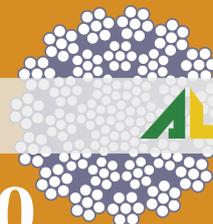
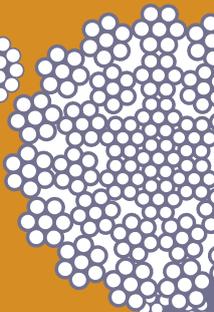
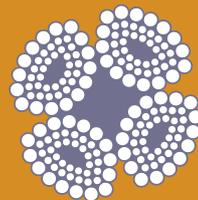
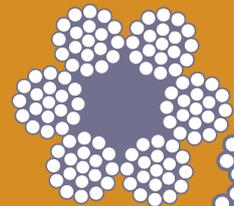
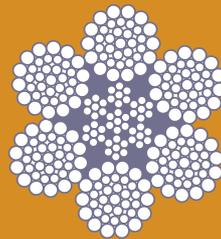
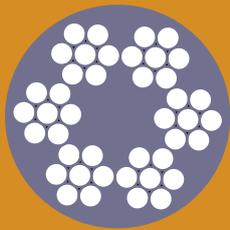
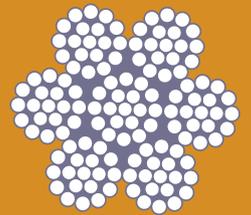
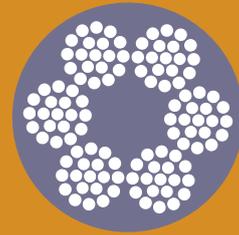


AUSTRALIAN LIFTING CENTRE PTY LTD

STEEL WIRE ROPE

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LIFTING YOUR BUSINESS TO A HIGHER LEVEL

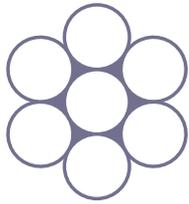


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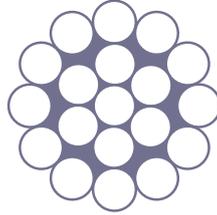
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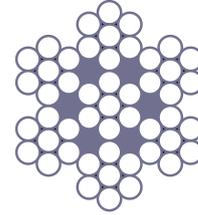
Typical Flexible Steel Wire Rope Construction



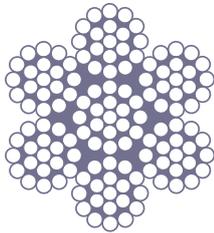
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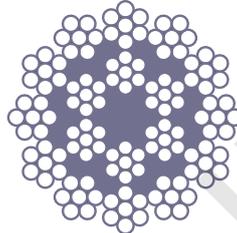
1x19



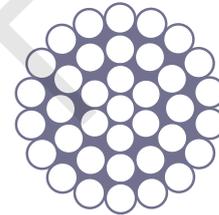
7 X 7 WSC



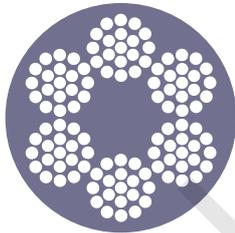
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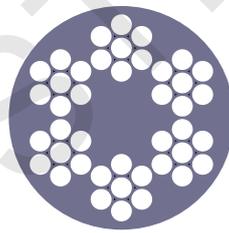
18 X 7 FC



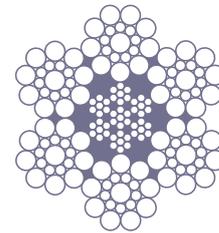
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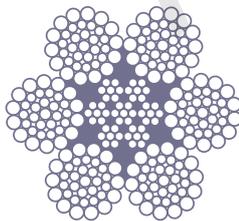
PVC 6 X 19 + FC



