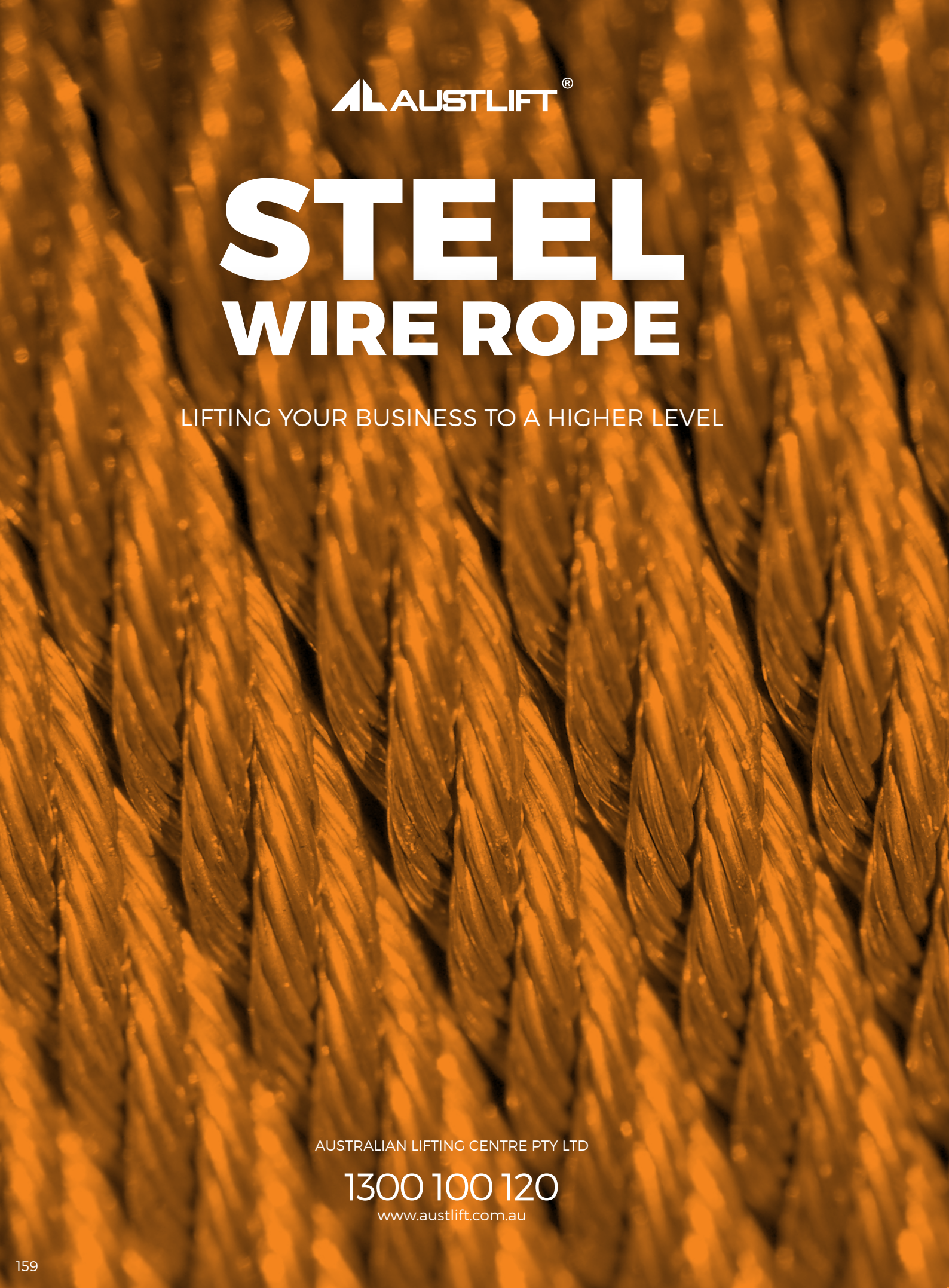
AUSTLIFT®
STEEL
WIRE ROPE
LIFTING YOUR BUSINESS TO A HIGHER LEVEL
AUSTRALIAN LIFTING CENTRE PTY LTD
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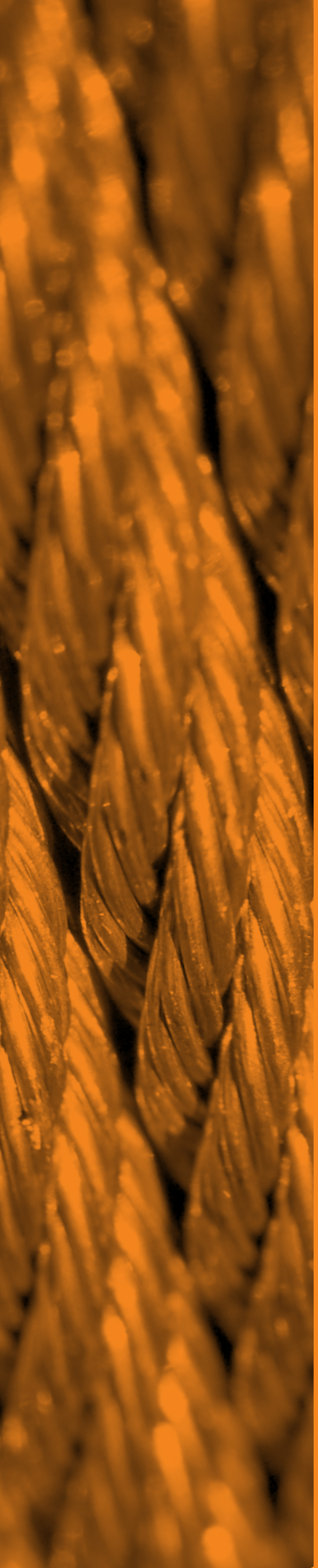

