These grips are special order only. .

Orders must specify exact outside diameter of cables

Each grip is made for one-size cable only.



Lifting and Tensioning

Stay Wire Grips

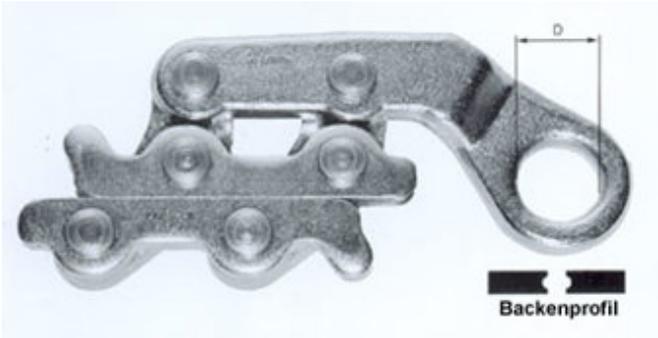
Spring Loaded Wire Grips with Steel Serrated Jaws for Tensioning Stay Wire and Copper Stranded Conductors

Part No	Range mm	WLL	Weight
12504	1 - 5	500kg	0.25kg
12511	3 - 9	1000kg	0.85kg
12528	4 - 12	1700kg	1.20kg
12535	6 - 18	3000kg	1.85kg
12542	10 - 28	3500kg	3.80kg
12559	20 - 40	4000kg	6.20kg



Grips for Aluminium and A.C.S.R wires

Grips for Aluminium and A.C.S.R wires spring loaded with galvanized jaws



Part No	Conductor Dia	WLL	Weight
12801	5.4 - 8.5mm	1000	0.8kg
12818	5 - 12mm	1700	1.5kg
12825	8 - 18mm	3000	1.8kg
12856	15 - 28mm	3500	3.6kg
12863	20 - 40mm	4000	6.2kg

ABC Conductor Grips

Steel Construction with fine grooved aluminium

Part No	Conductor Size	WWL	Weight
LE21	2 x 35 to 4 x 50mm	600kg	2.3kg
LE22	4 x 95	800kg	4.7kg
LE23	4 x 120	1000kg	7.95kg



Lifting and Tensioning

Range Taking ABC Grips

Lightweight Range taking ABC Grips European manufactured conformity certificate supplied

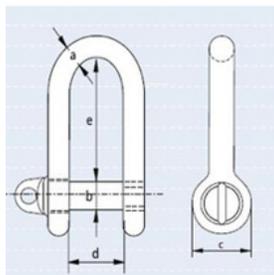


Part No	Conductor Range	WLL	Weight
RTABC1	4 x 16/35	500kg	1.0kg
RTABC2	4 x 35/70	1200kg	2.1kg
RTABC3	4 x 95/150	1800kg	3.1kg

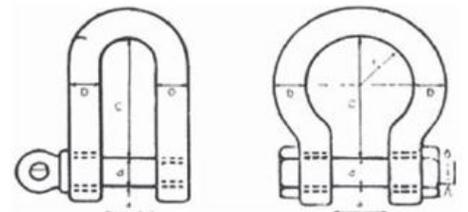
Dee Bow and Piling Shackles



working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length inside	length bolt	width	weight each
tons	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
0.33	5	6	12.5	5	9.5	22	16	41	31	28	0.02
0.5	7	8	17	7	12	29	20	54	40	37	0.05
0.75	9	10	21	9	13.5	32	22	61	49	42	0.1
1	10	11	23	10	17	36.5	26	71	56	49	0.14
1.5	11	13	26	11	19	43	29	80	68	54	0.19
2	13.5	16	34	13.5	22	51	32	91	76	63	0.36
3.25	16	19	40	16	27	64	43	114	93	79	0.63
4.75	19	22	47	19	31	76	51	136	107	94	1.01
6.5	22	25	53	22	36	83	58	157	123	107	1.5
8.5	25	28	60	25	43	95	68	176	141	124	2.21
9.5	28	32	67	28	47	108	75	197	158	137	3.16
12	32	35	74	32	51	115	83	218	176	154	4.31
13.5	35	38	80	35	57	133	92	240	192	170	5.55
17	38	42	89	38	60	146	99	262	208	183	7.43
25	45	50	104	45	74	178	126	314	250	226	12.84
35	50	57	111	50	83	197	138	358	281	250	18.15
42.5	57	65	134	57	95	222	160	414	321	287	26.29
55	65	70	145	65	105	260	180	463	355	329	37.6