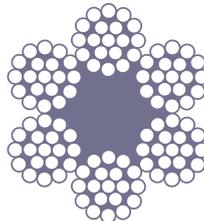
PVC 6 X 7 + FC



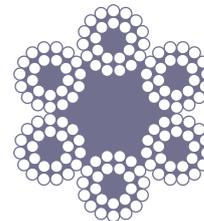
6 X 19S + IWRC



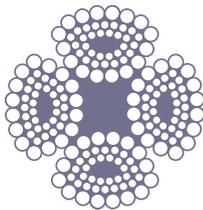
6 X 25Fi + WRC



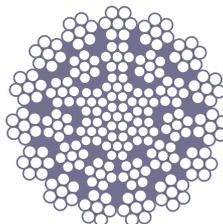
6 X 19 + FC



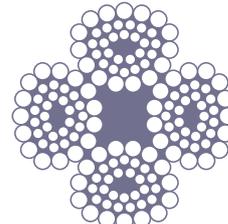
6 X 24 + FC



4V48S + 5FC



35 X 7 WSC



4V39S + 5FC

STAINLESS STEEL WIRE ROPE

Austlift Stainless Steel Wire Ropes are essential for flexible Wire Rope solutions in corrosive environments for the marine, architectural and building industries.

- Sizes from 1.2mm to 16mm 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.
- 1,000 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

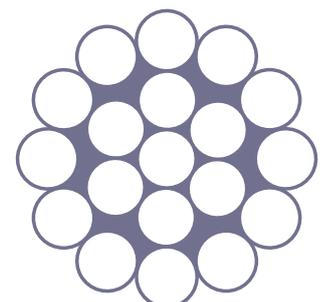
DIAMETER		1X19		7X7		7X19	
		G304	G316	G304	G316	G304	G316
mm	in	kg	kg	kg	kg	kg	kg
1.2	3/64	170	110	122	87	122	87
1.6	1/16	227	215	217	201	217	201
2.0	5/64	363	320	294	277	294	277
2.4	3/32	544	510	417	389	417	389
3.0	1/8	835	776	674	625	700	648
3.2	1/8	953	885	771	713	798	739
4.0	5/32	1497	1395	952	874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

1x19 Construction

Austlift Stainless Steel 1 x19 Wire Ropes have a non-flexible characteristic suitable for all standing rigging, mast stays and applications where the strand rope will not incur bending.

- Sizes from 1.6mm 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.
- 1,000 metres reel lengths are available upon request.

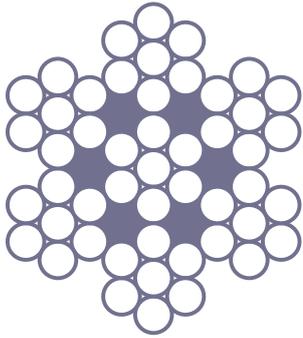
CODE	DIAMETER		WEIGHT	CODE
G304	mm	in	kg/100M	G316
800163	1.6	1/16	1.25	-
-	2.0	5/64	2.07	802203
-	3.2	1/8	5.3	802323
800403	4.0	5/32	7.84	802403
800483	4.8	3/16	11.43	802483



STAINLESS STEEL WIRE ROPE
7x7 Construction

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 1.2mm to 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 metres.
- 1,000 metres reel lengths are available upon request.

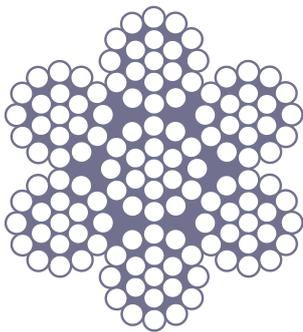


CODE		DIAMETER		WEIGHT	CODE
G304	mm	in	kg/100M	G316	
803123	1.2	3/64	1.65	804123	
803163	1.6	1/16	2.57	804163	
803203	2.0	5/64	4.6	804203	
803243	2.4	3/32	6.6	-	
803253	2.5	3/32	6.7	804253	
803303	3.0	1/8	10.4	804303	
803323	3.2	1/8	12.3	804323	
803403	4.0	5/32	19.2	804403	
803483	4.8	3/16	30	-	
-	5.0	-	30.2	804503	
-	6.0	1/4	43.6	804603	
803803	8.0	5/16	55.3	804803	

7x19 Construction

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 grades of AISI 304 and AISI 316 available.
- Conforms to AS3569. Test Certificate available with each reel batch.
- Commonly Reel lengths are 305 metres.
- 1,000 metres reel lengths are available upon request.