STEEL WIRE ROPE

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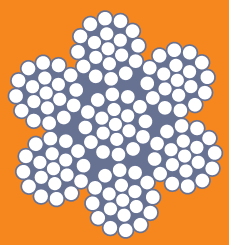
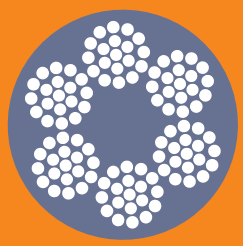
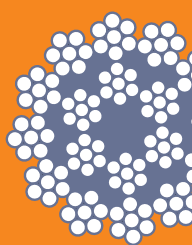
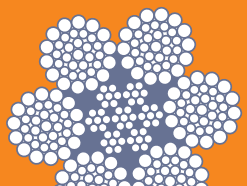








Stainless Steel Wire Rope

Austlift stainless steel wire ropes are essential for flexible wire rope solutions in corrosive environments for the marine, building industries and architectural.

- Sizes from 1.2mm to 16mm and other sizes available upon request.
- Standard Stainless Steel grades of AISI 304 and AISI 316 available.
- Construction's of 1x19, 7x7 and 7x19 in stock.
- Conforms to AS3569, Test certificate available with each reel batch.
- Commonly reel lengths are 305 metres.
- 1000 metre reel lengths are available upon request.

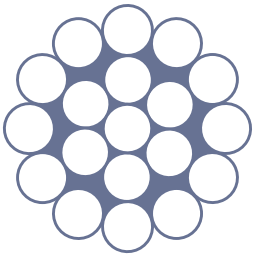
Chemical analysis of alloying elements as a percentage	
Carbon	0.08% Max
Nickel	8-10.5%
Chromium	18-20%
Manganese	2% Max
Silicon	1% Max
Phosphorus	0.045 Max
Sulphur	0.03% Max

MINIMUM BREAKING STRENGTH							
DIAMETER		1X19		7X7		7X19	
(mm)	(in)	G304	G316	G304	G316	G304	G316
1.2	3/64	170 kg	110 kg	122 kg	87 kg	122 kg	87 kg
1.6	1/16	227 kg	215 kg	217 kg	201 kg	217 kg	201 kg
2.0	5/64	363 kg	320 kg	294 kg	277 kg	294 kg	277 kg
2.4	3/32	544 kg	510 kg	417 kg	389 kg	417 kg	389 kg
3.0	1/8	835 kg	776 kg	674 kg	625 kg	700 kg	648 kg
3.2	1/8	953 kg	885 kg	771 kg	713 kg	798 kg	739 kg
4.0	5/32	1497 kg	1395 kg	952 kg	874 kg	952 kg	878 kg
4.8	3/16	2132 kg	1971 kg	1678 kg	1559 kg	1678 kg	1559 kg
5.5	7/32	2858 kg	2683 kg	2177 kg	2016 kg	2268 kg	2097 kg
6.4	1 / 4	3720 kg	3493 kg	2767 kg	2609 kg	3176 kg	2953 kg
7.2	9/32	4673 kg	4388 kg	3448 kg	3237 kg	3539 kg	3323 kg
7.9	5/16	5671 kg	5325 kg	4083 kg	3780 kg	4083 kg	3780 kg
9.4	3/8	7940 kg	8546 kg	5444 kg	5057 kg	5444 kg	5057 kg
11.1	7/16	9382 kg	8769 kg	8467 kg	7925 kg	8480 kg	7962 kg
12.7	1 / 2	11128 kg	10400 kg	10967 kg	10250 kg	10255 kg	9585 kg
14.3	9/16	15165 kg	14173 kg	11892 kg	11114 kg	11892 kg	11114 kg
16.0	5/8	19857 kg	18558 kg	15536 kg	14520 kg	15537 kg	14520 kg

AS/NZS 3569

Certified

Length 305-3000M



G304 G316 1x19 Construction

Austlift stainless steel 1x19 wire ropes have a non-flexible characteristic suitable for all stationary rigging, mast stays and applications where the strand rope will not incur bending.

- Sizes from 1.2mm to 4.8mm other sizes available upon request.
- Standard stainless steel grades of AISI 304 and AISI 316 available.
- Conforms to AS3569.
- Test certificate available with each reel batch.
- Commonly reel lengths are 305 metres.
- 1000 metre reel lengths are available upon request.

SIZE		CODE		LENGTH (M)	Wt. (kg)
mm	in	G304	G316		
1.2	3/64	800123L*	-	3000	21.9
1.6	1/16	800163*	-	305	3.81
2.0	5/64	-	802203	305	6.31
3.2	1/8	-	802323	305	16.16
4.0	5/32	800403*	802403	305	23.91
4.8	3/16	800483*	802483	305	34.86

