



INDUSTRIES LTD.

www.wescovan.com

POWERSTRAND WIRE ROPE



Head Office: Unit 1, 9663-199A Street Langley BC V1M 2X7

Phone: 604 881 3000 Fax: 604 881 3010

Email: info@wescovan.com

Rigging Centre: 2437 Beta Avenue Burnaby BC V5C 5N1

Phone: 604 292 1220 Fax: 604 292 1222

Email: burnaby@wescovan.com

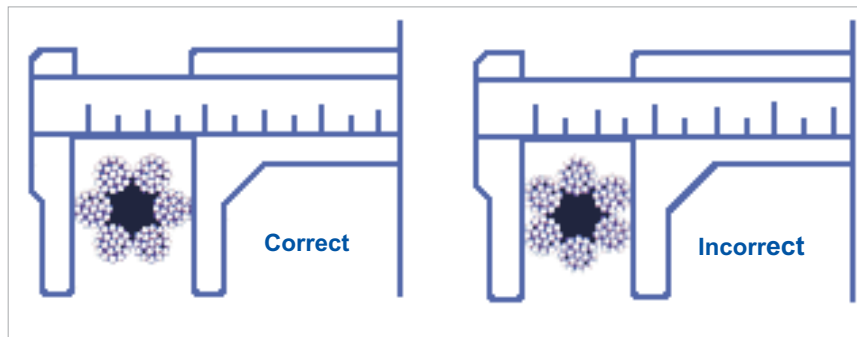
WIRE ROPE

All wire rope is manufactured with three basic components: Wires, Strand and Core. Following is a description on the essential information required for ordering wire rope.



DIAMETER

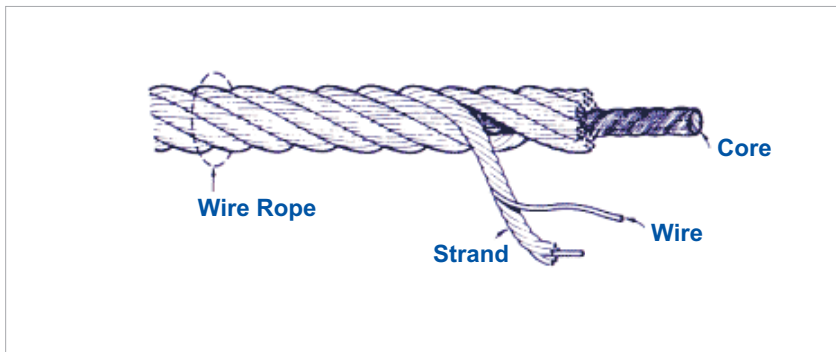
Nominal Diameter is always measured from its widest point as per diagram. The diameter of wire rope is manufactured with a tolerance of 0% to plus 5%.



CONSTRUCTION

Wire rope is manufactured with individual wires which are helically laid together to form a strand. It is defined by the number of strands per rope, and number of wires in each strand. For instance a 6 x 26 wire rope denotes 6 stranded rope, with each strand containing 26 wires. The number of strands and wires in a wire rope will influence the flexibility of the wire rope. Generally the more wires in the rope the greater the flexibility, however the smaller the wires the less abrasion resistance.





CORE

Wire ropes are supplied with either a fibre core or steel core. The core provides the stability to the outside strands and several different types are available:

FIBRE CORE: A fibre core is generally manufactured with a natural material such as Sisal, or a synthetic fibre such as polypropylene. Fibre cores are generally used for ropes where flexibility in handling is required. The fibre core is impregnated with lubricant before manufacture, it then continues as an internal lubricator during the operation of the rope. Fibre core ropes are inadequate where they are subject to crushing on small drums and sheaves.

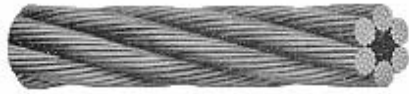


STEEL CORE: A steel core can be either Independent Wire Rope Core (IWRC) or Wire Strand Core (WSC). IWRC is a small independent core and is commonly manufactured from seven strands, and WSC which is occasionally used, is manufactured from either seven or nineteen wires. Steel cores are used to add strength to the rope and to provide resistance to drum crushing.

LAY

The spirals or helical twist of the wires and strands is referred to as the lay.

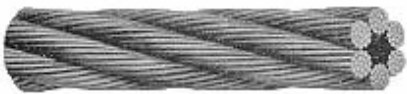
REGULAR LAY: Is used to describe rope with wires in a strand that are laid in a direction opposite to the direction of the formed strands. Due to the shorter length of exposed outer wires a regular lay rope is less subject to failure from crushing and distortion.



LANG LAY: Describes ropes in which both the direction of the wires and strands are the same. A lang lay rope has greater flexibility and abrasion resistance because of the longer length of exposed outer wires. However, great care should be used when recommending and handling lang lay rope.



RIGHT OR LEFT LAY: Refers to the direction in which the strands twist or rotate around the wire. Ropes in a clockwise direction are right hand lay and ropes in left hand lay are laid in an anti-clockwise direction.



Right Hand Regular Lay



Left Hand Regular Lay



NOTE: WIRE ROPES ARE SUPPLIED AS RIGHT HAND REGULAR LAY UNLESS OTHERWISE SPECIFIED.

GRADE

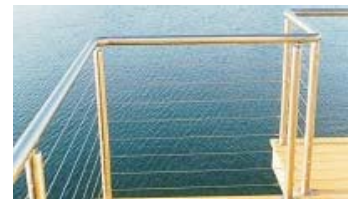
Wire rope can be supplied in several different grades. The grade of wire rope affects the ultimate breaking strength of the wire rope but will also influence the life of the rope. Common grades available are Improved Plow Steel (IPS), Extra Improved Plow Steel (EIPS) and Extra Extra Improved Plow Steel (EEIPS). EIPS is the most common manufactured and supplied grade today.



Wire ropes are now also available as Compacted or Swage ropes. The compaction of wire ropes increases the metallic area of the rope allowing for a higher breaking strength as well as improved life from increased drum and abrasion resistance. Swage ropes are designed to give superior strength and abrasion resistance and is generally suited to logging industry, and it is not normally suited to regular crane use because the rope deteriorates from the inside out.

FINISH

Wire Ropes can be specified as either Bright, Galvanized or Stainless Steel. Most running ropes are supplied Bright finish unless a corrosive or harsh environment is present, and standing rope are usually galvanized. Stainless steel is commonly used in marine environments.



