



WIRE & CABLE
PRODUCTS
(PVT) LTD.

Client Satisfaction Is Our Priority



Manufacturers & Exporters of CCL Brand Steel Wire Ropes, PC 7 - Wire Strands, Single Wires

Company Profile

Wire & Cable Products, a Privet Limited company incorporated in 2003, set up an industrial unit, with a production capacity of 800 MT per month at Raiwind Manga Road, Lahore. Our aim was to cater the national needs and to substitute the imports of High Carbon PC strand, High Carbon single wires of different sizes and steel wire ropes. Since such products inevitably need highest standard of safety of human life, it was ensured to procure the latest high tech machinery of European makers.

Now by the grace of Almighty, WCP is one of the Pakistan's largest suppliers and Manufacturer of Galvanized and Un-Galvanized wire ropes, PC Strands and Single Wires. WCPL have always focused on providing high quality wire ropes backed with an enthusiastic approach to customer service which in itself, forms an integral part of our company' policy ethos. WCPL is proud to offer an extensive product range of Wire Ropes, fittings for a variety of markets including: Construction, Offshore rigging, the Marine Industry and Ministry of Defense divisions. The list of our buyer includes supplier to WAPDA, Pakistan Steel Mill, HMC, NHA and FWO etc. In addition to this, we have been supplying Wire Rope to the developed industrial nations like Germany and Spain

Our product range includes:

- **Galvanized and Un-Galvanized High Carbon Steel Wire Ropes 6X7, 6X12, 6X19, 6X27, 6X36, 6X37 sizes from 4MM Dia to 24MM Dia**
- **Galvanized Wire Rope fittings.**
- **High Carbon PC wire Strand ASTM A416-80 270K Grade**
- **High Carbon Single Wire ASTM A421-80**

We at WCPLtd believe in providing our customers with value for money, high quality wire rope products. We are committed to provide high levels of customer service, whilst constantly looking at ways in which we can improve your experience in dealing with us. Our dedicated sales team is on hand to offer bespoke solutions for a wide variety of applications and can provide full product advice along with guidance on the most suitable materials for any application.



Wire Rope
Steel Wire Rope Galvanized
Steel Wire Rope Un-Galvanized



PC 7 Wire Strand
Galvanized 7 Wire Strand
Pre-Stressed 7 Wire Strand



Single Wire
Pre Stressed Single Wire
Rounded Plain Wire
Construction Wire
Indented Wire



21st Century Our Vision & Strategy

To Become an Internationally Recognized Wire Company

To continue to Strive to become and International recognized wire company by Promoting quality products innovative technology, human resource development and globalization.

To Ensure the Trust of Customers

WCP has earned recognition through competitiveness in quality, price, service and new product development, as well as through usage of technology and development of its brand names.

Wire Rope Construction

Wire rope is composed of wires, strands, a core and lubrication. The basic unit of wire rope is wire, which is carefully processed and drawn from selected grades of steel to predetermined physical properties and sizes.

Wire rope consists of several strands of metal wire laid (twisted) into a helix. Initially wrought iron wires were used, but today steel is the main material used for wire ropes.

Wire ropes were developed starting with mining hoist applications in the 1830s. Wire ropes are used dynamically for lifting and hoisting in cranes and elevators, and for transmission of mechanical power.

Wire rope is also used to transmit force in mechanisms, such as a Bowden cable or the control surfaces of an airplane connected to levers and pedals in the cockpit. Static wire ropes are used to support structures such as suspension bridges or as guy wires to support towers. An aerial tramway relies on wire rope to support and move cargo overhead.

Cores for wire ropes

Steel

IWRC (Independent Wire Rope Core)

The main core is an independent wire rope, normally having the construction 7 x 7.

Fibre

Fibre cores are stranded and comprise of natural fibres such as sisal, hemp, jute, and cotton. Synthetic fibres such as polyamide, polyethylene, and polypropylene. Asbestos fibres (heat resistant).

1. Preformed Ropes

In the preforming process the wires and strands are given their final helical pitch before being laid up into rope. Ropes made in this way show no tendency to untwist when cut.