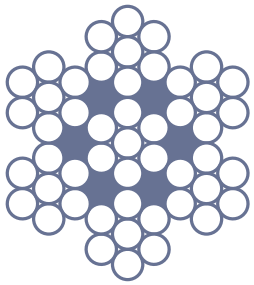
* Discontinued products

STAINLESS STEEL WIRE ROPE

G304 G316 7x7 Construction

SIZE		CODE		LENGTH (M)	Wt. (kg)
mm	in	G304	G316		
1.2	3/64	803123	804123	305	2.07
1.6	1/16	803163	804163	305	3.14
		803163L	-	1000	11.3
2.0	5/64	803203	804203	305	5
2.4	3/32	803243	804243	305	7.11
2.5	3/32	803253	804253	305	7.75
3.0	1/8	803303	804303	305	11
3.2	1/8	803323	804323	305	12.7
4.0	5/32	803403	804403	305	19.75
		-	804400	1000	65
4.8	3/16	803483	-	305	28.8
5.0	-	-	804503	305	30.8
6.0	1/4	-	804603	305	44.2
8.0	5/16	803803	804803	305	79

Austlift Metal Fill Factor: 60.28%



AS/NZS 3569

Certified

Length 305-1000M

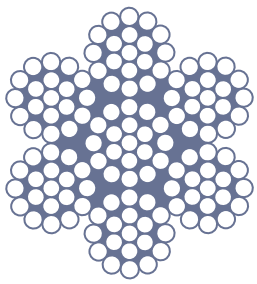
Austlift stainless steel 7x7 wire ropes have a semi-flexible characteristic suitable for use as guard rails, hand rails, luff wires and struts.

- Sizes from 1.2- 8.0mm other sizes available upon request.
- Standard stainless steel grades of AISI 304 and AISI 316 available.
- Conforms to AS3569.
- Test certificate available with each reel batch.
- Commonly reel lengths are 305 and 1000 metres.
- 1000 metre reel lengths are available upon request.

G304 G316 7x19 Construction

SIZE		CODE		LENGTH (M)	Wt. (kg)
mm	in	G304	G316		
2.4	3/32	801503	807243	305	7.26
3.0	1/8	801504	807303	305	11
		-	807300	1000	35
3.2	1/8	801505	807323	305	9.8
4.0	5/32	801506	807403	305	20
		-	807400	1000	62
4.8	3/16	801507	807483	305	29
5.0	3/16	801508	807503	305	30
6.0	1/4	801510	807603	305	45
8.0	5/16	801512	807803	305	76.35
9.3	11/32	-	807933	305	103.4
10.0	3/8	801515	807950	305	120
12.0	1/2	801516	807955	305	171.7
14.0	9/16	801518	807965	305	234

Austlift Metal Fill Factor: 58.57%



AS/NZS 3569

Certified

Length 305-1000M

Austlift stainless steel 7x19 wire ropes have a flexible characteristic suitable for running rigging, fishing nets, slings and any other where flexible rope is required for the application.

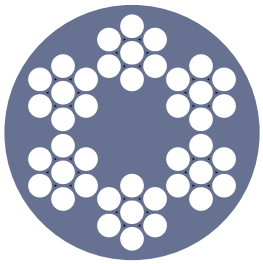
- Sizes from 3.0mm to 10mm other sizes available upon request.
- Standard stainless steel G304 and G316 available.
- Conforms to AS3569.
- Test certificate available with each reel batch.
- Commonly reel lengths are 305 and 1000 metres.
- 1000 metre reel lengths are available upon request.
- PVC coated available up on request.

PVC COATED WIRE ROPE

Austlift PVC coated galvanised wire ropes have a flexible characteristic with polyvinyl chloride UV proof coating suitable for general purpose, architectural, marine, stage/theatre or wherever PVC rope is required for the application.

- Sizes available from 2mm wire - 3mm PVC to 10mm wire – 12mm PVC.
- Normaly supplied in blue. Other colours stocked are clear (C), Black (B), Red (R), and Yellow (Y) on various sizes or available on request.
- Construction of 6x7FC and 6x19FC with standard grade of G1570 available.
- Test certificate available with each reel batch.
- Reel lengths available from 200 to 1000 metres.
- 500 metre length available upon request.

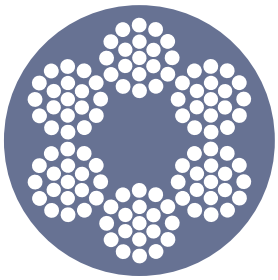
AS/NZS 3569 Certified Length 250-1000M



G1570 PVC Coated 6x7 + FC, Gal

SIZE (mm)		CODE	MBS (kN)	LENGTH (M)	Wt. (kg)
CORE	PVC		G1570		
2	3	810020 (R)	2.1	1000	20.4
3	4	810030 (C) (R)	4.7	1000	40.7
		810030C2 Clear	4.7	250	10.175
		810032	4.7	250	10.175
3.5	5	810035 (B) (G) (R) (Y)	6.2	1000	59.5
4	6	810040 (B) (R)	8.4	1000	81.6

AS/NZS 3569 Certified Length 200-1000M



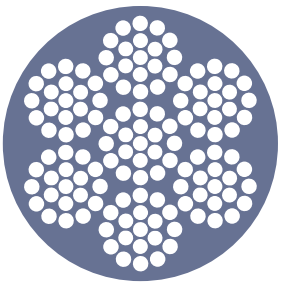
G1570 PVC Coated 6x19 + FC, Gal

SIZE (mm)		CODE	MBS (kN)	LENGTH (M)	Wt. (kg)
WIRE	PVC		G1570		
3	5	811035 (R)	6.4	1000	58.2
4	6	811040 (R) (Y)	8.5	1000	80
5	7	811050 (C) (R) (Y)	13.2	1000	116
6	8	811060 (B) (C) (Y)	19.3	1000	160
		811062	19.3	200	32
8	10	811080	33.3	1000	269.6
		811085	33.3	500	134.8
8	12	811085S*	33.3	500	140.8
10	12	811110	48.2	1000	404
		811105	48.2	500	202

* Discontinued products

Austlift PVC coated stainless steel wire ropes are designed with polyvinyl chloride UV proof coating suitable for general purpose, architectural, marine, stage/theatre or wherever PVC rope is required for the application.