Wire ropes are lubricated at time of manufacture. The lubrication helps reduce friction between wires and strands, and the friction between the rope and drum or sheave. In addition the lubrication retards corrosion and inhibits possible rotting of the fibre core. Upon customers requests, additional lubrication can be supplied at time of order, or Wesco Industries can supply wire rope lubricant which can be applied during the life of the rope.



Wire ropes can also be supplied with plastic coatings. Plastic coatings are extruded onto a range of wire rope products, and is available in PVC or Nylon coating.

With the increase in technologies wire ropes can now be supplied with plastic layers internally. The plastic layer between the steel core and the outer strands inhibits inter strand wear, seals the lubricant inside the core, keeps water and abrasive materials from penetrating the rope and reduces the incidence of birdcaging.



ROTATING OR ROTATION RESISTANT?

Wire rope will tend to spin or rotate under load. Therefore it is important to determine if a rotation resistant wire rope is required. Rotation resistant wire ropes are manufactured to allow the rotational force of the outer strands to partially counteract the rotational forces of the inner strands. Single part and some multi part operations must use rotation resistant wire ropes when lifting unguided loads.



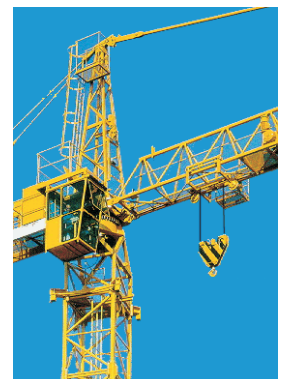
COMMON ABBREVIATIONS

RHRL Right Hand Regular Lay
LHRL Left Hand Regular Lay
RHLL Right Hand Langs Lay
LHLL Left Hand Langs Lay
RHAL Right Hand Alternate Lay
NR Non Rotating
FC/HC Fibre Core/Hemp Core
IWRC Independent Wire Rope Core
IPS Improved Plow Steel
EIPS Extra Improved Plow Steel
EEIPSE Extra Extra Improved Plow Steel



GENERAL ROPE RECOMMENDATIONS

APPLICATIONS	ROPE RECOMMENDATION
CRANE	
TOWER HOIST ROPE	35 X 7
LUFF ROPE	6 X 19 CLASS, 6 X 36 CLASS, 6 X 26 COMPACTED
TROLLEY ROPE	6 X 19 CLASS, 6 X 36 CLASS, 6 X 26 COMPACTED
DERRICKING	6 X 19 CLASS, 6 X 36 CLASS, 6 X 26 COMPACTED
MOBILE MAIN	19 X 7, 35 X 7
AUXILIARY	19 X 7, 35 X 7
BOOM HOIST	6 X 19 CLASS, 6 X 36 CLASS
OVERHEAD 1 TO 3 FALLS	35 X 7
4 FALLS OR MORE	6 X 19 CLASS, 6 X 36 CLASS
EUROPEAN	8 X 19, 8 X 36 METRIC
SHIP TO SHORE MAIN HOIST	6 X 19 CLASS, 6 X 36 CLASS, 6 X 26 COMPACTED
BOOM HOIST	6 X 19 CLASS, 6 X 36 CLASS, 6 X 26 COMPACTED
TROLLEY	6 X 19 CLASS, 6 X 36 CLASS
GRAB CLOSING	6 X 19 CLASS, 6 X 36 CLASS, 6 X 26 COMPACTED
PILING	
MAIN HOIST	19 X 7, 35 X 7, 4 X 39
PILE HANDLING	6 X 19 CLASS, 6 X 36 CLASS, 6 X 26 COMPACTED
LOGGING	
CHOKERS	6 X 19 CLASS, 6 X 26 COMPACTED OR SWAGED
STRAW LINES	6 X 19
YARDING	6 X 26 SWAGED OR COMPACTED
SLINGS	
CHOKERS	6 X 19 CLASS, 6 X 36 CLASS, 7 X 7 X 7, 7 X 7 X 19
SHIPPING	
MOORING	6 X 24, 6 X 36 CLASS
CRANES	6 X 36 CLASS, 19 X 7, 35 X 7, 4 X 39
LASHING	6 X 12, 6 X 24
RIGGING	7 X 7, 7 X 19
WINCHES	
GENERAL SMALL	7 X 19
CONSTRUCTION	6 X 19 CLASS, 6 X 36 CLASS



POWERSTRAND WIRE ROPE SLINGS

Wesco Industries can manufacture and supply various types of wire rope slings. The most common type of eye termination on a wire rope sling is a tapered pressed sleeve applied over a Flemish roll splice (Flemish eye). Eye terminations can also be supplied using Carbon Steel Sleeves, Aluminum Sleeves and Handspliced Eyes.



Powerstrand slings can be manufactured with or without thimbles depending on the intended use, and almost any arrangement of hooks, links or shackles can be ordered. To order Powerstrand Wire Rope Slings please specify:



1. Type,
2. Working Load Limit (weight to be lifted),
3. Diameter,
4. Construction,
5. Length,
6. Fittings.

Following Working Load Limits are calculated on the use of 6 x 19 & 6 x 36 classification Regular Right Lay Extra Improved Plow Steel with Independent Wire Rope Core using a 5:1 Safety Factor. The WLL are calculated using a Flemish Eye Splice. Slings can be supplied with a fibre core or different end terminations, however there is a reduction in the WLL.



SINGLE LEG WIRE ROPE ASSEMBLIES

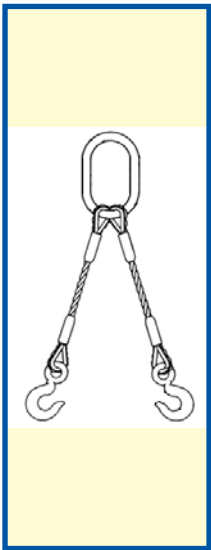


Diameter Inches	Working Load Limit in Pounds		
	Vertical	Choker	Basket
1/4	1,300	960	2,600
5/16	2,000	1,480	4,000
3/8	2,800	2,200	5,800
1/2	5,000	3,800	10,200
5/8	7,800	5,800	15,600
3/4	11,200	8,200	22,000
7/8	15,200	11,200	30,000
1	19,600	14,400	40,000
1 1/8	24,000	18,200	48,000
1 1/4	30,000	22,000	60,000
1 3/8	36,000	26,000	72,000
1 1/2	42,000	32,000	84,000
1 5/8	48,000	36,000	98,000
1 3/4	56,000	42,000	114,000
1 7/8	64,000	48,000	128,000
2	74,000	56,000	146,000

- Rated Capacities basket hitch based on D/d ratio of 25.
- Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.
- Rated Capacities based on design factor of 5:1.
- Horizontal Sling angles less than 30 degrees shall not be used.