CODE		DIAMETER		WEIGHT	CODE
G304	mm	in	kg/100M	G316	
801504	3.0	1/8	10.3	807303	
801505	3.2	1/8	11.7	807323	
801506	4.0	5/32	18.3	807403	
801507	4.8	3/16	26.8	807483	
801508	5.0	3/16	28.6	807503	
801510	6.0	1/4	41.2	807603	
801512	8.0	5/16	73.2	807803	
801515	10.0	3/8	115	807950	

Austlift Stainless Steel Fitting Products
Please check Page 144



SUPPERGAL WIRE ROPE

Austlift SUPPERGAL Wire Ropes Zinc-5% Aluminum Alloy Products

The steel wire coated with zinc- 5% aluminum alloy has aluminum oxide as grey color on the surface. The color of grey can be applied to identify the product quality and distinguish such wires from the galvanized ones. Compared with the galvanized wire, the zinc-5% aluminum alloy wire has advantages as follows:

- With the same thickness of coating, zinc-5% aluminum alloy wire has better corrosion resistance about 2-6 times than galvanized one. In the humid places such as seaside, the corrosion resistance of zinc-5% aluminum alloy wire proves to be more prominent.
- The surface of zinc-5% aluminum alloy wire is 2-3 times harder than galvanized wire, which can protect the surface from scratch.
- The coating adhesion on the pure iron is stronger and better.
- Sizes from 5mm to 32mm upon request.



PVC COATED WIRE ROPE

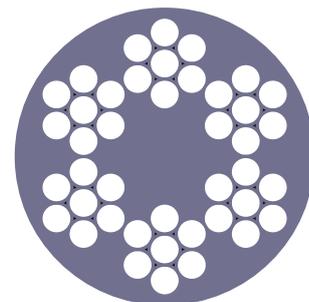
Austlift PVC Coated Galvanized Wire Ropes have a flexible characteristic with polyvinyl chloride UV proof coating suitable for general purpose, Architectural, Marine, Stage/ Theatre or wherever PVC rope is required for the application.

- Sizes available from 2mm - 3mm PVC to 10mm wire – 12mm PVC.
- Normally supplied in blue. Other colour available upon request. Clear, Black, Red, Yellow.
- Construction of 6x7FC and 6x19FC with standard grade of G1570 available.
- Conforms to AS3569, Test Certificate available with each reel batch.
- Reel lengths available 1,000 metres.
- 500 metre available upon request.



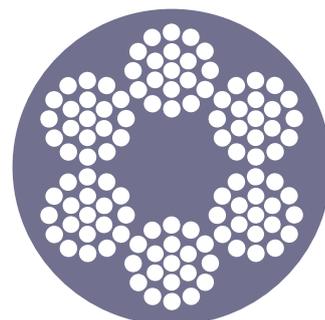
PVC Coated 6x7 + FC G1570

CODE	DIAMETER		Minimum Breaking Strength	WEIGHT
	Core mm	PVC mm	G1570 kN	kg/100M
810020	2	3	2.1	15
810030	3	4	4.7	32
810035	3.5	5	6.2	42
810040	4	6	8.4	57



PVC Coated 6x19 + FC G1570

CODE	DIAMETER		Minimum Breaking Strength	WEIGHT
	Wire mm	PVC mm	G1570 kN	kg/100M
811035	3.5	5.0	6.4	4.6
811040	4.0	6.0	8.5	6.1
811050	5.0	7.0	13.2	9.5
811060	6.0	8.0	19.3	13.7
811080	8.0	10	33.3	18.7

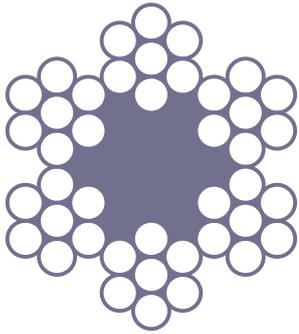


FIBRE CORE GALVANISED WIRE ROPE

6x7 + FC G1570

Austlift 6x7 Fibre Core Galvanized 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.

- Sizes available from 1.6mm to 8mm with standard grade of G1570.
- Supplied reel lengths available are 1,000 metres.
- Conforms to AS3569, Test Certificate available with each reel batch.

