

International Standards

Indian Standards

Standard	Grade	Nominal Diameter	Diameter Tolerance	Nominal Area	Unit Weight	Weight Tolerance	Pitch	Minimum Breaking Load	Minimum Yield Load			Minimum Elongation	Straightness	1,000-hr. Relaxation (% Max.)		MOE
									0.1%	0.2%	1.0%			70%	80%	
IS 14268:1995	Class 1	9.5	+/-0.4	51.6	405	-	12-16	89	-	-	80.1	3.5	Arc height shall be no greater than 25 mm for gauge length 1 m	2.5	-	185-205
		11.1	+/-0.4	69.7	548	-	12-16	120.1	-	-	108.1	3.5		2.5	-	
		12.7	+/-0.4	92.9	730	-	12-16	160.1	-	-	144.1	3.5		2.5	-	
		15.2	+/-0.4	139.4	1094	-	12-16	240.2	-	-	216.2	3.5		2.5	-	
	Class 2	9.5		54.8	432	-	12-16	102.3	-	-	92.1	3.5		2.5	-	
		11.1	+0.66	74.2	582	-	12-16	137.9	-	-	124.1	3.5		2.5	-	
		12.7	-0.15	98.7	775	-	12-16	183.7	-	-	165.3	3.5		2.5	-	
		15.2		140	1102	-	12-16	260.7	-	-	234.5	3.5		2.5	-	

American Specifications

Standard	Grade	Nominal Diameter	Diameter Tolerance	Nominal Area	Unit Weight	Weight Tolerance	Pitch	Minimum Breaking Load	Minimum Yield Load			Minimum Elongation	Straightness	1,000-hr. Relaxation (% Max.)		MOE
									0.1%	0.2%	1.0%			70%	80%	
ASTM A416-2010 (Round Strand)	1725	9.50	+/-0.4	51.60	405.0	-	12-16	89.0	-	-	80.1	3.5	-	3.5(B)	-	
		11.10	+/-0.4	69.70	548.0	-	12-16	120.1	-	-	108.1	3.5	-	3.5(B)	-	
		12.70	+/-0.4	92.90	730.0	-	12-16	160.1	-	-	144.1	3.5	-	3.5(B)	-	
		15.20	+/-0.4	139.40	1094.0	-	12-16	240.2	-	-	216.2	3.5	-	3.5(B)	-	
	1860	9.53	+0.65/-0.15	54.80	432.0	-	12-16	102.3	-	-	92.1	3.5	-	3.5(B)	-	
		11.11	+0.65/-0.15	74.20	582.0	-	12-16	137.9	-	-	124.1	3.5	-	3.5(B)	-	
		12.70	+0.65/-0.15	98.70	775.0	-	12-16	183.7	-	-	165.3	3.5	-	3.5(B)	-	
		15.24	+0.65/-0.15	140.00	1102.0	-	12-16	260.7	-	-	234.6	3.5	-	3.5(B)	-	
		15.75	+0.65/-0.15	149.20	1173.0	-	12-16	277.4	-	-	249.7	3.5	-	3.5(B)	-	

