

Tianjin Chunpeng Prestressed Concrete Strand Co., LTD

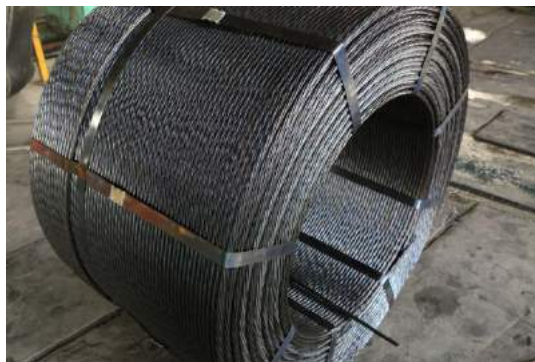


Chunpeng Low Relaxation PC Strand



Chunpeng PC strand is famous for its high quality and dependable. Low Relaxation and high tensile, these characteristics make strands widely used in post-tensioning work and stayed cable projects. Our production can be suited to many international standards like ASTM A416, BS 5896, JIS G3536, AS/NZS 4672.1, EN 10138 etc. You will stand out among competitor under the cooperation with Chunpeng.

Chunpeng is also capable of producing PE coated strands & epoxy-coated strands PC wire, Corrugated Pipe and Anchorage for various prestressed concrete applications.



Standards for Chunpeng PC strand



Standard of PERN6138

Grade	Nominal Dia. (mm)	Diameter Tolerance	Nominal section area (mm ²)	Nominal Weight (kg/1000m)	Weight Tolerance	Pitch times of diameter	Minimum Breaking load	Minimum Yieldload			Minimum Elongation	1000-hrrelaxation (%Max)
								0.1%	0.2%	1.0%		Initial load (80%)
Y1770S7	9.30		52.00	406	+2/-2	14-18	92.00	79.10			3.5	4.5 (A)
	11.00		70.00	547	+2/-2	14-18	124.00	107.00			3.5	4.5 (A)
	12.50		93.00	726	+2/-2	14-18	165.00	142.00			3.5	4.5 (A)
	15.20		139.00	1.086	+2/-2	14-18	246.00	212.00			3.5	4.5 (A)
	15.70		150.00	1.172	+2/-2	14-18	266.00	229.00			3.5	4.5 (A)
Y1860S7	9.60		55.00	430	+2/-2	14-18	102.00	87.70			3.5	4.5 (A)
	11.30		75.00	586	+2/-2	14-18	140.00	120.00			3.5	4.5 (A)
	12.90		100.00	781	+2/-2	14-18	186.00	160.00			3.5	4.5 (A)
	15.20		139.00	1.086	+2/-2	14-18	259.00	223.00			3.5	4.5 (A)
	15.70		150.00	1.172	+2/-2	14-18	279.00	240.00			3.5	4.5 (A)
Y1860S7G	12.70		112.00	875	+2/-2	14-18	208.00	179.00			3.5	4.5 (A)
Y1820S7G	15.20		165.00	1.289	+2/-2	14-18	300.00	258.00			3.5	4.5 (A)
Y1700S7G	18.00		223.00	1.742	+2/-2	14-18	379.00	326.00			3.5	4.5 (A)

Standard of GB/T5224

Structure	Nominal Dia. (mm)	Tolerance (mm)	Cross section area (Sn/mm ²)	Re.mass per 1m (g/m)	Tensile Strength Not less than (Rm/Mpa)	Yield Strength Not less than (Fp0.2/Mpa)	Elongation at max load Not less than (%)	Initial load to % of nominal max load Not more than (%)	The relaxation at 1000h (r/%)		
1X2	8.00	+0.25	25.1	197	1470	1320	3.5				
	10.00	-0.10	39.3	309	1570	1410					
	12.00		56.5	444	1720	1550					
1X3	8.60	+0.20	37.3	296	1860	1670				60	1.0
	10.80	-0.10	58.9	462	1960	1760					
	12.90		84.8	666							
1X7	9.50	+0.30	54.8	430	1720	1550		3.5	70	2.5	
	11.10	-0.15	74.2	582	1860	1670					
	12.70		98.7	775	1960	1760					
	15.20	+0.40 -0.20	140	1101	1470	1320			80	4.5	
					1570	1410					
					1670	1500					
					1720	1550					
					1860	1670					
					1960	1760					
	15.70		150	1178	1720	1550					
	17.80		191	1500	1860	1670					
	21.60		285	2237	1770	1590					
				1860	1670						