working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight each
tons	a mm	b mm	c mm	d mm	e mm	kg
1.00	13	16	32	22	152	0.55
1.50	16	19	38	32	203	0.95
2.00	19	22	45	38	203	1.64
3.00	22	25	50	45	254	2.29
3.75	25	28	57	50	254	3.40
5.00	28	32	64	54	305	5.05

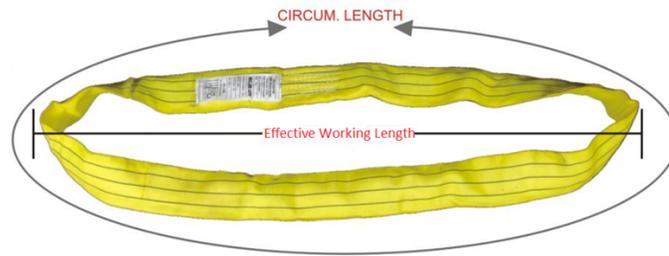


Lifting and Tensioning

Endless Round Slings

Polyester Endless Round Slings Safety Factor 7:1
(Straight Lift)

Colour								
SWL	1 tonne	2 Tonne	3 Tonne	4 Tonne	5 Tonne	6 Tonne	8 Tonne	10 Tonne
	EWL							
	0.50	0.50	0.50					
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00



Webbing Slings



Colour								
SWL	1 tonne	2 Tonne	3 Tonne	4 Tonne	5 Tonne	6 Tonne	8 Tonne	10 Tonne
	Length							
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Ratchet Straps / Load Binders

Polyester Heavy Duty Ratchet Straps To Secure Loads

Available From 1 Tonne rated to 15 Tonne and 1M to



Easy Winder

Fast and Easy Way of Keeping Your Ratchets Tidy



Lifting and Tensioning

Ansel Jones Type Steel Snatch Blocks



Part No	Sheave mm	Wire Dia mm	SWL	KG
LSBH3	76	7 - 9	2	4
LSBH4	114	10- 12	4	6
LSBH616	152	16	8	15
LSBH6	152	20-22	8	15
LSBH8	203	20-22	8	20
LSBH815	203	20-22	15	34
LSBH10	254	20-22	12	36
LSBH12	305	24-26	15	54
LSBH14	357	28-30	22	91

Barton Side Opening Block

Part No	Description	Rope Dia	SWL	Weight
90401	Stainless Snap Hook	16	550kg	378g



Hastings Nylon Snatch Block

Extremely light in weight. constructed of rugged nylon reinforced fibreglass and have excellent dielectric properties.

Side opening with 3" sheave and snaphook WLL 340KG

Lifting and Tensioning

Hexa Ratchet Light Weight Hand Line Block



Hexa Ratchet Block Ultra Lightweight

They grip, relieving holding loads while maintaining quick ease and haul with complete control

A switch on the side engages and disengages the ratchet mechanism. Assisted load control

CE Certified
Max WLL 5KN
Max Rope Dia 14mm
Weight 700 grams

Harken Side Opening Ratchet Block

Snatchet side opening block is a high-efficiency pulley to create a very flexible piece of powerful yet compact lifting equipment

They grip, relieving holding loads while maintaining quick ease and haul with complete control A switch on the side engages and disengages the ratchet mechanism with assisted load control