AS/NZS 3569 Certified Length 200-1000M



G316 PVC Coated 7x19, Stainless steel

SIZE (mm)		CODE	MBS (kN)	LENGTH (M)	Wt. (kg)
WIRE	PVC		G316		
2	3	813023C	2.67	305	7.5
3	4	813033C	6	305	13.3
4	6	813043C	9.5	305	26.8

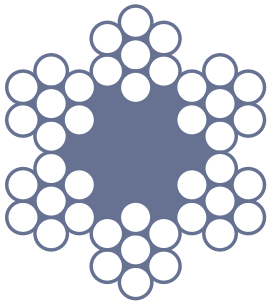
FIBRE CORE GALVANISED WIRE ROPE

G1570 6X7 + FC

- Sizes available from 1.6-8mm with standard grade of G1570.
- Supplied reel lengths available are 500 and 1000 metres.
- Conforms to AS3569, test certificate available with each reel batch.

SIZE (mm)	CODE GAL	MBS (kN) G1570	LENGTH (M)	Wt. (kg)
1.6	867016	1.3	1000	9
2	867020	2.1	1000	14.7
2.5	867025	3.9	1000	22.5
3	867030	4.7	1000	32
3.5	867035*	6.4	1000	43
4	867040	8.4	1000	57
5	867050	13.0	1000	89
6	867060	18.7	1000	129
	867065	18.7	500	64.5
8	867080	25.5	1000	229

Austlift Metal Fill Factor: 46.49% * Discontinued products



AS/NZS 3569 Certified Length 500-1000M

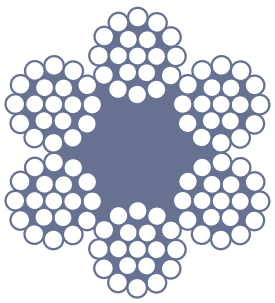
Austlift 6x7 fibre core galvanised wire ropes have a flexible characteristic and suitable for, guying barrier wire, catenary, traveling irrigation cable, marine and general purpose uses wherever rope is required for the application.

G1570 6X19 + FC

- Sizes available from 3 to 9mm with standard grade of G1570.
- Supplied reel lengths available are 500 and 1000 metres.
- Conforms to AS3569, test certificate available with each reel batch.

SIZE (mm)	CODE GAL	MBS (kN) G1570	LENGTH (M)	Wt. (kg)
3.0	869030	4.26	1000	31
3.5	869035*	5.8	1000	42
4	869040	7.7	1000	55
5	869050	12.0	1000	86.5
6	869060	17.6	1000	124
	869062	17.6	250	31
8	869080	30.9	1000	221
9	869090	39.1	1000	280
	869095	39.1	500	140

Austlift Metal Fill Factor: 47.38% * Discontinued products



AS/NZS 3569 Certified Length 500-1000M

Austlift 6x19 fibre core galvanised wire ropes have a flexible characteristic and suitable for, engineering, winch, pulling, marine, slings and general purpose uses wherever rope is required for the application.

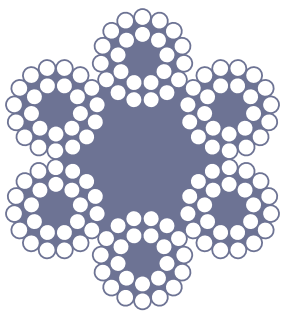
G1570 6X24 + FC

Austlift 6x24 fibre core galvanised wire ropes have very flexible characteristic and suitable for, slings, static lines, hoists, winches or general purpose uses wherever rope is required for the application.

- Sizes available from 6- 24mm with standard grade of G1570.
- Supplied reel lengths available are 500 and 1000 metres.
- Conforms to AS3569, test certificate available with each reel batch.

SIZE (mm)	CODE GAL	MBS (kN) G1570	LENGTH (M)	Wt. (kg)
12	864125	63.3	500	229
13	864135*	75.9	500	269
14	864145	86.2	500	312
16	864165	113	500	412.5
18	864185	143	500	515
20	864205	176	500	635
22	864225	213	500	770
24	864245	253	500	875

Austlift Metal Fill Factor: 41.6%



AS/NZS 3569 Certified Length 500-1000M

SIZE (mm)	CODE GAL	MBS (kN) G1570	LENGTH (M)	Wt. (kg)
6	864060*	15.8	1000	114
8	864080	28.2	1000	204
10	864100	44.9	1000	318
12	864120	63.3	1000	458
13	864130*	75.9	1000	538
14	864140	86.2	1000	624

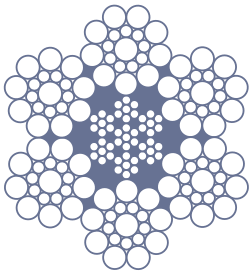
* Discontinued products

STEEL CORE GALVANISED WIRE ROPE

AS/NZS 3569

Certified

Length 500-1000M



- Sizes available from 13-28mm with standard grade of 1770.
- Black and Galvanised finish in stock.
- Supplied reel lengths available are 500 and 1000 metres.
- Conforms to AS3569, test certificate available with each reel batch.