Standard of ASTM A416

Grade	Nominal Dia. (mm)	Tolerance (mm)	Nominal section area (mm ²)	mass per 1000m (kg/1000m)	Minimum Breaking load	Min Load at 1% Extension (KN)	(Lo≥610mm) (%)	The relaxation at 1000h (Initial load to 70% of nominal max load) (%)	
								Low-Relaxation	Normal-Relaxation
250 [1725]	9.5	±0.40	51.6	405	89.0	80.1	3.5	2.5	3.5
	11.1		69.7	548	120.1	108.1			
	12.70		92.9	730	160.1	144.1			
	15.20		139.4	1094	240.2	216.2			
270 [1860]	9.53	+0.65 -0.15	54.84	432	102.3	92.1		2.5	3.5
	11.11		74.19	582	137.9	124.1			
	12.70		98.71	775	183.7	165.3			
	15.24		140.00	1102	260.7	234.6			



Standard of Chunpeng

Structure	Nominal Dia. (mm)	Tolerance (mm)	Cross section area (Sn/mm ²)	Re.mass per 1m (g/m)	(Fm/KN)	Fp0.2/KN	Elongation at max load Not less than (%)	Initial load to % of nominal max load Not more than (%)	The relaxation at 1000h (r/%)	
									低松弛 Low-Relaxation	普通松弛 Normal-Relaxation
1X7	18.9	+0.40	217	1703	384	345	3.5	60	1.0	/
									70	/
	23.0	-0.20	318	2496	531	478		80	4.5	/
1X19	21.8	+0.60 -0.25	312.9	2482	573	495	70	≤2.5	≤8	

Standard of BS5896

Grade	Nominal Dia. (mm)	Diameter Tolerance	Nominal section area (mm ²)	Nominal Weight (kg/1000m)	Weight Tolerance	Pitch times of diameter	Minimum Breaking load	Minimum Yieldload			Minimum Elongation	1000-hrrelaxation (%Max)
								0.1%	0.2%	1.0%		Initial load (80%)
Standard	9.30	+0.3/-0.15	52.00	408	+4/-2	12-18	92.00	78.00		81.00	3.5	4.5 (A)
	11.00	+0.3/-0.15	71.00	557	+4/-2	12-18	125.00	106.00		100.00	3.5	4.5 (A)
	12.50	+0.4/-0.2	93.00	730	+4/-2	12-18	164.00	139.00		144.00	3.5	4.5 (A)
	15.20	+0.4/-0.2	139.00	1.090	+4/-2	12-18	232.00	197.00		204.00	3.5	4.5 (A)
Super	9.60	+0.3/-0.15	55.00	432	+4/-2	12-18	102.00	87.70		90.00	3.5	4.5 (A)
	11.30	+0.3/-0.15	75.00	590	+4/-2	12-18	139.00	118.00		122.00	3.5	4.5 (A)
	12.90	+0.4/-0.2	100.00	785	+4/-2	12-18	186.00	158.00		163.00	3.5	4.5 (A)
	15.70	+0.4/-0.2	150.00	1.180	+4/-2	12-18	265.00	225.00		233.00	3.5	4.5 (A)
Compacted (Drawn)	12.70	+0.4/-0.2	112.00	890	+4/-2	14-18	209.00	178.00		184.00	3.5	4.5 (A)
	15.20	+0.4/-0.2	165.00	1.295	+4/-2	14-18	300.00	255.00		264.00	3.5	4.5 (A)
	18.00	+0.4/-0.2	223.00	1.750	+4/-2	14-18	380.00	323.00		334.00	3.5	4.5 (A)

The production flow of Low Relaxation PC Strand



Material-- steel wire



Drawing Production



Strands production-01



Strands production-02



Strands production-03



Strands production-04

The factory of Chunpeng PC strand