Height (mm) 72 mm
Width (mm) 146.5 mm
Weight (g) 178 g
Maximum line Ø (mm) 14 mm
Breaking load (kN) 38 kN
Maximum working load (kN) 10 kN



Lifting and Tensioning

Sash Lines



Stranded polyester core with a soft, cotton outersheath.
Supplied in 8mm, 10mm, 12mm and 14mm diameters
Safe working loads of 127kg,320kg, 400kg, 425kg
respectively
Factor of safety of 6 to 1
Lengths to suit your requirements.
Supplied with spliced eye SWL,Date,Serial No,Length and
ID.

Polypropylene Rope

Economic general purpose industrial rope with a wide
variety of applications.
Good chemical resistance, and maintains strength in wet
Supplied in 220m coils
Individual lengths
Spliced Eye
Id including SWL Length Date and Serial Number can be
supplied



Staple Spun Rope

Staple spun polypropylene rope the raw material is combed and
spun into a yarn before being made into finished rope.
This makes staple spun rope stronger with a hairy finish for grip.
It is commonly used for a range of lifting and securing
applications where greater strength is required.
Supplied in 220m coils or individual lengths ,spliced eye ,Id
including SWL Length Date and Serial Number can be supplied



Lifting and Tensioning

Pengo Stay Dog / Anchor Pulling Eye

Made from ductile iron, the anchor rod pulling eye is exceptionally strong a safe working load of 2700kg with a 5:1 safety factor. The large offset eye is 50mm long and 35mm wide to accommodate a large pull-lift hook. The sliding wedge allows adjustment on the grip for rod diameters from 12 to 25mm. By removing the wedge a rod of 32mm can be accommodated.



Swivels

All swivels have a safety factor of 3:1. We have 3 ranges, the medium duty (HGS) having straight clevis pins, the heavy duty (SB) having shouldered clevis pins with rollers and an articulated unit (B) which assists around sheaves. Special swivel links are available up to 80 tonnes breaking strain.



Part No	SWL	Dia	Length
HGS5000	2000kg	30mm	140mm
HGS8000	4000kg	38mm	150mm
SB32	3000kg	32mm	140mm
SB39	5000kg	38mm	152mm
SB42	7000kg	42mm	160mm
B32	2000kg	32mm	125mm

Medium to Heavy Duty Cable Socks

Ideal for pulling medium to heavy loads, the pull can only be achieved from the cable end

Part No	Weave	Range	Min Breaking Strain
SE1013	Single	10-13mm	1120kg
SE1319	Single	13-19mm	1680kg
SE1925	Single	19-25mm	2240kg
SE2538	Single	25-38mm	4480kg



Lifting and Tensioning

Wire Slings

6mm diameter Galvansied Wire Rope Sling c/w Soft Eyes each end

* SWL: 400kgs

* Length: 1mtr to 10mtr

* Stamped with SWL and Serial Number

* CE marked

* Supplied with relevant certification



Chain Slings

SIZE	single		2-leg slings		3 and 4-leg slings		Endless
d	-	-	0° - 45°	45° - 60°	0° - 45°	45° - 60°	
UNIFORM LOAD METHOD OF RATING							
mm	t	t	t	t	t	t	t
5	0.8	0.64	1.12	0.8	1.6	1.18	1.25
7	1.5	1.2	2.12	1.5	3.15	2.24	2.5
10	3.15	2.5	4.25	3.15	6.7	4.75	5
13	5.3	4.25	7.5	5.3	11.2	8	8.5
16	8	6.3	11.2	8	17	11.8	12.5
19	11.2	8.95	16	11.2	23.6	17	18
22	15	12	21.2	15	31.5	22.4	23.6
26	21.2	16.95	30	21.2	45	31.5	33.5
32	31.5	25.2	45	31.5	67	47.5	50



McKissick Steel Snatch Block

Crosby McKissick Snatch Blocks



Part No	Sheave Dia	Wire Dia	WWL	Weight
LI20	3"	8 -10 mm	2000kg	2.4kg
LI21	4.5"	10 - 13mm	4000kg	5.3kg
LI22	6"	16-18	4000kg	12.6kg
LI23	10"	16-18	8000kg	18.6kg

Lifting and Tensioning

Heavy Duty Cable Pulling Socks

This range of cable socks is designed for use in heavy duty pulling applications.