B1770 6X19S (9/9/1) + IWRC

Austlift 6x19S steel core supplied wire ropes have a flexible characteristic and suitable for, logging wire, aerial, winch cable, or pulling use wherever flexible rope is required for the application.

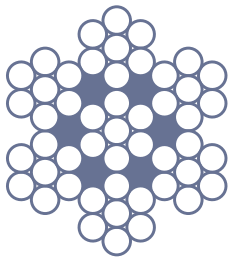
SIZE (mm)	CODE BLACK	MBS (kN) B1770	LENGTH (M)	Wt. (kg)
13	822130	106	1000	706
16	822165	161	500	551
18	822185	204	500	674
20	822205	252	500	808
22	822220	305	1000	1990
22	822225	305	500	1003
26	822265	426	500	1396
28	822285	494	500	1565

Austlift Metal Fill Factor: 59.02%

AS/NZS 3569

Certified

Length 500-3000M



Irrigation Cable

- Sizes available from 1.2mm to 20mm with standard grade of G1570, G1770 and G2070.
- Supplied reel lengths available from 500 to 3000 metres.
- Conforms to AS3569, test certificate available with each reel batch.

G1570 G1770 G2070 7X7 WSC

Austlift 7x7 steel core galvanised wire ropes have a semi-flexible characteristic and suitable for irrigation wires, guy wires catenary or general purpose uses wherever stiff rope is required for the application.

SIZE (mm)	CODE GAL	MBS (kN) G2070	LENGTH (M)	Wt. (kg)
1.2	878012	1.09	1000	6.2
3	878030	6.85	1000	35
4	878040	12.9	1000	63
	878043	12.9	3000	189
5	878050	18.8	1000	99
	878053	18.8	3000	294
6	878060	27	1000	143
	878062	27	2000	286
	878063	27	3000	429
7	878070	37	1000	197
	878072	37	2000	394
	878073	37	3000	591
8	878080	47.4	1000	252
	878082	47.4	2000	504
	878083	47.4	3000	756
9	878090	60	1000	320
	878092	60	2000	640
	878093	60	3000	960
10	878100	74	1000	392
12	878125	106	500	283
	878120	106	1000	576
16	878160	205	1000	1010

SIZE (mm)	CODE GAL	MBS (kN) G1570	LENGTH (M)	Wt. (kg)
1.6	877016	1.73	1000	10.9
2	877020	2.3	1000	16
	877020S	2.3	500	8
	877020XS	2.3	250	4
2.5	877025	3.14	1000	25
3	877030	5.2	1000	36
	877030S	5.2	500	18
4	877040	9.2	1000	63
6	877065	22	500	71.5
	877060	22	1000	143
8	877080	39	1000	252
10	877100	61	1000	393
12	877120	88	1000	567
16	877160	144	1000	994
	877165	144	500	497
20	877205	225	500	785

SIZE (mm)	CODE GAL	MBS (kN) G1770	LENGTH (M)	Wt. (kg)
6	878060N	23.22	1000	143
	878062N	23.22	2000	284
7	878070N	37.2	1000	197
	878073N	37.2	3000	591
8	878082N	40.6	2000	504
	878083N	40.6	3000	756
9	878092N	51.52	2000	637
	878093N	51.52	3000	955.5

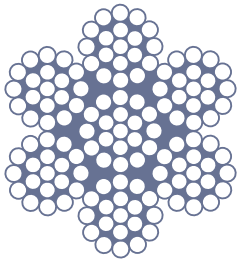
Austlift Metal Fill Factor: 60.28%

G1770 G2070 7X19 WSC

Austlift 7x19 steel core galvanised wire ropes have a flexible characteristic and suitable for, winch cable, running rigging, control cable, guying or general purpose uses wherever flexible rope is required for the application.

SIZE (mm)	CODE GAL	MBS (kN) G2070	LENGTH (M)	Wt. (kg)
3.0	879030	7.8	1000	36.8
3.2	879032	8.4	1000	42
3.5	879035	8.9	1000	46
4	879040	11.2	1000	61
	879040L (LHOL)	11.2	1000	61
5	879050	17.4	1000	95
6	879060	25.4	1000	137
7	879070	34.01	1000	195.2
8	879080	43.9	1000	244
10	879100	68.6	1000	381
12	879120	98.9	1000	572
	879125	98.9	500	274

Austlift Metal Fill Factor: 58.57%



Aircraft Cable

AS/NZS 3569

Certified

Length 500-1000M

- Sizes available from 3 to 12mm with standard grade of G2070.
- Supplied reel lengths available are 500 and1000 metres.
- Conforms to AS3569, test certificate available with each reel batch.

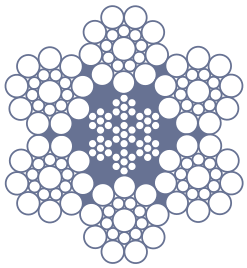
SIZE (mm)	CODE GAL	MBS (kN) G1770	LENGTH (M)	Wt. (kg)
5.5	879055	17.4	1000	115
7	879070N	29.08	1000	187
8	879080N	37.5	1000	244
10	879100N	58.74	1000	381

G2070 6X19S & 6X25FI

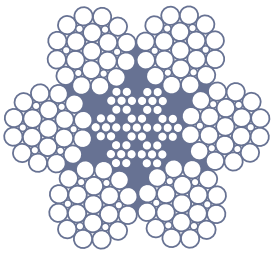
Steel Core Wire Rope, Galvanised Winch Rope

Austlift 6x19s & 6x25fi steel core wire rope have a high strength characteristic and suitable for wire rope hoist or winching purposes wherever high capacity rope is required for the application.

