

Specification of PC STRAND

	Nominal Dia		Dia Tolerance Of Strand		Max. Deviation Between Diameters of Core Wire & Side Wire		Pitch	Nominal Cross Section Area		Unit Mass	Unit Mass Tolerance	Breaking Strength			Yield Point						Min. Elongation		Normal Relaxation			Low Relaxation			Straightness	Chemical Composition %		
	inch		mm		inch			mm ²				Lbs/1000ft	g/m	%	RF	RF	RF	Normal Relaxation		Low Relaxation		inch	mm	%	Initial Stress	Testing Time	%	Initial Stress			Testing Time	%
	inch	mm	inch	mm	inch	mm		inch	mm						kgf	kN	kgf	kN	kgf	kN	kgf											
	inch	mm	inch	mm	inch	mm		inch	mm			kgf	kN	kgf	kN	kgf	kN	kgf	kN	kgf	kN	kgf	kN	kgf	kN	kgf	kN	kgf			kN	kgf
SNI 1154 : 2016	KBP-P77 A KBP-P77 A	1/4	6.4	-	-	0.001	0.025	0.036	23	122	182	-	5.922	4.079	40	7.650	3.467	34.0	8.500	3.871	36.0	24	600	3.5 Min	0.7 pu1	200 hr, extrapolated 1000	8.0 Max	or	200 hr, extrapolated 1000	2.5 Max	Cr - 0.3 Min B - 0.0008 Min Ti - 0.025 Max Mo - 0.04 Min P - 0.020 Max S - 0.020 Max	
		5/16	7.9	-	-	0.0015	0.038	0.057	37	198	294	-	14.500	6.577	64.5	12.297	5.578	54.7	13.061	5.925	58.1	24	600	3.5 Min	0.7 pu1	200 hr, extrapolated 1000	8.0 Max	or	200 hr, extrapolated 1000	2.5 Max		
	KBP-P77 B KBP-P77 B	3/8	9.5	+0.016	-0.40	0.0025	0.064	0.115	74.2	390	580	-	21.024	14.072	138	26.340	11.951	117.2	27.900	12.655	124.1	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max		
		1/2	12.7	-	-	0.003	0.076	0.153	98.7	524	780	-	41.365	18.763	184	84.6	35.93	351.1	37.141	148.65	146.3	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max		
	ASTM A16 / A16M-12a	GRADE 250	1/4	6.4	-	-	0.0015	0.025	0.036	23	122	182	-	5.922	4.079	40	7.650	3.467	34.0	8.500	3.871	36.0	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	
			5/16	7.9	-	-	0.002	0.031	0.050	37	197	294	-	14.500	6.577	64.5	12.297	5.578	54.7	13.060	5.925	58.1	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	
		GRADE 270	3/8	9.5	+0.016	-0.40	0.0025	0.064	0.115	74.2	390	580	-	21.024	14.072	138	26.340	11.951	117.2	27.900	12.655	124.1	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	
			1/2	12.7	-	-	0.003	0.076	0.153	98.7	524	780	-	41.365	18.763	184	84.6	35.93	351.1	37.141	148.65	146.3	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	
		BS 5896-2008 *	SWR6 7AN SWR6 7AL	3/8	9.5	+0.016	-0.4	0.0028	0.05	0.080	41.41	272	405	-	14.966	9.851	97.0	19.520	8.872	87.0	22.499	75.3	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	
				1/2	12.7	-0.008	-0.2	0.003	0.08	0.144	92.90	490	729	-	35.969	16.316	160	30.600	13.889	136.2	32.400	144.94	144.1	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max
SWR6 7BN SWR6 7BL			3/8	9.5	+0.016	-0.4	0.0028	0.05	0.080	41.44	290	580	-	22.931	16.401	160	19.513	11.881	116.0	26.537	103.0	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max		
			1/2	12.7	-0.008	-0.2	0.003	0.08	0.153	98.71	520	774	-	41.140	18.641	183	35.970	15.908	154	49.918	22.628	227	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	
BS 5896-2012			1670	3/8	9.5	+0.016	-0.4	0.0028	0.05	0.080	41.41	272	405	-	14.966	9.851	97.0	19.520	8.872	87.0	22.499	75.3	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	(Curvature of strand) When a length of seven wire strand is lying free on a flat surface, the maximum bow height from a base line 1.0 m in length measured from the inside of the curve shall be no greater than 25 mm.
				1/2	12.7	-0.012	-0.3	0.003	0.08	0.144	92.90	490	729	-	35.969	16.316	160	30.600	13.889	136.2	32.400	144.94	144.1	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max
	1770		3/8	9.5	+0.016	-0.4	0.0028	0.05	0.080	41.41	272	405	-	14.966	9.851	97.0	19.520	8.872	87.0	22.499	75.3	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max		
			1/2	12.7	-0.012	-0.3	0.003	0.08	0.144	92.90	490	729	-	35.969	16.316	160	30.600	13.889	136.2	32.400	144.94	144.1	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	
	1860		3/8	9.5	+0.016	-0.4	0.0028	0.05	0.080	41.41	272	405	-	14.966	9.851	97.0	19.520	8.872	87.0	22.499	75.3	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max		
			1/2	12.7	-0.012	-0.3	0.003	0.08	0.144	92.90	490	729	-	35.969	16.316	160	30.600	13.889	136.2	32.400	144.94	144.1	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	
	pr EN 10138 : 2005	Y170S7	3/8	9.5	-	-	0.001	0.025	0.036	23	122	182	-	5.922	4.079	40	7.650	3.467	34.0	8.500	3.871	36.0	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	(Curvature of strand) When a length of seven wire strand is lying free on a flat surface, the maximum bow height from a base line 1.0 m in length measured from the inside of the curve shall be no greater than 25 mm.
			5/16	7.9	-	-	0.002	0.031	0.050	37	197	294	-	14.500	6.577	64.5	12.297	5.578	54.7	13.060	5.925	58.1	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	
		Y180S7	3/8	9.5	-	-	0.0015	0.038	0.057	37	198	294	-	14.500	6.577	64.5	12.297	5.578	54.7	13.061	5.925	58.1	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	
			1/2	12.7	-	-	0.0025	0.064	0.115	74.2	390	580	-	21.024	14.072	138	26.340	11.951	117.2	27.900	12.655	124.1	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max	
Y190S7		3/8	9.5	-	-	0.002	0.05	0.080	41.44	290	580	-	22.931	16.401	160	19.513	11.881	116.0	26.537	103.0	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max			
		1/2	12.7	-	-	0.003	0.08	0.153	98.71	520	774	-	41.140	18.641	183	35.970	15.908	154	49.918	22.628	227	24	600	3.5 Min	0.7 pu1	1000 hr	8.0 Max	or	1000 hr	2.5 Max		

NOTE: 1. Nominal Tensile Strength (N/mm²) Equivalent BS Standard 2. Reference tolerance diameter from BS 5896 : 1990 3. Cross section area tolerance -4%, 2% (for BS 5896 : 1990) 4. pu1 - Specified minimum breaking strength (load) 5. pu2 - Actual breaking load