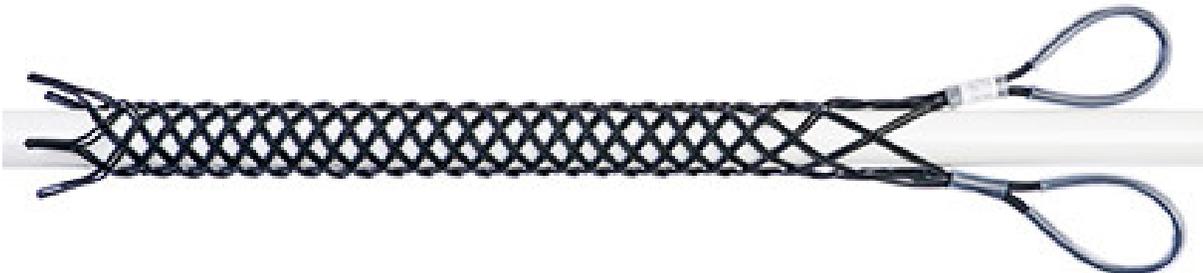
Manufactured from high tensile galvanized wire rope or stainless steel wire rope, they are available in a variety of styles, including multi-weave, high-strength, and revolving eye.

Part No	Cable Range	Min Breaking Strain
HDCG613	6 - 13mm	2250kg
HDCG1219	12 - 19mm	3380kg
HDCG1925	19 - 25mm	5540kg
HDCG2532	25 - 32mm	9550kg
HDCG3238	32 - 38mm	11465kg



Non Conductive Cable Socks for ABC

Part No	Weave	Range	To Fit	Min Breaking Strain
NC1020	Single	10-20mm	2 x 25mm ²	1120kg
NC2030	Single	20-30mm	4x 25mm -50mm ² 2 x 35mm -70mm ²	1680kg
NC3040	Single	30-40mm	2 x 95mm ² 4 x 70 - 95mm ²	2240kg
NC3040	Double	30 -40mm	2 x 95mm ² 4 x 70 - 95mm ²	4480kg
NC4050	Double	40- 50mm	4 x 1200mm ²	5376kg



Lifting and Tensioning

Technical Specification For Hard Drawn Copper

Nominal Area	Nominal Imperial Cu Equivalent	Stranding & Wire Ø	Overall Ø	Weight	Calculated Breaking Load
mm ²	in	/mm	mm	kg/km	kN
16	25	3/2.65	5.69	148.3	672.0
32	0.05	3/3.75	8.05	296.9	1296
70	0.1	7/3.55	10.65	621.0	2741
100	0.15	7/4.30	12.9	911.2	3838
125	0.2	19/2.90	14.5	1130	4929

Technical Specification For ABC Conductors

Nominal CSA of Conductor	No. of Cores	Nom. No. of Wires in Cores	Core Ø		Overall Ø	Weight	Calculated Breaking Load	Calculated DC Resistance @ 20°C	Min. Bending Radius of Bundle
			Min	Max					
mm ²	mm		mm	mm	mm	kg/m	kN	Ohms/km	m
25	2	7	5.6	6.5	19.9	0.20	8.1	1200	159
35	2	7	6.6	7.5	21.9	0.26	11.3	868	175
50	2	19	7.7	8.5	24.7	0.35	15.3	641	198
70	2	19	9.3	10.2	28.1	0.48	22.1	443	225
95	2	19	11.0	12.0	32.7	0.65	30.6	320	262
25	4	7	5.6	6.5	23.8	0.40	16.3	1200	190
35	4	7	6.6	7.5	26.2	0.52	22.4	868	210
50	4	19	7.7	8.5	29.6	0.70	30.4	641	237
70	4	19	9.3	10.2	33.7	0.96	44.0	443	270
95	4	19	11.0	12.0	39.3	1.30	61.2	320	314
120	4	19	12.9	13.1	42.0	1.55	79.6	253	336