- Sizes available are 8mm, 11mm and 16mm
- Galvanised finish, standard grade of 2070 available.
- Supplied reel lengths available are 500 and 1000 metres.
- Conforms to AS3569, test certificate available with each reel batch.



6x19S + IWRC RHOL



6x25Fi + IWRC RHOL

AS/NZS 3569

Certified

Length 500-1000M

DIA. (mm)	CODE GAL	TYPE	MBS (kN) G2070	LENGTH (M)	Wt. (kg)
12	821125	6 X 19S	106	500	285
	821120	6 X 19S	106	1000	570
13	821130	6 X 19S	124	1000	707
14	821140	6 X 19S	144	1000	740
16	821160	6 X 19S	188	1000	1011
22	821225	6 X 19S	356	500	995

DIA. (mm)	CODE GAL	TYPE	MBS (kN) G2070	LENGTH (M)	Wt. (kg)
9	825090	6 X 25FW	47	1000	327
10	825100	6 X 25FW	74	1000	402
12	825120	6 X 25FW	106	1000	301
13	825135	6 X 25FW	124	500	340
	825130	6 X 25FW	124	1000	680
18	825185	6 X 25FW	238	1000	655
22	825225	6 X 25FW	356	500	1102
26	825265	6 X 25FW	498	500	1415

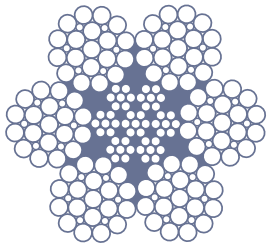
DIA. (mm)	CODE GAL	TYPE	MBS (kN) G2070	LENGTH (M)	Wt. (kg)	SUITABLE FOR AUSTLIFT WIRE ROPE WINCH		
						WLL (kg)	CODE (ALUMINIUM CASE)	CODE (STEEL CASE)
8.3	821085	6 X 19S	47	500	122	800	135008	135108
	821080	6 X 19S	47	1000	268			
11	825115	6 X 25FW	89.2	500	253	1600	135016	135116
11.4	825110	6 X 25FW	96	1000	506			
16.4	825165	6 X 25FW	198	500	535	3200	135032	135132

STEEL CORE GALVANISED WIRE ROPE

AS/NZS 3569

Certified

Length 500-1000M



B1770 G1770 6X25FI + IWRC

6x25 steel core wire ropes have a flexible characteristic suitable for engineering, slings, derrik cranes or general purpose uses wherever flexible rope is required.

- Sizes available from 8 to 32mm with standard grade of 1770.
- Supplied reel lengths available are 500 and 1000 metres.
- Conforms to AS3569, test certificate available with each reel batch.
- Black/galvanised finish available.

DIA. (mm)	CODE		MBS (kN)		LENGTH (M)	Wt. (kg)
	GAL	BLACK	1770	1960		
9	826090	827090	51	56.5	1000	348
10	826100	827100	63.1	69.8	1000	430
11	826110	-	76.3	84.4	1000	485
12	-	827120	90.8	100	1000	602

Future stock will be upgraded to G1960.

DIA. (mm)	CODE		MBS (kN)		LENGTH (M)	Wt. (kg)
	GAL	BLACK	1770	1960		
8	-	827085	40.3	44.33	500	134
11	-	827115	76.3	84.4	500	253
12	826125	827125	90.8	100	500	301
13	826135	827135	106	118	500	354
14	826145	-	124	137	500	410
16	826165	827165	161	179	500	550
20	826205	827205	252	279	500	835
22	826225	827225	305	338	500	1010
26	826265	827265	426	472	500	1415

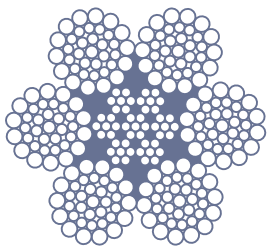
Austlift Metal Fill Factor: 61.31%

Steel Wire Rope

AS/NZS 3569

Certified

Length 500-1000M



B1770 G1770 6X36SW + IWRC

6x36 steel core wire ropes have a flexible characteristic suitable for engineering, slings, derrik cranes or general purpose uses wherever flexible rope is required.

- Sizes available from 9 to 32mm with standard G1770.
- Black/galvanised finish available.
- Supplied reel lengths available are 500M and 1000M.
- Conforms to AS3569, test certificate available with each reel batch.

DIA. (mm)	CODE	MBS (kN)		LENGTH (M)	Wt. (kg)
	GAL	1770	1960		
9	836090	51	56.5	1000	336.5
10	836100	63.1	69.8	1000	409
11	836110	76.3	84.4	1000	506
12	836120	90.8	100	1000	602

Future stock will be upgraded to G1960.