WARNING: DO NOT EXCEED WORKING LOAD LIMIT

POWERSTRAND 2 LEG BRIDLE SLINGS

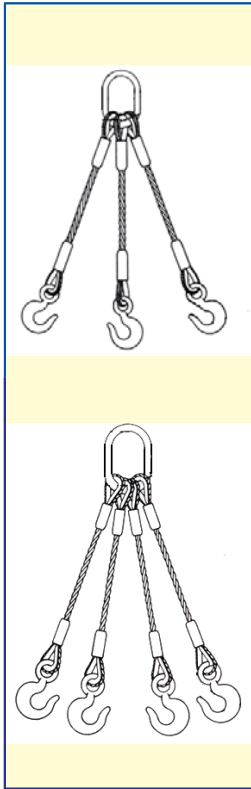


Diameter Inches	WLL 2 Leg Bridle in Pounds		
	60° to Load	45° to Load	30° to Load
1/4	2,200	1,820	1,300
5/16	3,400	2,800	2,000
3/8	5,000	4,000	2,800
1/2	8,800	7,200	5,000
5/8	13,600	11,000	7,800
3/4	19,400	15,800	11,200
7/8	26,000	22,000	15,200
1	34,000	28,000	19,600
1 1/8	42,000	34,000	24,000
1 1/4	52,000	42,000	30,000
1 3/8	62,000	50,000	36,000
1 1/2	74,000	60,000	42,000
1 5/8	84,000	70,000	48,000
1 3/4	98,000	80,000	56,000
1 7/8	112,000	92,000	64,000
2	126,000	104,000	74,000

- Rated Capacities basket hitch based on D/d ratio of 25.
- Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.
- Rated Capacities based on design factor of 5:1.
- Horizontal Sling angles less than 30 degrees shall not be used.

WARNING: DO NOT EXCEED WORKING LOAD LIMIT

POWERSTRAND 3 & 4 LEG BRIDLE SLINGS



Diameter Inches	WLL 3 & 4 Leg Bridle in Pounds		
	60° to Load	45° to Load	30° to Load
1/4	3,400	2,800	1,940
5/16	5,200	4,200	3,000
3/8	7,400	6,000	4,400
1/2	13,200	10,800	7,600
5/8	20,000	16,600	11,800
3/4	30,000	24,000	16,800
7/8	40,000	32,000	22,000
1	52,000	42,000	30,000
1 1/8	62,000	52,000	36,000
1 1/4	76,000	62,000	44,000
1 3/8	92,000	76,000	54,000
1 1/2	110,000	90,000	64,000
1 5/8	126,000	104,000	74,000
1 3/4	148,000	120,000	84,000
1 7/8	168,000	136,000	96,000
2	190,000	156,000	110,000

- Rated Capacities basket hitch based on D/d ratio of 25.
- Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.
- Rated Capacities based on design factor of 5:1.
- Horizontal Sling angles less than 30 degrees shall not be used.

WARNING: DO NOT EXCEED WORKING LOAD LIMIT

POWERSTRAND WIRE ROPE SLING DIMENSIONS

Diameter Inches	Minimum Sling Length	Standard Soft Eye in Inches	
		Length	Width
1/4	1'6"	4	2
5/16	1'8"	5	2.5
3/8	2'	6	3
1/2	2'6"	8	4
5/8	3'	10	5
3/4	3'6"	12	6
7/8	4'	14	7
1	4'6"	16	8
1 1/8	5'	18	9
1 1/4	5'6"	20	10
1 3/8	6'	22	11
1 1/2	7'	24	12
1 5/8	8'	26	13
1 3/4	8'	28	14
1 7/8	9'	30	15
2	9'	32	16

WARNING !

Wire Rope WILL FAIL if worn-out, overloaded, misused, damaged, improperly maintained or abused.

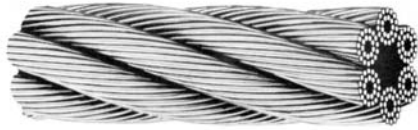
Wire Rope failure may cause serious injury or death!

Protect yourself and others:

- ALWAYS INSPECT wire rope for WEAR, DAMAGE or ABUSE BEFORE USE.
- NEVER USE Wire Rope that is WORN-OUT, DAMAGED or ABUSED.
- NEVER OVERLOAD a Wire Rope.
- INFORM YOURSELF: Read and understand manufacture's literature or "Wire Rope and Wire Rope Sling Safety Bulletin"

REFER TO APPLICABLE CODES, STANDARDS and REGULATIONS for INSPECTION REQUIREMENTS and REMOVAL CRITERIA.

Powerstrand 6 x 24 EIPS Class Galvanized Wire Rope

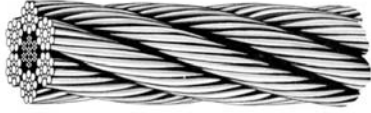
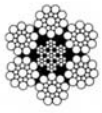


Main Applications: A flexible fibre core Marine Rope for Cargo Runners, Mooring, Tow Lines, Slings, Lashing and Fishing.

Diameter Inches	Stock Code	Minimum Breaking Strength - Pounds	Weight Per 100 Feet - Pounds
1/4	W62408D1	4,980	9
5/16	W62410D1	7,620	14
3/8	W62412D1	9,540	20
7/16	W62414D1	14,110	27
1/2	W62416D1	19,320	35
9/16	W62418D1	24,200	44
5/8	W62420D1	28,600	54
3/4	W62424D1	40,900	78
7/8	W62428D1	55,400	106
1	W62432D1	75,400	138
1 1/8	W62436D1	90,640	175
1 1/4	W62440D1	116,600	216



Powerstrand 6 x 19 EIPS Classification Wire Rope



← 6 x 19 Seale RRL IWRC

6 x 26 Warrington Seale RRL IWRC →



Main Applications: An Independent Wire Rope Core rope which is wear and crush resistant but not very flexible, suitable for Sling Rope, Winch Lines, Boom Pendants, Boom Hoist Ropes, Suspension Cables, Fishing and Logging.