Lifting and Tensioning

Technical Specification for ACSR Conductors

Code Name	Nominal Al Area	Stranding & Wire ϕ		Overall ϕ	Weight	Calculated Breaking Load		Calculated DC Resistance @ 20°C	Breaking Length
		Al	Steel			kgf	kN		
	mm ²	/mm	/mm	mm	kg/km	kgf	kN	Ohms/km	km
Mole	10	6/1.50	1/1.50	4.50	43.4	421	4.13	2,707	9.79
Squirrel	20	6/2.11	1/2.11	6.33	85.7	807	7.91	1,368	9.49
Gopher	25	6/2.36	1/2.36	7.08	106.9	979	9.60	1,093	9.24
Weasel	30	6/2.59	1/2.59	7.77	129.0	1167	11.44	0.9077	9.12
Fox	35	6/2.79	1/2.79	8.37	150.2	1342	13.16	0.7823	9.01
Ferret	40	6/3.00	1/3.00	9.00	172.4	1553	15.23	0.6766	9.08
Rabbit	50	6/3.35	1/3.35	10.05	215.7	1872	18.36	0.5426	8.75
Mink	60	6/3.66	1/3.66	10.98	257.1	2223	21.8	0.4545	8.72
Skunk	60	12/2.59	7/2.59	12.95	470.7	5396	52.92	0.4568	11.6
Beaver	70	6/3.99	1/3.99	11.97	305.5	2626	25.75	0.3825	8.67
Horse	70	12/2.79	7/2.79	13.95	545.8	6240	61.19	0.3936	11.6
Raccoon	75	6/4.10	1/4.10	12.30	322.6	2774	27.2	0.3622	8.67
Otter	80	6/4.22	1/4.22	12.66	341.8	2939	28.82	0.3419	8.67
Cat	90	6/4.50	1/4.50	13.50	389.2	3330	32.66	0.3007	8.63
Hare	100	6/4.72	1/4.72	14.16	428.5	3666	35.95	0.2733	8.63
Dog	100	6/4.72	7/1.57	14.15	396.5	3332	32.68	0.2733	8.46
Hyena	100	7/4.39	7/1.93	14.57	456.7	4183	41.02	0.2728	9.23
Cougar	125	18/3.05	1/3.05	15.25	428.3	3062	30.03	0.2190	7.31
Leopard	125	6/5.28	7/1.75	15.81	496.1	4156	40.76	0.2184	8.43
Tiger	125	30/2.36	7/2.36	16.52	620.0	5914	58.00	0.2203	9.81
Dingo	150	18/3.35	1/3.35	16.75	517.0	3642	35.72	0.1814	7.20
Wolf	150	30/2.59	7/2.59	18.13	746.0	7061	69.24	0.1828	9.73
Caracal	175	18/3.61	1/3.61	18.05	600.0	4191	41.10	0.1563	7.14
Lynx	175	30/2.79	7/2.79	19.53	865.0	8136	79.79	0.1576	9.66
Jaguar	200	18/3.86	1/3.86	19.30	686.0	4749	46.57	0.1367	7.08
Panther	200	30/3.00	7/3.00	21.00	1001	9407	92.25	0.1362	9.66
Lion	225	30/3.18	7/3.18	22.26	1125	10248	100.5	0.1213	9.36
Bear	250	30/3.35	7/3.35	23.45	1248	11339	111.2	0.1093	9.34
Goat	300	30/3.71	7/3.71	25.97	1530	13848	135.8	0.08911	9.30
Sheep	350	30/3.99	7/3.99	27.93	1771	15938	156.3	0.07704	9.25
Antelope	350	54/2.97	7/2.97	26.73	1467	12084	118.5	0.07727	8.55
Bison	350	54/3.00	7/3.00	27.00	1497	12328	120.9	0.07573	8.54
Deer	400	30/4.27	7/4.27	29.89	2027	18202	178.5	0.06727	9.23
Zebra	400	54/3.18	7/3.18	28.62	1683	13450	131.9	0.06740	8.29
Elk	450	30/4.5	7/4.50	31.50	2251	20221	198.3	0.06057	9.23
Camel	450	54/3.35	7/3.35	30.15	1849	14878	145.9	0.06073	9.25
Moose	500	54/3.35	7/3.53	31.77	2025	16417	161.0	0.0547	9.41