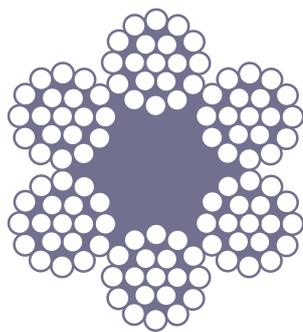


CODE	DIAMETER	Minimum Breaking Strength	MASS
	mm	G1570 kN	kg/100M
867016	1.6	1.3	0.9
867020	2	2.1	1.4
867025	2.5	3.9	2.1
867030	3	4.7	3.2
867035	3.5	5.6	3.9
867040	4	8.4	5.7
867050	5	13.0	8.9
867060	6	18.7	12.9
867080	8	25.5	17.8

6x19 + FC G1570

Austlift 6x19 Fibre Core Galvanized 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.

- Sizes available from 3.0mm to 9mm with standard grade of G1570.
- Supplied reel lengths available are 1,000 metres.
- Conforms to AS3569, Test Certificate available with each reel batch.



CODE	DIAMETER	Minimum Breaking Strength	MASS
	mm	G1570 kN	kg/100M
869030	3.0	4.26	3.1
869035	3.5	5.8	4.2
869040	4	7.7	5.5
869050	5	12.0	8.6
869060	6	17.6	12.4
869080	8	30.9	22.1
869090	9	39.1	28.0

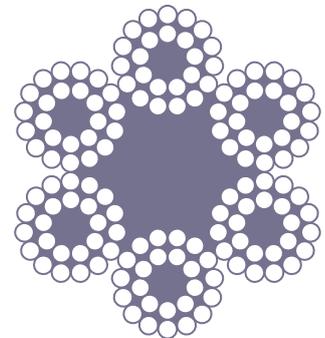
FIBRE CORE GALVANISED WIRE ROPE

6x24+FC G1570

Austlift 6x24 Fibre Core Galvanized 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 6mm to 24mm with standard grade of G1570.
- Supplied reel lengths available are 500 metre and 1,000 metres.
- Conforms to AS3569, Test Certificate available with each reel batch.

CODE	DIAMETER	Minimum Breaking Strength	MASS
1000M Reel	mm	G1570 kN	kg/100M
864060	6	15.8	11.4
864080	8	28.2	20.4
864100	10	44.0	31.8
864120	12	63.3	45.8
864130	13	74.3	53.8
864140	14	86.2	62.4
864160	16	113	81.5
864180	18	143	103
864200	20	176	127
864220	22	213	154
864240	24	253	183



CODE	DIAMETER	Minimum Breaking Strength	MASS
500M Reel	mm	G1570 kN	kg/100M
864225	22	213	154
864245	24	253	183

* Some size 1000M Reel available, please check with us.

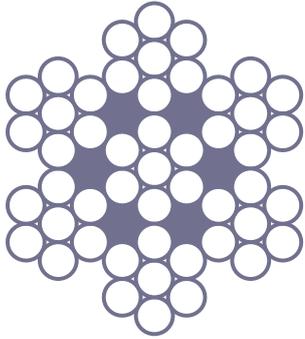


**When you choose Austlift™
You choose quality.**

STEEL CORE GALVANISED WIRE ROPE
7x7 WSC (G1570 & G2070)

Austlift 7x7 Steel Core galvanized 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.

- Sizes available from 1.6mm to 10mm with standard grade of G1570 and G2070.
- Supplied reel lengths available are 1,000 , 2,000 and 3,000 metres.
- Conforms to AS3569, Test Certificate available with each reel batch.

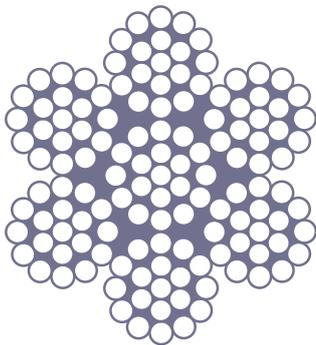

Irrigation Cable

CODE	GRADE	DIAMETER	Minimum Breaking Strength	MASS
		mm	kN	kg/100M
877016	G1570	1.6	1.73	1.26
877020	G1570	2.0	2.3	1.6
877025	G1570	2.5	3.14	3.0
877025N	G1770	2.5	3.54	3.0
877030	G1570	3.0	5.2	3.6
877040	G1570	4	9.2	6.3
878050	G2070	5	18.8	9.9
878060	G2070	6	27	14.3
878070	G2070	7	37	19.7
878080	G2070	8	47.4	25.2
878090	G2070	9	60	32
878100	G2070	10	74	39.2

7x19 WSC (G2070)

Austlift 7x19 Steel Core galvanized 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.