Diameter Inches	6x19 & 6x26 EIPS IWRC BLACK			6x19 & 6x26 EIPS IWRC GALVANIZED		
	Stock Code	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds	Stock Code	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
1/4	W61908A1	6,880	12	W61908B1	6,190	12
5/16	W61910A1	10,540	18	W61910B1	9,480	18
3/8	W61912A1	15,100	26	W61912B1	13,590	26
7/16	W61914A1	20,400	35	W61914B1	18,360	35
1/2	W62616A1	26,600	46	W61916B1	23,940	46
9/16	W62618A1	33,600	59	W61918B1	30,240	59
5/8	W62620A1	41,200	72	W61920B1	37,080	72
11/16	W62622A1	54,800	85	W62622B1	49,394	85
3/4	W62624A1	58,800	104	W62624B1	52,920	104
13/16	W62626A1	76,100	119	W62626B1	68,554	119
7/8	W62628A1	79,600	142	W62628B1	71,640	142
15/16	W62630A1	91,500	159	W62630B1	82,350	159
1	W62632A1	103,400	185	W62632B1	93,060	185
1 1/16	W62634A1	123,800	202	W62634B1	111,507	202
1 1/8	W62636A1	130,000	234	W62636B1	117,000	234
1 1/4	W62640A1	159,800	289	W62640B1	143,820	289
1 3/8	W62644A1	192,000	350	W62644B1	172,800	350
1 1/2	W62648A1	228,000	416	W62648B1	205,200	416
1 5/8	W62652A1	264,000	488	W62652B1	237,600	488
1 3/4	W62656A1	306,000	567	W62656B1	275,400	567
1 7/8	W62660A1	348,000	650	W62660B1	313,200	650
2	W62664A1	396,000	739	W62664B1	356,400	739

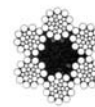
*Includes all constructions having 17 to 26 wires per strand.

Powerstrand 6 x 19 EIPS Classification Wire Rope



← 6 x 19 Warrington Seale RRL Fibre Core

6 x 26 Warrington Seale RRL Fibre Core →



Main Applications: A Fibre Core rope which is wear resistant but not very flexible, suitable for Sling Rope, Winch Lines, Boom Hoist Ropes, Fishing and Marine.

Diameter Inches	6x19 & 6x26 EIPS FIBRE CORE BLACK			6x19& 6x26 EIPS FIBRE CORE GALVANIZED		
	Stock Code	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds	Stock Code	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
1/4	W61908C1	6,040	11	W61908D1	5,436	11
5/16	W61910C1	9,380	16	W61910D1	8,442	16
3/8	W61912C1	13,420	24	W61912D1	12,078	24
7/16	W61914C1	18,180	32	W61914D1	16,362	32
1/2	W61916C1	23,600	42	W61916D1	21,240	42
9/16	W62618C1	29,800	53	W61918D1	26,820	53
5/8	W62620C1	36,600	66	W61920D1	32,940	66
3/4	W62624C1	52,400	95	W61924D1	47,160	95
7/8	W62628C1	70,800	129	W61928D1	63,720	129
1	W62632C1	92,000	168	W62632D1	82,800	168
1 1/8	W62636C1	115,800	213	W62636D1	104,220	213
1 1/4	W62640C1	142,000	263	W62640D1	127,800	263
1 3/8	W62644C1	170,800	318	W62644D1	153,720	318
1 1/2	W62648C1	202,000	378	W62648D1	181,800	378
1 5/8	W62652C1	236,000	444	W62652D1	212,400	444
1 3/4	W62656C1	272,000	515	W62656D1	244,800	515
1 7/8	W62660C1	310,000	591	W62660D1	279,000	591
2	W62664C1	352,000	672	W62664D1	316,800	672

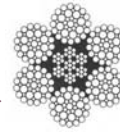
*Includes all constructions having 17 to 26 wires per strand.

Powerstrand 6 x 36 EIPS Classification Wire Rope



← 6 x 36 Seale Filler Wire RRL IWRC

6 x 41 Seale Filler Wire RRL IWRC →

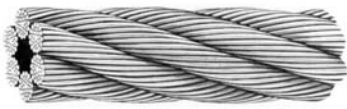


Main Applications: An Independent Wire Rope Core rope which is flexible, but not as crush resistant as 6 x 19. Suitable for Winch Lines, Boom Hoist Ropes, Auxiliary Ropes, Overhead Crane Ropes, Sling Rope, Piling, Mooring, Towing and Slipways.

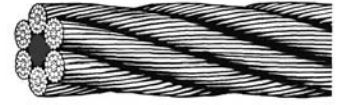
Diameter Inches	6x36 & 6x41 EIPS CLASS IWRC BLACK			6x36 & 6x41 EIPS IWRC GALVANIZED		
	Stock Code	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds	Stock Code	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
1/4	W63608A1	6,880	12	W63608B1	6,190	12
5/16	W63610A1	10,540	18	W63610B1	9,486	18
3/8	W63612A1	15,100	26	W63612B1	13,590	26
7/16	W63614A1	20,400	35	W63614B1	18,360	35
1/2	W63616A1	26,600	46	W63616B1	23,940	46
9/16	W63618A1	33,600	59	W63618B1	30,240	59
5/8	W63620A1	41,200	72	W63620B1	37,080	72
3/4	W63624A1	58,800	104	W63624B1	52,920	104
7/8	W63628A1	79,600	142	W63628B1	71,640	142
1	W63632A1	103,400	185	W63632B1	93,060	185
1 1/8	W63636A1	130,000	234	W63636B1	117,000	234
1 1/4	W63640A1	159,800	289	W63640B1	143,800	289
1 3/8	W63644A1	192,000	350	W63644B1	172,800	350
1 1/2	W63648A1	228,000	416	W63648B1	205,200	416
1 5/8	W63652A1	264,000	488	W63652B1	237,600	488
1 3/4	W64156A1	306,000	567	W64156B1	275,400	567
1 7/8	W64160A1	348,000	650	W64160B1	313,200	650
2	W64164A1	396,000	739	W64164B1	356,400	739

*Includes all constructions having 27 to 49 wires per strand.

Powerstrand 6 x 36 EIPS Classification Wire Rope



← 6 x 36 Warrington Seale RRL
Fibre Core



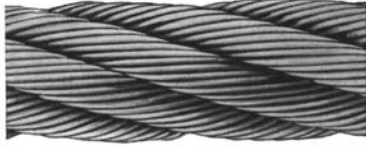
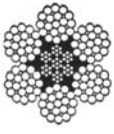
6 x 41 Seale Filler Wire RRL →
Fibre Core

Main Applications: A Fibre Core Rope which is flexible but not as crush resistant as 6 x 19. Suitable for Sling Rope, Auxiliary Ropes, Overhead Crane Rope, Towing and Fishing.