WSC (Wire Strand Core)

The main core is an independent wire strand, normally having the same construction as the outer strands of the rope.

Lubrication

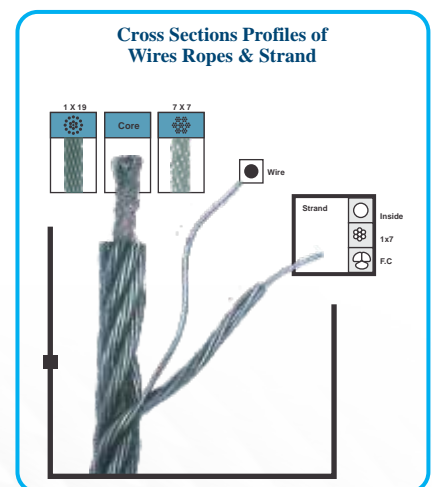
Lubrication reduces internal friction of the wires and strands and protects against corrosion. Grease is applied to all ropes supplied. If special lubricants are required this must be specifically stated at time of ordering.

2. Post formed Ropes

The Rope shall be uniformly made. Free from defects. When uncoiled under no load the rope shall not be wavy.

Diameter of wire ropes

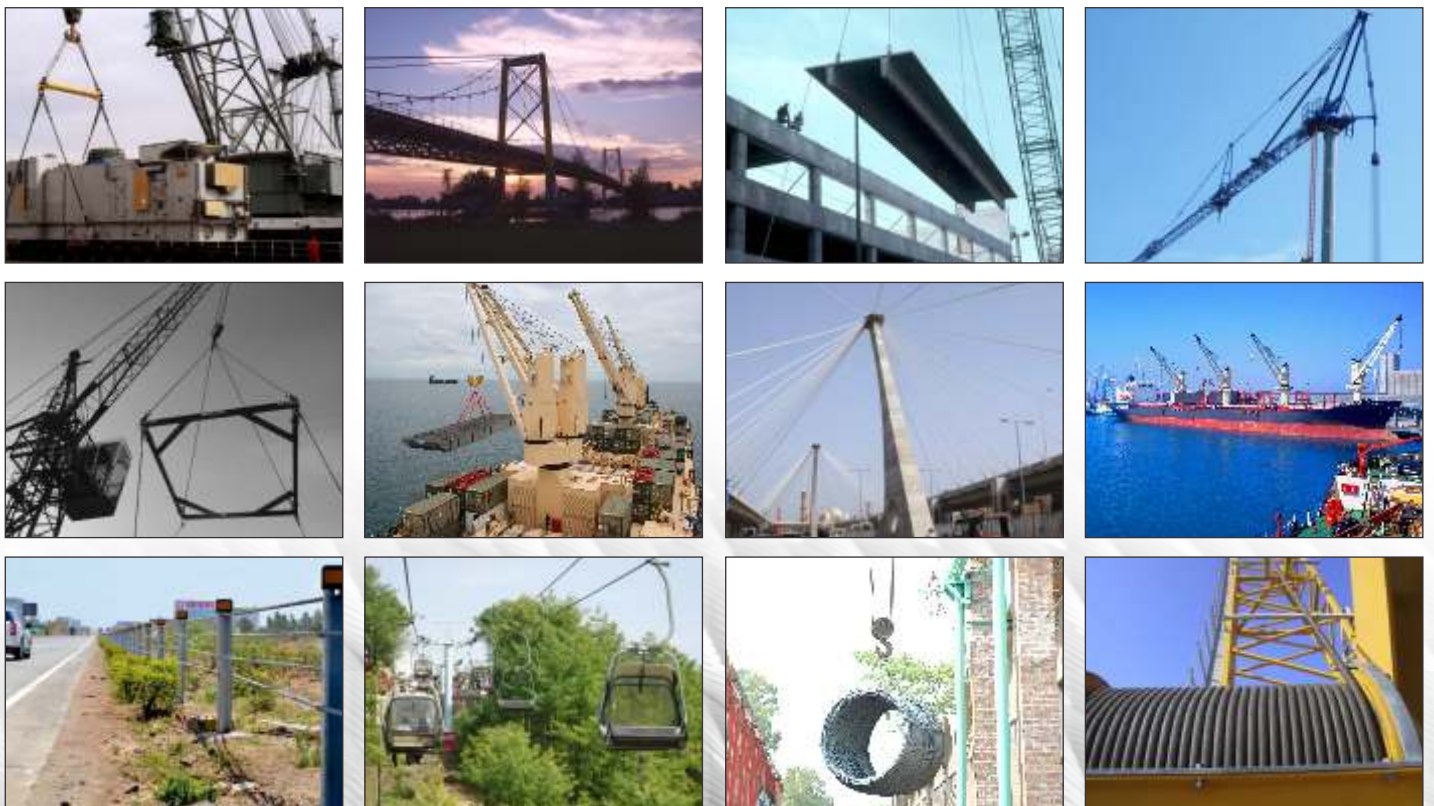
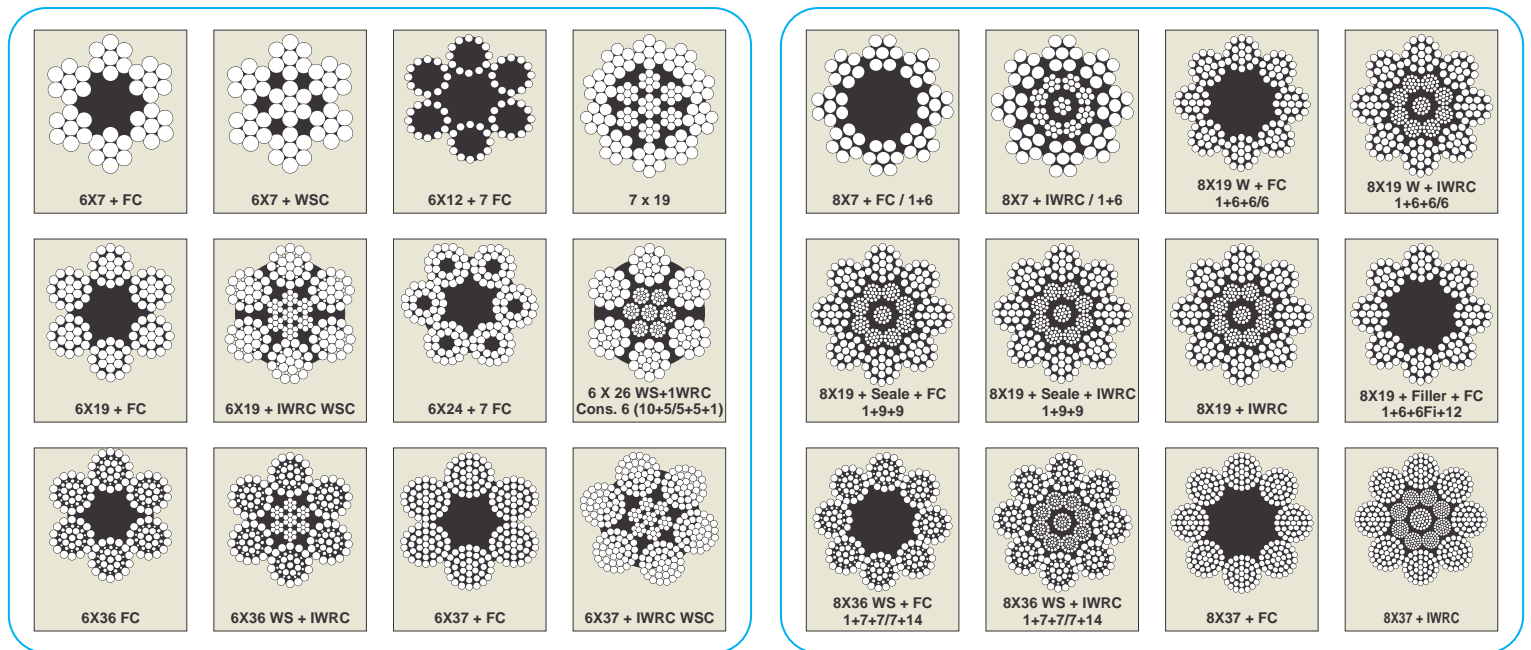
The diameter of a wire rope is the diameter of the circle which encloses all of the wires. When measuring wire rope it is important to take the greatest distance of the outer limits of the "Crowns" of two opposite strands. A measurement across the valley will result in incorrect lower readings



Wire Rope Construction Terminology

Wire ropes have different breaking strengths based on their sizes and constructions.