- Sizes available from 3.0mm to 12mm with standard grade of G2070.
- Supplied reel lengths available are 1,000 metres.
- Conforms to AS3569, Test Certificate available with each reel batch.


Aircraft Cable

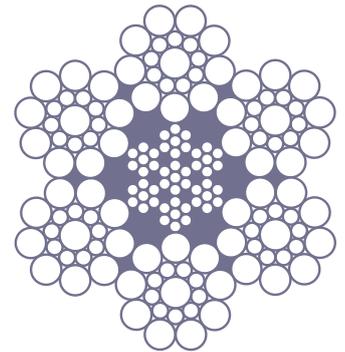
CODE	DIAMETER	Minimum Breaking Strength	MASS
	mm	G2070 kN	kg/100M
879030	3.0	7.8	3.68
879032	3.2	8.9	4.2
879035	3.5	8.4	4.6
879040	4	11.2	6.1
879050	5	17.4	9.5
879060	6	25.4	13.7
879080	8	43.9	24.4
879100	10	68.6	38.1
879120	12	98.9	54.8



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.

- Sizes available from 12mm to 28mm with standard grade of 1770 and 2070.
- Black or Galvanized finish in stock.
- Supplied reel lengths available are 500 metres and 1,000 metres.
- Conforms to AS3569, Test Certificate available with each reel batch.

	DIA.	Minimum Breaking Strength	MASS
Black	mm	G1770 kN	kg/100M
822120	12	90.8	60.2
822130**	13	106	70.65
822140**	14	124	82.0
822160**	16	161	107
822185	18	204	129.5
822205	20	252	160
822225	22	305	193.5
822265	26	426	270.5
822285	28	494	313.5

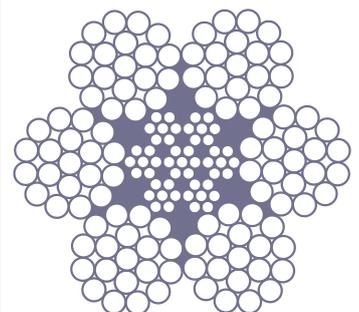


**821140 Gal 14mm, 821160 Gal 16mm deleted stock line available until sold out.

Austlift 6x25 Steel Core Wire Ropes have a flexible characteristic suitable for general engineering, hoisting, slings or general purpose wherever flexible rope is required for the application.

- Sizes available from 9mm to 26mm with standard grade of 1770.
- Supplied reel lengths available are 500 metres and 1,000 metres.
- Conforms to AS3569, Test Certificate available with each reel batch.
- Galvanized finish.

CODE	DIA.	Minimum Breaking Strength	MASS
Gal*	mm	G1770 kN	kg/100M
826090	9	51.1	34.8
826100	10	63.1	43
826110	11	76.3	52
826165	16	161	110
826185	18	204	138
826205	20	252	167
826225	22	305	202
826265	26	426	283

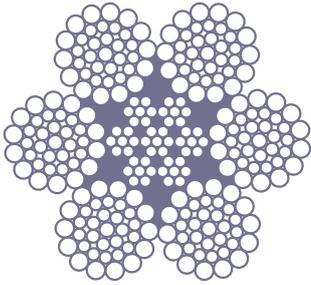


*Limited size available in Black. Please check with us.

6 x36SW + IWRC

Austlift 6x36 Steel Core Wire Ropes have a flexible characteristic and suitable for engineering, slings, derrick cranes or general purpose uses wherever flexible rope is required for the application.

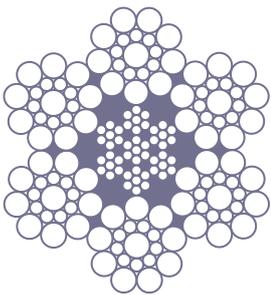
- Sizes available from 14mm to 32mm with standard grade of 1770 and 2070 available.
- Black/Gal finish.
- Supplied reel lengths available are 500 metres and 1,000 metres.
- Conforms to AS3569, Test Certificate available with each reel batch.