Diameter Inches	6x36 & 6x41 EIPS FIBRE CORE BLACK			6x36& 6x41 EIPS FIBRE CORE GALVANIZED		
	Stock Code	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds	Stock Code	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
1/4	W63608C1	6,040	11	W63608D1	5,436	11
5/16	W63610C1	9,380	16	W63610D1	8,442	16
3/8	W63612C1	13,420	24	W63612D1	12,078	24
7/16	W63614C1	18,180	32	W63614D1	16,362	32
1/2	W63616C1	23,600	42	W63616D1	21,240	42
9/16	W63618C1	29,800	53	W63618D1	26,820	53
5/8	W63620C1	36,600	66	W63620D1	32,940	66
3/4	W63624C1	52,400	95	W63624D1	47,160	95
7/8	W63628C1	70,800	129	W63628D1	63,720	129
1	W63632C1	92,000	168	W63632D1	82,800	168
1 1/8	W63636C1	115,800	213	W63636D1	104,220	213
1 1/4	W63640C1	142,000	263	W63640D1	127,800	263
1 3/8	W63644C1	170,800	318	W63644D1	153,720	318
1 1/2	W63648C1	202,000	378	W63648D1	181,800	378
1 5/8	W63652C1	236,000	444	W63652D1	212,400	444
1 3/4	W63656C1	272,000	515	W63656D1	244,800	515
1 7/8	W63660C1	310,000	591	W63660D1	279,000	591
2	W63664C1	352,000	672	W63664D1	316,800	672

*Includes all constructions having 27 to 49 wires per strand.

Powerstrand 6 x 19 Stainless Steel Type 304 Wire Rope



Main Applications: A Wire Core Rope which is wear resistant but not very flexible, suitable for Fishing and Marine Industries as Anchor lines, Winch Lines and Slings.

Diameter Inches	Stock Code	Minimum Breaking Strength - Pounds	Weight Per 100 Feet - Pounds
7/16	W61914S1	16,300	35
1/2	W61916S1	22,800	46
9/16	W61918S1	28,500	59
5/8	W61920S1	35,000	72
3/4	W61924S1	49,600	104



Powerstrand 6 x 36 Metric Wire Rope



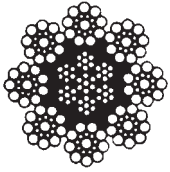
6 x 36 Seale Filler Wire RRL IWRC

Main Applications: Metric 6 Strand Wire Rope intended for use mainly with European Overhead Cranes and ship deck cranes.

Diameter Millimeter	Stock Code	Minimum Breaking Strength - Pounds	Weight Per 100 Feet - Pounds
10	W63612AM	15,200	27
28	W63636BM*	122,920	234

* Stocked in Galvanized Left & Right Hand Regular Lay.

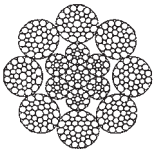
Powerstrand 8 x 19 Metric Wire Rope



Main Applications: Metric 8 Strand Wire Rope is intended for use mainly with European Overhead Cranes. Powerstrand 8 Strand Wire Rope is **NOT** Rotation Resistant and should **NOT** be attached to a swivel.

Diameter Millimeter	Stock Code	Minimum Breaking Strength - Pounds	Weight Per 100 Feet - Pounds
9	W81910AM	11,900	17

Powerstrand 8 x 36 Metric Wire Rope



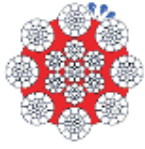
Main Applications: Metric 8 Strand Wire Rope is intended for use mainly with European Overhead Cranes. Powerstrand 8 Strand Wire Rope is **NOT** Rotation Resistant and should **NOT** be attached to a swivel.

Diameter Millimeter	Stock Code	Minimum Breaking Strength - Pounds	Weight Per 100 Feet - Pounds
11	W83614AM	17,550	36
13	W83616AM	24,300	50
16	W83620AM	36,200	74



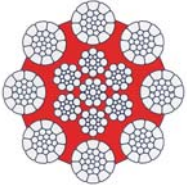


Casar 8 Strand Plastic Wire Rope



Ropes with plastic layer are manufactured by taking an independent wire rope core that has been thoroughly lubricated and coating it with a plastic layer over which the outer strands are laid. The plastic layer has many benefits including removes the incidence of birdcaging, prevents strand to strand contact, seals the lubricant inside the core and keeps water and abrasive elements out.

Casar Turboplast 1960



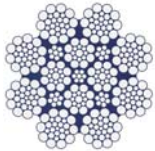
Is a an eight strand rope made out of compacted outer strands and is fully lubricated. It has a plastic layer between the steel core and outer strands. It has a high breaking load and very good resistance against drum crushing.
Main Applications: Overhead Crane, Container Crane, Tower Crane Trolley Ropes, Boom Hoist Rope, Lattice Boom Crane Ropes, Gantry Crane, Clam Shell Ropes and Saw Mill Carriage Ropes.

Diameter Millimeter	Stock Code	Minimum Breaking Strength - TONS	Weight Per 100 Feet - Pounds
22	GTURB28AM	47.63	146.1
26	GTURB32AM	67.04	205.7
28	GTURB36AM	76.91	236.0
32	GTURB40AM	99.18	304.3

- A large range of diameters and Imperial rope also available. Please check for availability.



Casar Alphalift Wire Rope



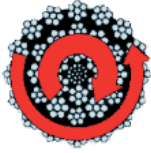
Is an 8 strand rope in parallel lay construction manufactured with conventional strands. The rope is fully lubricated, very flexible and has a high breaking load.
Main Applications: Commonly used as a hoist rope for overhead cranes and lifting devices with multiple reeving.

Diameter Millimeter	Stock Code	Minimum Breaking Strength - TONS	Weight Per 100 Feet - Pounds
6.5mm	GALPH08A1M	4.00	12.6
8mm (5/16")	GALPH10A1M	6.18	19.5
8.5mm	GALPH11A1M	6.92	21.8
9mm	GALPH12A1M	7.84	24.7
12mm	GALPH15A1M	15.27	44.8

- A large range of diameters and Imperial rope also available. Please check for availability.