DIA. (mm)	CODE		MBS (kN)		LENGTH (M)	Wt. (kg)
	GAL	BLACK	1770	1960		
12	836125	837125	90.8	100	500	301
13	836135	837135	106	118	500	353.5
14	836145	837145	124	137	500	421.5
16	836165	837165	161	179	500	550
18	836185	837185	204	226	500	690
20	836205	837205	252	279	500	835
22	836225	837225	305	338	500	1010
24	836245	837245	363	402	500	1200
26	836265	837265	426	472	500	1411
32	836325	837325	645	715	500	2137.5

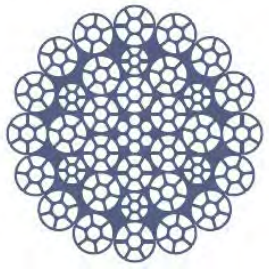
Austlift Metal Fill Factor: 61.26%

CRANE ROPE

B2160 35WxK7 Compacted Crane rope

Austlift 35wxK7 compacted crane rope is generally used as the main host rope on tower cranes, mobile cranes, dockside cranes and latice boom cranes

DIA (mm)	CODE	MBS (kN)	LENGTH (M)	Wt. (kg)
	BLACK	B1960		
13	890135	156	500	425
14	890145	158	500	492.5
16	890165	206	500	645
18	890185	260	500	815
20	890205	321	500	1020
22	890225	389	500	1235
24	890245	442	500	1377



AS/NZS 3569

Certified

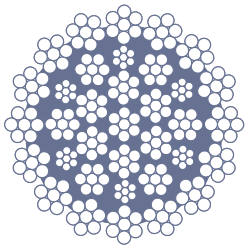
Length 500M

- Available in sizes from 13mm to 24mm.
- 35 strands at 7 wires compacted.
- High elastic rotation resistance.
- Supplied reel length available is 500M.
- Conforms to AS 2841, test certificate available with each reel.

B2070 35Wx7 WSC Wire Rope

Austlift 35Wx7 non-rotating wire ropes have a non-spin characteristic suitable for lifting rope on cranes.

DIA (mm)	CODE	MBS (kN)	LENGTH (M)	Wt. (kg)
	BLACK	B2070		
12	888125	107.7	500	331
13	888135	126	500	388.5
14	888145	155	500	436
16	888165	191	500	589
18	888185	241	500	745
19	888195	269	500	830
20	888205	297	500	890
22	888225	361	500	1113
24	888245	428	500	1325



AS/NZS 3569

Certified

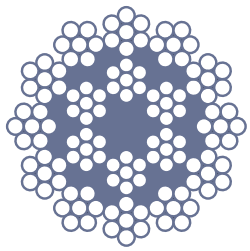
Length 500M

Non Rotating

- Sizes available from 12 to 24mm with standard grade of 2070.
- Black finish. Galvanised finish available upon request.
- Supplied reel length available is 500 metres.
- Conforms to AS3569, test certificate available with each reel batch.
- All non-rated crane rope, but compacted one has higher MBS to suit sine certain brand mobile crane.

B2070 G2070 18x7 FC Wire Rope

DIA (mm)	CODE		MBS (kN)	LENGTH (M)	Wt. (kg)
	GAL	BLACK	2070		
6	-	887065	23.7	500	69
	886060	887060	23.7	1000	138
8	-	887085	42.1	500	122.5
9	-	887095	53.4	500	155
10	-	887105	66.1	500	191.5
	886100	-	66.1	1000	383
	886102	-	66.1	2000	770
11	886115	887115	79.8	500	231.5
12	886125	887125	95	500	275.5
13	886135	887135	111	500	328
14	-	887145	130	500	375
	886140	-	130	1000	750
16	-	887165	168	500	490
18	-	887185	214	500	620
19	-	887195	238.5	500	650



AS/NZS 3569

Certified

Length 500-1000M

Non Rotating

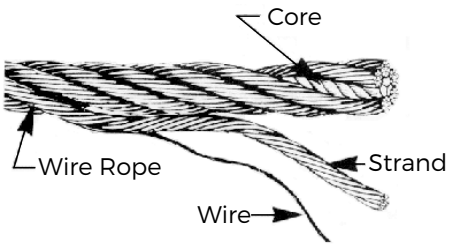
Austlift 18x7 non-rotating wire ropes have a non-spin characteristic suitable for lifting rope on cranes.

- Sizes available from 6 to 19mm with standard grade of 2070.
- Black finish. Galvanised finish available upon request.
- Supplied reel lengths available are 500 and 2000 metres.
- Conforms to AS3569, test certificate available with each reel batch.

B2070 18x7 SC Wire Rope

DIA (mm)	CODE	MBS (kN)	LENGTH (M)	Wt. (kg)
	BLACK	B2070		
8	887085SC	42.1	500	122.5
11	887115SC	79.8	500	240

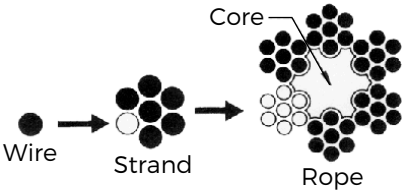
WIRE ROPE INTRODUCTION



Composition of Wire Rope

General Description

Steel wire ropes are made up of a number of strands which are composed of a number of wires laid or wound around a central core in a symmetrical manner, with uniform pitch and direction. The result is a strong, flexible and versatile product, with a variety of applications from boat winch cables to structural suspension bridges and cranes. Steel wire ropes can be supplied in various sizes, constructions, grades and finishes depending upon the application.



The main components of a wire rope are shown below.

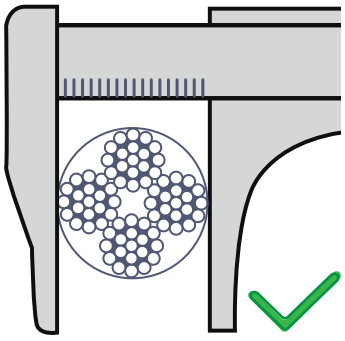
Wire Rope Construction

In the above example, each individual wire is arranged around a central wire to form a 7-wire strand. Six of these strands are formed around a central core to make a Wire Rope. The rope is specified as 6x7 (6/1) - i.e. six strands each of seven wires.