CODE		DIA. mm	Minimum Breaking Strength 1770Mpa KN	MASS KG/100M
Black	Gal			
837125	836125	12	90.8	60.2
837135	836135	13	107	70.7
837145	836145	14	124	84.3
837165	836165	16	161	110
837185	836185	18	204	138
837205	836205	20	252	167
837225	836225	22	305	202
837245	836245	24	363	240.5
837265	836265	26	426	282.2
837285 (837286 LHOL)	-	28	494	327.3
837325	-	32	646	427.5

G2070MPa

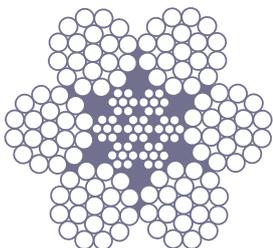
GALVANISED WINCH ROPES



6x19S + IWRC RHOL

Austlift 6x19s & 6x25fi Steel Core Wire Rope have a high strength characteristic and suitable for Wire Rope Hoist or winching purposes uses wherever high capacity rope is required for the application.

- Sizes available are 8.3mm, 11.4mm and 16.4mm
- Galvanized finish, standard grade of 2070 available.
- Supplied reel lengths available are 500 metres and 1,000 metres.
- Conforms to AS3569, Test Certificate available with each reel batch.



6x25Fi + IWRC RHOL

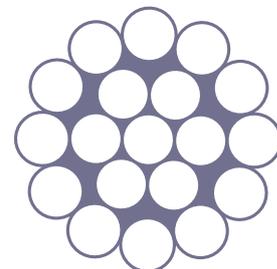
CODE	DIA.	CONSTRUCTION	Minimum Breaking Strength	MASS
	mm		2070 MPa kN	kg/100M
821085	8.3	6 X 19S RHOL WRC	47	24.4
825110	11.4	6 X 25FW RHOL WRC	89	50.6
825165	16.4	6 X 25FW RHOL WRC	188	107

CLASS A GALVANISED STEEL WIRE STRANDS

Strand 1X19

Austlift 1x19 Galvanized Strand Class A Wire Ropes have a Non-flexible characteristic and suitable for guy wires, architectural rigging, support ropes or uses wherever non-flexible rope is required for the application.

- Sizes from 8mm to 20mm with standard grade G1570 available.
- Class A Galvanized finish for optimum corrosion resistance.
- Supplied reel lengths available are 500 metres and 1,000 metres.
- Conforms to AS 2841, Test Certificate available with each reel.



CODE	DIAMETER	Minimum Breaking Strength	MASS
	mm	1570MPa	kg/100M
891080	8	56.3	32.2
891100	10	88	50.4
891120*	12	126	72.6
891140	14	172	98.8
891165*	16	210	129
891185*	18	265	163
891205*	20	368	212

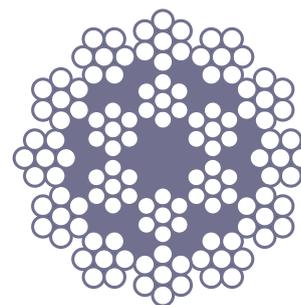
*Non- stocked item.

CRANE ROPES

18x7 FC Wire Rope

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

- Sizes available from 6mm to 19mm with standard grade of 2070.
- Black and Galvanized finish.
- Supplied reel lengths available are 500 metres and 1,000 metres.
- Conforms to AS3569, Test Certificate available with each reel batch.

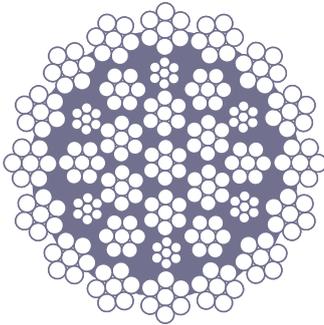


Non Rotating

CODE	DIAMETER	Minimum Breaking Strength	MASS
500M	mm	2070 kN	kg/100M
887065	6	23.7	13.8
887085	8	42.1	24.5
887095	9	53.4	31
887105	10	66.1	38.3
887115	11	79.8	46.3
887125	12	95	55.1
887135	13	111	64.7
887145	14	130	75
887165	16	168	98

CRANE ROPES

35Wx7 WSC Wire Rope



Non Rotating

Austlift 35Wx7 non-rotating Wire Ropes have a Non-spin characteristic suitable for lifting rope on cranes.