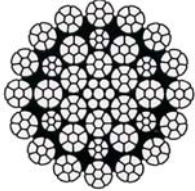
Casar Rotation Resistant Metric Wire Rope



The geometrical design of rotation-resistant CASAR Special Wire Rope is such that the moments in the core and the outer strands compensate each other over a wide load spectrum, so that even with great lifting heights no rope twist occurs.



Casar Starlift Plus 1960



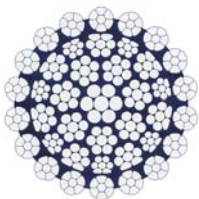
Is a Rotation Resistant, flexible hoist rope with compacted outer strands and is fully lubricated. With a special designed core the rope has a high breaking load and is known worldwide for its excellent service life.

Main Applications: Main and Auxiliary Mobile Crane Hoist Rope, Tower Crane Hoist Ropes, Piling Hoist Lines and some Overhead Cranes.

Diameter Millimeter	Stock Code	Minimum Breaking Strength - TONS	Weight Per 100 Feet - Pounds
16	GSTAR20A3M	25.91	82.7
18	GSTAR23A3M	33.03	103.8
20	GSTAR24A3M	40.70	128.0
22	GSTAR28A3M	49.60	153.2

- A large range of diameters and Imperial rope also available. Please check for availability.

Casar Eurolift 1960



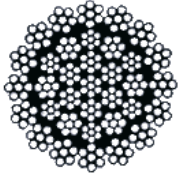
Is a Rotation Resistant, flexible hoist rope made of compacted outer strands and a compacted steel core which is fully lubricated. With a specially designed core the rope has an extremely high breaking load and very good resistance to drum crushing.

Main Applications: Main and Auxiliary Mobile Crane Hoist Rope, Tower Crane Hoist Ropes, Piling Hoist Lines and some Overhead Cranes.

Diameter Millimeter	Stock Code	Minimum Breaking Strength - TONS	Weight Per 100 Feet - Pounds
21	GEURO27A3M	44.71	144.8
22	GEURO28A3M	49.25	159.5
23	GEURO29A3M	53.45	173.1
25	GEURO32A3M	64.01	207.3

- A large range of diameters and Imperial rope also available. Please check for availability.

Powerstrand 35 x 7 Rotation Resistant Metric Wire Rope

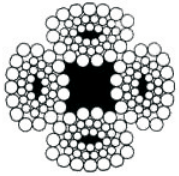


Main Applications: Is a Rotation Resistant flexible wire core wire rope suitable for Tower Crane Hoist Ropes, Main and Auxiliary Mobile Crane Ropes, Piling Hoist Lines and some Overhead Cranes.

Diameter Millimeter	Stock Code	Minimum Breaking Strength - Pounds	Weight Per 100 Feet - Pounds
18	W35723A3M	54,000	97
22	W35728A3M	80,800	149



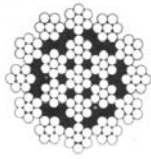
Powerstrand 4 x 39 Rotation Resistant Galvanized Metric Wire Rope



Main Applications: Is a metric Rotation Resistant galvanized wire rope available in both left and right hand. It has a high breaking strength and a unique design to withstand abrasion and drum crushing. It is suitable for Marine Deck Cranes, Piling Rigs and some Mobile Cranes.

Diameter Millimeter	Stock Code	Minimum Breaking Strength - Pounds	Weight Per 100 Feet - Pounds
32	W43940D3MR	154,840	255
32	W43940D3ML	154,840	255

Powerstrand 19 x 7 EIPS Rotation Resistant Wire Rope



Main Applications: Class 19 x 7 Wire Rope is Rotation Resistant but **NOT** Non Rotating. Suitable for Main and Auxiliary ropes on Mobile Cranes, Deck Cranes and Piling Rigs.

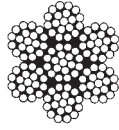
Diameter Inches	Weight Per 100 Feet	19 x 7 EIPS CLASS IWRC BLACK		19 x 7 EIPS CLASS IWRC GALVANIZED		19 x 7 GRADE 304 STAINLESS STEEL	
		Stock Code	Minimum Breaking Strength Pounds	Stock Code	Minimum Breaking Strength Pounds	Stock Code	Minimum Breaking Strength Pounds
1/4	11	W19708A3	5,470	~	~	~	~
5/16	17	W19710A3	8,540	~	~	W19710S3	7,800
3/8	25	W19712A3	12,300	~	~	~	~
7/16	35	W19714A3	16,600	~	~	~	~
1/2	45	W19716A3	21,600	~	~	~	~
9/16	58	W19718A3	27,200	W19718B3	24,400	~	~
5/8	71	W19720A3	33,600	W19720B3	30,200	~	~
3/4	102	W19724A3	48,000	~	~	~	~
7/8	139	W19728A3	65,000	~	~	~	~
1	182	W19732A3	84,400	~	~	~	~
1 1/8	230	W19736A3	106,200	~	~	~	~
1 1/4	284	W19740A3	130,200	~	~	~	~



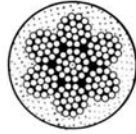
Powerstrand 7 x 7 & 7 x 19 Stainless Steel Type 304 Aircraft Cable



7 x 7



7 x 19



7 x 19 Coated



Main Applications: The above ropes are a **commercial grade aircraft cable**, suitable for many applications including Marine Ropes, Suspension, Rigging Stays, Winches, Pulling, Yachting and Control Cables.

Diameter Inches	7x7 STAINLESS STEEL AIRCRAFT CABLE			7x19 STAINLESS STEEL AIRCRAFT CABLE		
	Stock Code	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds	Stock Code	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
1/16	W70702S1	480	0.75	~	~	~
3/32	W70703S1	920	1.60	~	~	~
1/8	W70704S1	1,700	2.80	W71904S1	1,760	2.90
5/32	~	~	~	W71905S1	2,400	4.50
3/16	~	~	~	W71906S1	3,700	6.50
1/4	~	~	~	W71908S1	6,400	11.00
5/16	~	~	~	W71910S1	9,000	17.30
3/8	~	~	~	W71912S1	12,000	24.30

Powerstrand 7 x 19 Stainless Steel Aircraft Cable Type 304 PVC Coated

Bare Wire Diameter Inches	Outside Diameter Inches	Stock Code	PVC Colour	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
1/8	3/16	W71904SPW	WHITE	1,760	3.9
3/16	1/4	W71906SPW	WHITE	3,700	7.8

- Powerstrand Aircraft cable is **NOT** suitable for aircraft use.