Lifting and Tensioning

Technical Specification For AAC Conductors

Code Name	Nominal Al Area	Stranding & Wire Ø	Actual Area	Overall Ø	Weight	Calculated Breaking Load		Calculated DC Resistance @ 20°C	Breaking Length
	mm ²	/mm	mm ²	mm	kg/km	kgf	kN	Ohms/km	km
-	0	7/1.47	11.88	4.41	32	340	3.33	2,771	10.63
Box	15	7/1.85	18.82	5.55	51	537	5.27	1,749	10.53
Acacia	20	7/2.08	23.79	6.24	65	680	6.67	1,384	10.46
Almond	25	7/2.34	30.10	7.02	82	861	8.44	1,093	10.5
Cedar	30	7/2.54	35.47	7.62	97	1014	9.94	0.9281	10.45
-	5	7/2.77	42.18	8.31	115	1205	11.82	0.7804	10.48
Fir	40	7/2.95	47.84	8.85	131	1367	13.41	0.6881	10.44
Hazel	50	7/3.30	59.87	9.90	164	1711	16.78	0.5498	10.43
Pine	60	7/3.61	71.65	10.83	196	2048	20.08	0.4594	10.45
-	0	7/3.91	84.05	11.73	230	2402	23.56	0.3917	10.44
Willow	75	7/4.04	89.73	12.12	245	2564	25.15	0.3669	10.47
-	0	7/4.19	96.52	12.57	264	2758	27.05	0.3411	10.45
-	0	7/4.45	108.9	13.35	298	3112	30.52	0.3023	10.44
Oak	100	7/4.65	118.9	13.95	325	3398	33.32	0.2769	10.46
-	100	19/2.82	118.7	14.10	326	3393	33.27	0.2787	10.41
Mulberry	125	19/3.18	150.9	15.90	415	4312	42.29	0.2192	10.39
Ash	150	19/3.48	180.7	17.40	497	5164	50.64	0.1831	10.39
Elm	175	19/3.76	211.0	18.80	580	6030	59.13	0.1568	10.4
Poplar	200	32/2.87	239.4	20.09	659	6841	67.09	0.1385	10.38
-	225	37/3.05	270.3	21.35	744	7724	75.75	0.1227	10.38
Sycamore	250	37/3.23	303.2	22.61	835	8664	84.97	0.1093	10.38
Upas	300	37/3.53	362.1	24.71	997	10350	101.5	0.09156	10.38
Walnut	350	37/3.81	421.8	26.67	1162	12053	118.2	0.07860	10.37
Yew	400	37/4.06	479.0	28.42	1319	13685	134.2	0.06921	10.38
Totara	425	37/4.14	498.1	28.98	1372	14233	139.6	0.06656	10.37
Rubus	500	61/3.50	586.9	31.50	1620	16771	164.5	0.05662	10.35
Araucaria	700	61/4.14	821.1	37.26	2266	23450	230.0	0.04047	10.35