- Sizes available from 12mm to 24mm with standard grade of 2070.
- Black and Galvanized finish.
- Supplied reel lengths available are 500 metres and 1,000 metres.
- Conforms to AS3569, Test Certificate available with each reel batch.

CODE	DIAMETER	Minimum Breaking Strength	MASS
500M	mm	2070 kN	kg/100M
888125	12	107.7	66.2
888135	13	126	77.7
888145	14	145	90.1
888165	16	191	117.8
888185	18	241	149
888195	19	269	166
888205	20	297	184
888225	22	361	222.6
888245	24	428	265

WIRE ROPE INTRODUCTION

CORRECT STORAGE AND HANDLING

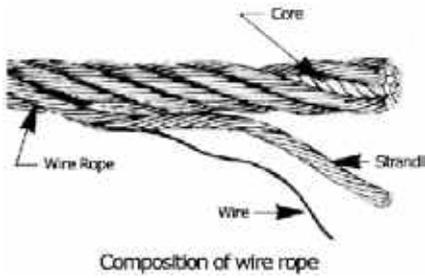
Store wire away from moisture and not directly on the floor. When wire is to be stored for a long period, reels should be turned over as lubricants can settle — especially in hot climates. Check lubricant when using wire that has been stored. Add new lubricant if necessary.

CORRECT STORAGE AND HANDLING			
Correct Method of handling Wire Rope			
Incorrect handling of Wire Rope			



WIRE ROPE INTRODUCTION

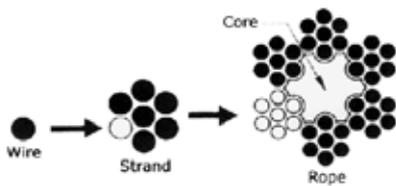
GENERAL DESCRIPTION



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.

WIRE ROPE CONSTRUCTION

The main components of a Wire Rope are shown below.

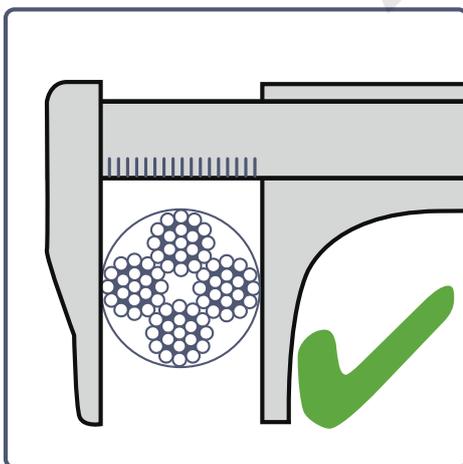


In the above example, each individual wire is arranged around a central wire to form a 7-wire strand. Six of these strands are formed around a central core to make a Wire Rope. The rope is specified as 6x7 (6/1) - i.e. six strands each of seven wires.

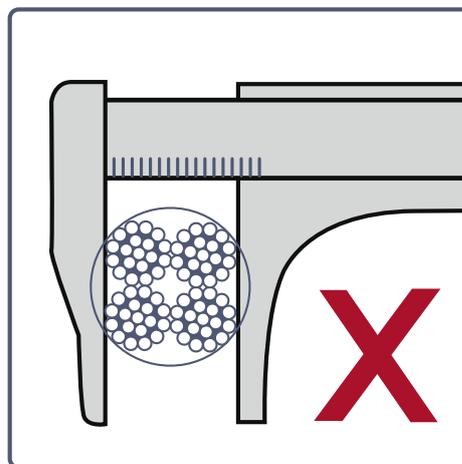
The size and number of wires in each strand, as well as the size and number of strands in the rope greatly affect the characteristics of the rope. In general, a large number of small-size wires and strands produce a flexible rope with good resistance to bending fatigue. The rope construction is also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

HOW TO MEASURE WIRE ROPE

Ropes are referred to by a diameter size. The correct way to measure Wire Rope:



Correct Method



Incorrect Method



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.

Galvanized Wire

Wire which has been zinc coated by one of the permissible processes. The quality of the galvanized coating is defined by its weight, 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.

Langs 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.