Powerstrand 1 x 19 Stainless Steel Type 316 Rigging Strand

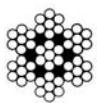


1 x 19

Main Applications: A stiff one strand cable suitable for standing rigging. Applications include Yacht Rigging, Architectural, Guying Balustrading and Display.

Diameter Inches	Stock Code	Minimum Breaking Strength - Pounds	Weight Per 100 Feet - Pounds
1/16	W11902S1	443	0.8
3/32	W11903S1	1,065	2.0
1/8	W11904S1	1,860	3.5
5/32	W11905S1	2,930	5.5
3/16	W11906S1	4,170	7.7
1/4	W11908S1	7,270	13.5
5/16	W11910S1	11,800	21.0
3/8	W11912S1	16,500	30.0

Powerstrand 7 x 7 Stainless Steel Type 316 White PVC Coated (Lifeline)



Main Applications: These ropes suitable for many applications including Yacht Lifelines, Rigging Stays, release/trip wires and Marine Ropes.

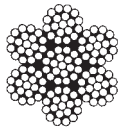
Bare Wire Diameter Inches	Outside Diameter Inches	Stock Code	PVC Colour	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
1/16	3/32	W70702SPW	WHITE	360	0.8
3/32	1/8	W70704SPW	WHITE	900	4.2
1/8	1/4	W70704SPW	WHITE	1,360	4.5
3/16	5/16	W70706SPW	WHITE	3,100	8.3



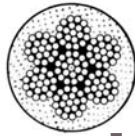
Powerstrand 7 x 7 & 7 x 19 Galvanized Aircraft Cable Commercial Quality



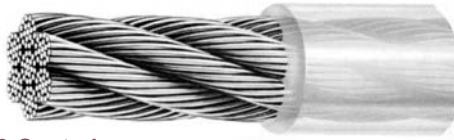
7 x 7



7 x 19



7 x 19 Coated



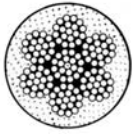
Main Applications: The following ropes are a **commercial grade aircraft cable**, flexible general purpose rope suitable for many applications including Marine Ropes, Suspension, Winches, Pulling, and Control Cables. Powerstrand Aircraft cable is **NOT** suitable for aircraft use.

Diameter Inches	7x7 GALVANIZED AIRCRAFT CABLE			7x19 GALVANIZED AIRCRAFT CABLE		
	Stock Code	Minimum Breaking Strength - lbs	Weight Per 100 Feet Pounds	Stock Code	Minimum Breaking Strength - lbs	Weight Per 100 Feet Pounds
1/16	W70702B5	480	0.75	~	~	~
3/32	W70703B5	920	1.60	~	~	~
1/8	W70704B5	1,700	2.80	W71904B5	2,000	2.90
5/32	~	~	~	W71905B5	2,800	4.50
3/16	~	~	~	W71906B5	4,200	6.50
7/32	~	~	~	W71907B5	5,600	9.80
1/4	~	~	~	W71908B5	7,000	11.00
5/16	~	~	~	W71910B5	9,800	17.30
3/8	~	~	~	W71912B5	14,400	24.30

Powerstrand 7 x 7 & 7 x 19 Galvanized Aircraft Cable PVC Coated

Bare Wire Diameter Inche	Outside Diameter Inches	Stock Code	PVC Colour	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
1/16	3/32	W70702BP	Black, Clear & Yellow	480	2.0
1/8	3/16	W71904BP	Clear,White,Red & Yellow	2,000	3.9
3/16	1/4	W71906BP	Clear,White,Red & Yellow	4,200	7.8
1/4	5/16	W71908BP	Clear & Red	7,000	12.6
3/8	7/16	W71912BP	Clear	14,400	26.00

Powerstrand 7 x 7 & 7 x 19 Galvanized Aircraft Cable PVC Coated



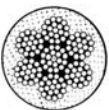
7 x 19 Coated

Main Applications: The following ropes are a **commercial grade aircraft cable** PVC coated, flexible general purpose rope, its main application is for Studio Rigging in the Entertainment Industry.

Bare Wire Diameter Inches	Outside Diameter Inches	Stock Code	PVC Colour	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
1/16	3/32	W70702BPB	BLACK	480	2.0
1/8	5/32	W71904BPB	BLACK	2,000	3.9
3/16	7/32	W71906BPB	BLACK	4,200	7.8



Powerstrand 7 x 7 & 7 x 19 Galvanized Aircraft Cable Nylon Coated



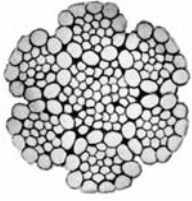
7 x 19 Coated

Main Applications: The following ropes are a **commercial grade aircraft cable** nylon coated, flexible general purpose rope. Nylon coated rope is specially designed to be used where ropes will run over Pulleys or Sheaves such as Gym Equipment or Running Rigging.

Bare Wire Diameter Inches	Outside Diameter Inches	Stock Code	Nylon Colours Available	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
3/32	1/8	W70703BN	Black	920	3.2
1/8	3/16	W71904BN	Black & White	2,000	3.9
5/32	3/16	W71905BN	Black	2,800	5.2
3/16	1/4	W71906BN	Black & White	4,200	7.8

- Powerstrand Aircraft cable is **NOT** suitable for aircraft use.

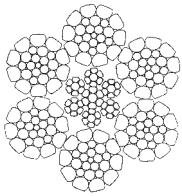
Powerstrand 6 x 26 IWRC Black Swaged IPS Wire Rope



Main Applications: Swaged Rope is designed for superior strength and abrasion resistance and is suitable for Logging applications such as Winch Lines, Chokers, Skylines and Haulbacks.