Some other construction are as follows:





Largest Manufacturer of Grade 270-k Pc Wire Strand

WCPL Prestressed Concrete (PC) Steel Seven Wire Strands Standard Specification ASTM A416-80

PC 7 - WIRE STRAND

Standard	Nominal Diameter		Tolerance of Dia		Unit Weight		Breaking Load (min.)		Minimum Load 1% Extension		Elongation% in 24 inch	
	Grade	In	mm	In	mm	lbs/1000ft	kg/km	lbs	kgs	lbs	kgs	(min.)
ASTM A416-80	270	3/8	9.525	+0.026 -0.006	+0.66 -0.15	290	432	23000	10,430	19,500	8,845	3.5
		7/16	11.11	+0.026 -0.006	+0.66 -0.15	390	582	31000	14,060	26,350	11,950	3.5
		1/2	12.70	+0.026 -0.006	+0.66 -0.15	520	775	41300	18,730	35,100	15,920	3.5
		0.6	15.24	+0.026 -0.006	+0.66 -0.15	740	1102	58600	26,580	49,800	22,590	3.5
ASTM A416-80	250	1/4	6.35	±0.016	±0.41	122	182	9000	4,080	7,650	3,470	3.5
		5/16	7.94	±0.016	±0.41	197	294	14500	6,580	12,300	5,580	3.5
		3/8	9.53	±0.016	±0.41	272	405	20000	9,070	17,000	7,710	3.5
		7/16	11.11	±0.016	±0.41	367	548	27000	12,250	23,000	10,430	3.5
		1/2	12.70	±0.016	±0.41	490	730	36000	16,330	30,600	13,880	3.5
		0.6	15.24	±0.016	±0.41	737	1094	54000	24,490	45,900	20,820	3.5



If you think of quality and we are sure you do, then buy **HIGH CARBON STEEL WIRE** only from **Wire & Cable Products (Pvt) Ltd.** We are one of the leading manufacturers in the country who manufacture steel wires as per international Standards by using the High Carbon Wire Rod of the Steel mill which is internationally recognized as the producer of the best High Carbon Steel Rods. Our Products include all type of Plain, Indented and Construction Wires.



WCPL Prestressed Concrete (PC) Steel Seven Wire Strands Standard Specification ASTM A416-80

Single Wire

Standard	Nominal Diameter		Tolerance of Dia		Unit Weight		Breaking Load (min.)		Yielding Load (min.)		Elongation% in 10 inch	
	In	mm	In	mm	lbs/1000ft	kg/km	lbs	kgs	lbs	kgs	(min.)	
ASTM A421-80	Type Wa	0.192	4.88	+0.002	+0.050	98.4	146.4	7,250	3,290	6,160	2,790	4.0
		0.196	4.98	+0.002	+0.050	103.4	153.9	7,550	3,420	6,410	2,910	4.0
		0.250	6.35	+0.002	+0.050	166.8	248.2	11,780	5,340	10,010	4,540	4.0
		0.276	7.01	+0.002	+0.050	203.4	302.7	14,050	6,370	11,950	5,420	4.0
	Type Ba	0.196	4.98	+0.002	+0.050	103.4	153.9	7,250	3,280	6,160	2,798	4.0
		0.250	6.35	+0.002	+0.050	166.8	248.2	11,780	5,340	10,010	4,540	4.0
		0.276	7.01	+0.002	+0.050	203.4	302.7	14,050	6,370	11,950	5,420	4.0
SWHR C	0.315	8.00	+0.002	+0.060	255.4	3950	15,540	7,050	12,125	5,500	3.5	

CCL Brand Wire Rope



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