

PC Strands

PC strands for reinforcement of prestressed and post-tensioned concrete constructions.

- 3- and 7-wire strands made from round or indented wires;
- Compacted 7-wire strands;
- Polymer-sheathed 7-wire strands including compacted strands.

Application:

- **2- and 3-wire strands**
 - Manufacture of espaliers for intensive gardening systems, small section concrete products, concrete sleepers.
- **7-wire strands**
 - Manufacture of concrete components (such as hollow slabs of concrete floors, beams), ground and mountain anchorage.
- **High-strength 7-wire PSC strands** (including sheathed strands)
 - Construction of bridges, elevated highways, large spanned structures, roads, industrial floors, foundations, heavy lifting.

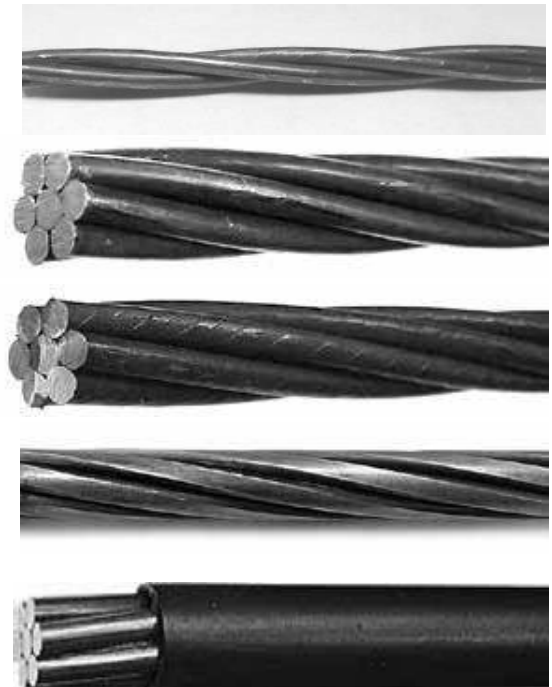
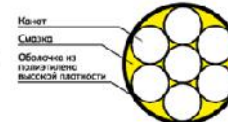
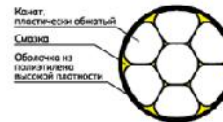
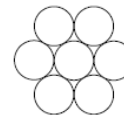
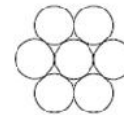


PSC Strands. Range of products

PSC strands are manufactured in accordance with the following standards:

GOST R 53772-2010, prEN 10138-3-2006, BS 5896-1980, ASTM A 416-18:

- 2- and 3-wire strands (plain/smooth or indented) - $\text{Ø}4.9 \div 6.9$ mm;
- 7-wire strands (plain/smooth or indented wire) - $\text{Ø}9.3$; 9.6; 12.5; 12.9; 15.2; 15.7; 18.0, 18,2 mm;
- 7-wire strands (compact) - $\text{Ø}12.7$; 15.2; 18.0;
- 7-wire strands made of round wires and compact, lubricated and sheathed - $\text{Ø}12.5$; 12.9; 15.2; 15.7 mm;
- uncoated, Zn coated, Dromus coated.



Technical parameters

Class of reinforcement steel	Nominal diameter, mm	Reference document	Tensile strength, N/mm ²	Yield strength, N/mm ²	Breaking strength, kN, min.	Load at yield strength, kN, min.	Nominal cross-section area, mm ²	Elongation, %	Relaxation after 1000 h, max., %	Calculated weight of 1 m, kg
B, Bp-2	3	GOST 7348	1780	1500	12.6	10.6	7.07	4	2.5	0.06
	4	GOST 7348	1700	1400	21.4	18	12.6			0.10
	5	GOST 7348	1670	1400	33	28	19.6			0.15
	6	GOST 7348	1673	1404	47	40	28.3	5		0.22
	7	GOST 7348	1570	1318	60	51	38.5	6		0.30
	8	GOST 7348	1472	1233	74	62	50.3	6		0.39
	9.6	STO 71915393-TU176-2018	1650	1430	117	103	70.9	5.5		0.55
	10.5	prEN10138-2	1570	1375	136	118	86.6	3.5		0.68
K2	4.5	TU 096-2010	1860	1660	15	13	8.0		0.06	
K3	4.9	TU 096-2010	1960	1750	23	21	11.9		0.09	
	5.2	EN 10138-3	2060	1830	28	24.9	13.6		0.11	
	6.5	EN 10138-3	1860	1650	39.4	34.7	21.2		0.17	
	6.9	EN 10138-3	1860	1650	43.5	38.3	23.4		0.18	
K7	6.9	GOST R 53772	2160	1920	63	54	29.0		0.23	
K7	9.3	GOST R 53772	1960	1740	102	90	52.0		0.41	
K7	12.5	GOST R 53772	1860	1650	173	152	93.0		0.73	
K7O	12.7	GOST R 53772	1860	1650	208	183	112.0		0.88	
K7	15.2	GOST R 53772	1860	1650	259	228	139.0		1.09	
K7	15.7	GOST R 53772	1860	1650	279	246	150.0		1.17	
K7O	15.2	GOST R 53772	1860	1650	307	270	165.0		1.29	
K7	18.0	GOST R 53772	1770	1550	354	312	200.0		1.56	
K7O	18.0	GOST R 53772	1700	1490	379	334	223.0		1.74	

Prestressing beds



Onsite post-tensioning



Post-tensioning of reinforced-concrete floors



Reinforced concrete road slabs



HEAVY LIFTING



Anchoring