British Specifications

Standard	Grade	Nominal Diameter	Diameter Tolerance	Nominal Area	Unit Weight	Weight Tolerance	Pitch	Minimum Breaking Load	Minimum Yield Load			Minimum Elongation	Straightness	1,000-hr. Relaxation (% Max.)		MOE	
									0.1%	0.2%	1.0%			70%	80%		Gpa or kN/mm2
BS 5896 - 1980	Standard	1770	9.30	+0.3/-0.15	52.00	408.0	+4/-2	12-18	92.0	78.0	-	81.0	3.5	Arc height shall be no greater than 25 mm for gauge length 1 m	-	4.5(A)	185-205
		1860	11.10	+0.3/-0.15	52.00	408.0	+4/-2	12-18	97.0	82.0	-	85.0	3.5		-	4.5(A)	
		1770	11.00	+0.3/-0.15	71.00	557.0	+4/-2	12-18	125.0	106.0	-	110.0	3.5		-	4.5(A)	
		1770	12.50	+0.4/-0.2	93.00	730.0	+4/-2	12-18	164.0	139.0	-	144.0	3.5		-	4.5(A)	
		1860	12.50	+0.4/-0.2	93.00	730.0	+4/-2	12-18	173.0	147.0	-	152.0	3.5		-	4.5(A)	
		1670	15.20	+0.4/-0.2	139.00	1090.0	+4/-2	12-18	232	197	-	204	3.5		-	4.5(A)	
	Super	1860	15.20	+0.4/-0.2	139.00	1090.0	+4/-2	12-18	259.0	220.0	-	228.0	3.5		-	4.5(A)	
		1670	15.20	+0.4/-0.2	139.00	1090.0	+4/-2	12-18	232.0	197.0	-	204.0	3.5		-	4.5(A)	
		1860	9.60	+0.3/-0.15	55.00	432.0	+4/-2	12-18	102.0	87.0	-	90.0	3.5		-	4.5(A)	
		1860	11.30	+0.3/-0.15	75.00	590.0	+4/-2	12-18	139.0	118.0	-	122.0	3.5		-	4.5(A)	
		1860	12.90	+0.4/-0.2	100.00	785.0	+4/-2	12-18	186.0	158.0	-	163.0	3.5		-	4.5(A)	
		1770	15.70	+0.4/-0.2	150.00	1,180.0	+4/-2	12-18	265.0	225.0	-	233.0	3.5		-	4.5(A)	
		1860	15.70	+0.4/-0.2	150.00	1,180.0	+4/-2	12-18	279.0	237.0	-	246.0	3.5		-	4.5(A)	
		BS 5896 - 2012	Y1670S7	15.20	-	139.0	1,086.0	+2/-2	14-18	232-267	204.0	-	-		3.5	Straightness shall be no greater than 25 mm on base line 1 m	
Y1700S7G	18.00		-	223.0	1,742.0	+2/-2	14-18	379-436	334.0	-	-	3.5	-	4.5(A), 2.5(A)			
Y1770S7	9.30		-	52.0	406.1	+2/-2	14-18	91-106	81.0	-	-	3.5	-	4.5(A), 2.5(A)			
Y1770S7	11.00		-	70.0	546.7	+2/-2	14-18	124-143	109.0	-	-	3.5	-	4.5(A), 2.5(A)			
Y1770S7	12.50		-	93.00	726.3	+2/-2	14-18	165-190	145.0	-	-	3.5	-	4.5(A), 2.5(A)			
Y1770S7	15.70		-	150.00	1,172.0	+2/-2	14-18	266-306	234.0	-	-	3.5	-	4.5(A), 2.5(A)			
Y1820S7G	15.20		-	165.0	1,289.0	+2/-2	14-18	300-345	264.0	-	-	3.5	-	4.5(A), 2.5(A)			
Y1860S7	8.00		-	38.0	296.8	+2/-2	14-18	70.7-81.3	62.2	-	-	3.5	-	4.5(A), 2.5(A)			
Y1860S7	9.30		-	52.00	406.0	+2/-2	14-18	96.7-111	85.1	-	-	3.5	-	4.5(A), 2.5(A)			
Y1860S7	9.60		-	55.0	429.6	+2/-2	14-18	102-117	89.8	-	-	3.5	-	4.5(A), 2.5(A)			
Y1860S7	11.30		-	75.0	585.0	+2/-2	14-18	140-161	123.0	-	-	3.5	-	4.5(A), 2.5(A)			
Y1860S7	12.50		-	93.0	726.3	+2/-2	14-18	173-199	152.0	-	-	3.5	-	4.5(A), 2.5(A)			
Y1860S7	12.90		-	100.0	781.0	+2/-2	14-18	186-214	164.0	-	-	3.5	-	4.5(A), 2.5(A)			
Y1860S7	15.20		-	139.0	1,086.0	+2/-2	14-18	259-298	228.0	-	-	3.5	-	4.5(A), 2.5(A)			
Y1860S7	15.70		-	150.0	1,172.0	+2/-2	14-18	279-321	246.0	-	-	3.5	-	4.5(A), 2.5(A)			
Y1860S7G	12.70	-	112.00	874.7	+2/-2	14-18	208-239	183.0	-	-	3.5	-	4.5(A), 2.5(A)				

European Standards

Standard	Grade	Nominal Diameter	Diameter Tolerance	Nominal Area	Unit Weight	Weight Tolerance	Pitch	Minimum Breaking Load	Minimum Yield Load			Minimum Elongation	Straightness	1,000-hr. Relaxation (% Max.)		MOE
									0.1%	0.2%	1.0%			70%	80%	
prEN 10138 - 2009	Y1770S7	9.30	-	52.0	406.1	+2/-2	14-18	92.0-106.0	81.0	-	-	3.5	Arc height shall be no greater than 25 mm for gauge length 1 m	Initial Load (70%)		May be taken to be 195 GPa (kN/mm2)
		11.00	-	70.0	546.7	+2/-2	14-18	124.0-143.0	109.0	-	-	3.5		-	4.5(A), 2.5(A)	
		12.50	-	93.0	726.3	+2/-2	14-18	165.0-190.0	145.0	-	-	3.5		-	4.5(A), 2.5(A)	
		15.20	-	139.0	1,086.0	+2/-2	14-18	246.0-283.0	216.0	-	-	3.5		-	4.5(A), 2.5(A)	
	Y1860S7	15.70	-	150.0	1,172.0	+2/-2	14-18	266.0-306.0	234.0	-	-	3.5		-	4.5(A), 2.5(A)	
		9.30	-	52.0	406.1	+2/-2	14-18	96.7-111.0	85.1	-	-	3.5		-	4.5(A), 2.5(A)	
		9.60	-	55.0	429.6	+2/-2	14-18	102.0-117.0	89.8	-	-	3.5		-	4.5(A), 2.5(A)	
		11.30	-	75.0	585.8	+2/-2	14-18	140.0-161.0	123.0	-	-	3.5		-	4.5(A), 2.5(A)	
		12.50	-	93.0	726.3	+2/-2	14-18	173.0-199.0	152.0	-	-	3.5		-	4.5(A), 2.5(A)	
		12.90	-	100.0	781.0	+2/-2	14-18	186.0-214.0	164.0	-	-	3.5		-	4.5(A), 2.5(A)	
		15.20	-	139.0	1,086.0	+2/-2	14-18	259.0-298.0	228.0	-	-	3.5		-	4.5(A), 2.5(A)	
	15.70	-	150.0	1,172.0	+2/-2	14-18	279.0-321.0	246.0	-	-	3.5	-		4.5(A), 2.5(A)		
	Y1860S7G	12.70	-	112.0	874.7	+2/-2	14-18	208.0-239.0	183.0	-	-	3.5		-	4.5(A), 2.5(A)	
	Y1860S7G	15.20	-	165.0	1,289.0	+2/-2	14-18	307.0-353.0	270.0	-	-	3.5		-	4.5(A), 2.5(A)	
	Y1820S7G	15.20	-	165.0	1,289.0	+2/-2	14-18	300.0-345.0	264.0	-	-	3.5		-	4.5(A), 2.5(A)	