



4-sided Oval Indented



3-sided Deformed (Chevron Indented)



Plain

PC Wire

Our company supply various types of PC wire including plain wire, chevron indented (deformed), 2-sided or 4-sided Oval Indented. During its stabilising process, the wire is heated to elevated temperature and the internal stress induced by wire drawing is released so that the finished product has more uniform elastic properties and greater resistance to stress corrosion. Our PC wire having the advantages of higher fatigue, corrosion resistance, better performance at elevated temperature and low relaxation property.

PC wire is widely used for many industries, such as prestressed concrete piles, concrete poles, concrete beams, railway sleepers, pressure pipe, building panels (slabs or outer walls), etc.



Southern PC Steel
A Member of the Hong Leong Group

A Comparison of Specification for PC Wire

STANDARD	NOTATION	NOMINAL DIAMETER	DIAMETER TOLERANCE	GROSS SECTION AREA		NOMINAL WEIGHT	MIN. TENSILE STRENGTH	MIN. BREAKING LOAD	MIN. PROOF LOAD		REVERSE BENDS		MIN. ELONGATION	LOW RELAXATION			TIME	REMARK	
				mm. ²	TOLERANCE				kg/1000m.	TOLERANCE	0.1%	0.2%		Min Number	Radius (mm)	MIN YIELD STRENGTH (kN)			INITIAL FORCE AT
ASTM A 421/ A421M -2010	TYPE BA	4.98	±0.05				1655	33.6						30.2				* Initial force (70% or 80%) of min. tensile strength	
		6.35	±0.05				1655	52.4						47.2					
		7.01	±0.05				1620	62.5						56.3					
BS 5896 :1980 (Amended 2007)	TYPE WA	4.88	±0.05				1725	32.3						29.1				* Initial force (70% or 80%) of actual breaking load	
		4.98	±0.05				1655	33.6						30.2					
		6.35	±0.05				1620	52.4						47.2					
JIS G 3536 :1999	SWPR1 and SWPD1	4	±0.04	12.6	±0.25	98.9	1670	21.0	17.5			10		56.3				* Initial force (70%) of min. tensile strength	
		4	±0.05	12.6	±0.25	98.9	1770	22.3	18.5			10		54.7					
		4.5	±0.05	15.9	±0.35	125.0	1620	25.8	21.4			15							
		5	±0.05	19.6	±0.39	154.0	1670	32.7	27.2			15							
		5	±0.05	19.6	±0.39	154.0	1770	34.7	28.8			15							
		6	±0.05	28.3	±0.47	222.0	1670	47.3	39.3			15							
		6	±0.05	28.3	±0.47	222.0	1770	50.1	41.6			15							
		7	±0.05	38.5	±0.55	302.0	1570	60.4	50.1			20							
		7	±0.05	38.5	±0.55	302.0	1670	64.3	53.4			20							
AS/NZS 4672:1.2007	STRESS RELIEVED WIRE	4	±0.04	12.57		98.7	1670	21.1	17.9			10						* Initial force (60% , 70% or 80%) of min. breaking load	
		4	±0.05	19.64		154.0	1770	22.3	18.5			10							
		4	±0.05	28.27		222.0	1670	32.7	27.2			15							
		5	±0.05	38.48		302.0	1770	34.7	28.8			15							
		5	±0.06	50.27		395.0	1670	47.3	39.3			15							
		6	±0.06	63.62		499.0	1770	50.1	41.6			15							
		6	±0.06	63.62		499.0	1670	47.3	39.3			15							
		7	±0.06	80.27		583.0	1570	60.4	50.1			20							
		7	±0.06	80.27		583.0	1670	64.3	53.4			20							
MS 1138:2007 (Part 2)		4	±0.05	12.6		98.9	1670	21.0	17.9			10						* Initial force (60% , 70% or 80%) of min. breaking load	
		4	±0.05	12.6		98.9	1770	22.3	18.5			10							
		5	±0.05	19.6		154.0	1670	32.7	27.2			15							
		5	±0.05	19.6		154.0	1770	34.7	28.8			15							
		6	±0.05	28.3		222.0	1670	47.3	39.3			15							
		6	±0.05	28.3		222.0	1770	50.1	41.6			15							
		7	±0.05	38.5		302.0	1570	60.4	50.1			20							
		7	±0.05	38.5		302.0	1670	64.3	53.4			20							