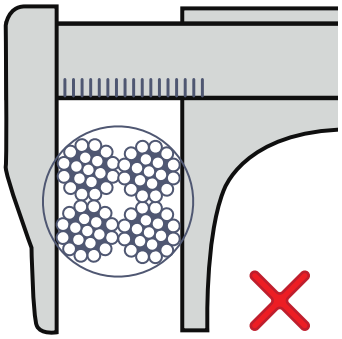
The size and number of wires in each strand, as well as the size and number of strands in the rope greatly affect the characteristics of the rope. In general, a large number of small-size wires and strands produce a flexible rope with good resistance to bending fatigue. The rope construction is also important for tensile loading (static, live or stock), abrasive wear, crushing, corrosion and rotation.

Measurement

Ropes are referred to by a diameter size. The correct way to measure wire rope:



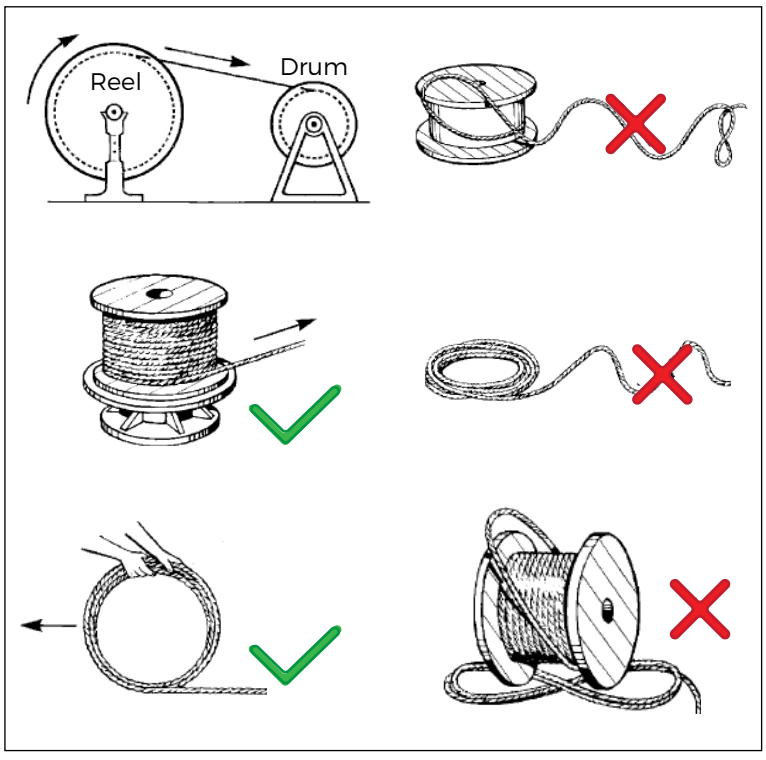
Correct Method



Incorrect Method

Correct Storage and Handling

Store wire away from moisture and not directly on the floor. When wire is to be stored for a long period, reels should be turned over as lubricants can settle — especially in hot climates. Check lubricant when using wire that has been stored. Add new lubricant if necessary.



WIRE ROPE TERMINOLOGY

Round Strand Rope

A stranded rope in which the strands are made of wires disposed in such a manner that the cross-section of the strand is approximately circular in shape.

Triangular Strand Rope

A stranded rope in which the strands are made of wires disposed in such a manner that the cross-section of the strand is approximately triangular in shape.

Multi-Strand Rope (sometimes called "non-rotating")

A stranded rope in which two or more layers of strand are spun helically around the main core. The layers of strands are so disposed that, when under tension, the rope will have the minimum obtainable torque or rotational tendency.

Layer

A group of strands in a rope or a group of wires in a strand spun concentrically around the core.

Main Core of Rope

The core of the rope around which the strands are spun. Fibre core — A main core which is itself a fibre rope. I.W.R.C. — A main core which is itself an independent wire rope.

Tensile Grade of Wire

The value of tensile strength used to designate the minimum of the tensile strength range.

Galvanised Wire

Wire which has been zinc coated by one of the permissible processes. The quality of the galvanised coating is defined by its Wt., evenness and adherence. Different classes are designated conventionally by a letter (e.g. Class A or Z).

Ordinary (Regular) Lay Rope

Ropes in which the direction of lay of the outer layer of wires in the strands, is opposite to the direction of lay of the strands in the rope.

Lang Lay Rope

Ropes in which the direction of the outer layer of wires in the strands is the same as the direction of lay of the strands in the rope.

Lay Length

That distance in a strand of rope, measured parallel to the longitudinal axis, in which the wire in the strand or the strand in the rope makes one complete turn (or helix) about the axis of the strand or rope.

Minimum Breaking Load

The breaking load below which a sample of the rope will not fracture when tested to destruction in the prescribed manner. The value is calculated from the product of the square of the nominal diameter of the rope, the tensile grade of the wire and a co-efficient appropriate to the construction of the rope.

Actual Breaking Load

The maximum load obtained in testing a sample of the rope to destruction in the prescribed manner.

Calculated Breaking Load

The value calculated from the product of the sum of the cross-sectional metallic area of the individual wires in the rope and the tensile grade of the wire. This metallic area can be associated directly with the square of the nominal diameter.

Factor of Safety

For the purpose of this publication, this is the ratio between the minimum breaking load and the tensile load in the rope.