Diameter Inches	Stock Code	Minimum Breaking Strength - Pounds	Weight Per 100 Feet - Pounds
7/16	W62614AS	21,100	42
1/2	W62616AS	27,700	60
9/16	W62618AS	34,800	75
5/8	W62620AS	42,600	92
11/16	W62622AS	51,300	100
3/4	W62624AS	60,900	133
7/8	W62628AS	82,600	184
1	W62632AS	107,000	235

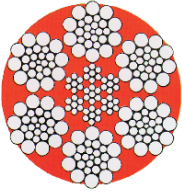
Powerstrand 6 x 26 IWRC Compacted Wire Rope



Main Applications: Compacted rope is designed for resistance to drum crushing and abrasion with high breaking strength. Applications include Logging Winch Lines, Chokers, Haulbacks, Lattice Boom Crane Ropes, Crawler Crane Ropes and Boom Hoist

Diameter Inches	Stock Code	Minimum Breaking Strength - Pounds	Weight Per 100 Feet - Pounds
1/2	W62616AD	30,200	49
9/16	W62618AD	38,100	63
5/8	W62620AD	45,000	78
3/4	W62624AD	68,800	113
7/8	W62628AD	86,900	154
1	W62632AD	112,900	200

Powerstrand 6 x 26 IWRC Black Plastic Impregnated Wire Rope



Main Applications: PFI Wire Ropes are fully impregnated with plastic both internally and externally. The Polymer is designed to fill the valleys between the strands allowing increased service life. Applications can include Choker Assemblies for Helicopter Logging, Skip Hoists, Clam Shell Ropes, Drag Lines and Saw Mill Carriage Ropes.

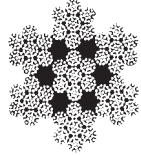
Bare Wire Diameter Inches	Outside Diameter Inches	Stock Code	Colour	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
1/2	17/32	W62616AP	Yellow	26,600	46.2
9/16	19/32	W62618AP	Yellow	33,600	58.8
5/8	21/32	W62620AP	Yellow	41,200	72.5
3/4	25/32	W62624AP	Yellow	58,800	99.0
7/8	29/32	W62628AP	Red/Orange	79,600	141.8



Powerstrand 7 x 7 x 7 & 7 x 7 x 19 Galvanized Cable Laid Wire Rope



7 x 7 x 7 Cable Laid



7 x 7 x 19 Cable Laid

Main Applications: Cable Laid Ropes are specifically designed to give superior flexibility for use as Sling Assemblies.

Diameter Inches	7x7x7 GALVANIZED CABLE LAID			7x7x19 GALVANIZED CABLE LAID		
	Stock Code	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds	Stock Code	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
3/8	W77712B1	14,300	22	~	~	~
7/16	W77714B1	17,900	27	~	~	~
1/2	W77716B1	19,400	37	~	~	~
9/16	W77718B1	29,700	44	~	~	~
5/8	W77720B1	31,300	60	~	~	~
3/4	~	~	~	W77724B1	43,300	81

Powerstrand 1 x 7 Galvanized G180 Guy Strand



1 x 7

Main Applications: A stiff one strand cable suitable for Guy Strand Rigging.

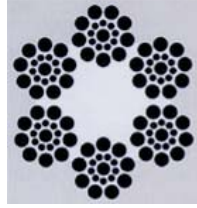
Diameter Inches	Stock Code	Minimum Breaking Strength - Pounds	Weight Per 100 Feet - Pounds
3/16	W10706G1	4,000	7.9
1/4	W10708G1	6,400	12.9
5/16	W10710G1	11,100	22.3
3/8	W10712G1	13,500	27.0
7/16	W10714G1	19,500	38.9
1/2	W10716G1	25,500	51.7



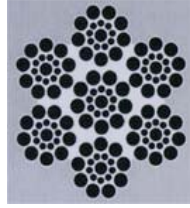
Trawling Wire Ropes Galvanized Heavy 'C' Lube



6 x 19 Dragon Plata



6 x 19 Dragon Negro



6 x 19 Dragon Sol

Main Applications: Tycsa Wire Ropes provide a complete range of Trawling Wire Ropes for the Fishing Industry. Tycsa ropes are designed to give extra strength and increased service life.

Diameter Inches	Stock Code	Construction	Minimum Breaking Strength Pounds	Weight Per 100 Feet Pounds
5/8 / 3/4	W61720D1P	6x17 FC PC Dragon Sol	29,202	60
16mm	W61920BD	6x19 IWRC Compact Dragon Plata WG	40,900	75
16mm	W61920DM	6x19 FC Dragon Negro	32,570	92
18mm	W61923BD	6x19 IWRC Compact Dragon Plata NG	52,340	133
19mm	W61924DM	6x19 FC Dragon Negro	46,760	184



Powerstrand 1 x 7 Stainless Steel Type 304 Trawling Strand



1 x 7

Main Applications: A stiff one strand cable suitable for Fish Trawling applications.

Diameter Inches	Stock Code	Minimum Breaking Strength - Pounds	Weight Per 100 Feet - Pounds
1/16	W10702S1	500	0.85

WESCO

INDUSTRIES LTD.

www.wescovan.com

Head Office: Unit 1, 9663-199A Street
Langley BC V1M 2X7

Phone: 604 881 3000

Fax: 604 881 3010

Email: info@wescovan.com

Rigging Centre: 2437 Beta Avenue
Burnaby BC V5C 5N1

Phone: 604 292 1220

Fax: 604 292 1222

Email: burnaby@wescovan.com

Distributors of:

Wire Rope & Fittings - Powerstrand, Esco, Crosby, Campbell.

Wire Rope all types of constructions and diameters, Wire Rope Fittings, Wire Rope Assemblies, Grips, Hooks, & Links.

Slings - Powerstrand, Gunnebo, Campbell, Procraft.

Wire Rope, Chain, Webbing, Endless Polyester & Rope.

Chain & Fittings - Campbell, Gunnebo - Grabiq, Procraft.

Grade 30, Mooring & Lashing, Grade 70, 80 & 100.

Hoists & Trolleys - Columbus Mckinnon, Coffing & Campbell.

Chain Hoists, Lever Hoists, Cummalongs, Electric Hoists, Air Hoists, Winches, Beam Clamps & Trolleys.

Lifting Equipment - CM, Merrill, Terrier, Johnson, Rud, Crosby.

Shackles, Hooks, Plate Clamps, Crane Blocks, Eyebolts, Turnbuckles.

Cordage - Novatec Braid, Samson, Procraft.

Double Braid, 12 Strand, 8 Strand, 3 Strand & Cords.

Towing & Tie Down - Procraft, CM, Crosby.

Loadbinders, Straps, Chain & Hooks, & Wire Rope Assemblies.

Industries Supplied:

Crane, Construction, Logging, Marine, Industrial, Towing, Entertainment, Elevator, Mining, Offshore Oil & Gas, Fishing, Forestry, Utilities, Steel Works & Rigging.



COOPER Tools
Campbell®

ProCraft®



the Crosby group, inc.

GUNNEBO  **JOHNSON CORPORATION**