



## Blue Strand 6x19 Class to API steel core (Metric)

Rope diameter	Approximate mass		Minimum breaking force (Fmin)									Axial stiffness @20% load		Torque generated @20% load		Metallic cross section	
	In air		1770 grade			1960 grade			2160 grade					Ordinary			
mm	kg/m	lb/ft	kN	Tonnes	2000 lbs	kN	Tonnes	2000 lbs	kN	Tonnes	2000 lbs	MN	Mlbs	N.m	lbs.ft	mm <sup>2</sup>	in <sup>2</sup>
26	2.70	1.81	426	43.4	47.9	472	48.1	53.0	520	53.0	58.4	31.3	7.0	172	127	304	0.470
28	3.14	2.11	494	50.4	55.5	547	55.8	61.4	603	61.5	67.7	36.3	8.2	214	158	352	0.546
32	4.10	2.76	645	65.7	72.5	715	72.9	80.3	787	80.2	88.4	47.4	11	320	236	460	0.713
36	5.18	3.48	817	83.3	91.8	904	92.2	102	997	102	112	59.9	13	456	336	582	0.902
38	5.78	3.88	910	92.8	102	1010	103	113	1110	113	125	66.8	15	537	396	648	1.00
40	6.40	4.30	1010	103	113	1120	114	126	1230	125	138	74.0	17	627	462	718	1.11
44	7.74	5.20	1220	124	137	1350	138	152	1490	152	167	89.5	20	832	613	869	1.35
48	9.22	6.20	1450	148	163	1610	164	181	1770	180	199	107	24	1082	798	1034	1.60
52	10.8	7.26	1700	173	191	1890	193	212	2080	212	234	125	28	1376	1015	1214	1.88



## Blue Strand 6x19 Class to API steel core (Imperial)

Rope diameter		Approximate mass		Minimum breaking force (Fmin)									Axial stiffness @20% load		Torque generated @20% load		Metallic cross section	
In air		IPS			EIPS			EEIPS			Ordinary							
in	mm	kg/m	lb/ft	kN	Tonnes	2000 lbs	kN	Tonnes	2000 lbs	kN	Tonnes	2000 lbs	MN	Mlbs	N.m	lbs.ft	mm <sup>2</sup>	in <sup>2</sup>
1	25.4	2.75	1.85	399	40.7	44.8	460	46.9	51.7	506	51.6	56.8	29.8	6.7	164	121	290	0.449
1 <sup>1</sup> / <sub>8</sub>	28.6	3.48	2.34	503	51.3	56.5	578	58.9	64.9	636	64.8	71.4	37.8	8.5	231	171	367	0.569
1 <sup>1</sup> / <sub>4</sub>	31.8	4.30	2.89	617	62.9	69.3	711	72.5	79.9	782	79.7	87.8	46.8	11	317	233	454	0.704
1 <sup>3</sup> / <sub>8</sub>	34.9	5.19	3.49	743	75.7	83.5	854	87.1	95.9	943	96.1	106	56.3	13	417	308	547	0.848
1 <sup>1</sup> / <sub>2</sub>	38.1	6.19	4.16	880	89.7	98.9	1010	103	113	1110	113	125	67.1	15	539	397	652	1.01
1 <sup>5</sup> / <sub>8</sub>	41.3	7.26	4.88	1020	104	115	1170	119	131	1300	133	146	78.8	18	676	499	765	1.19
1 <sup>3</sup> / <sub>4</sub>	44.5	8.42	5.66	1180	120	133	1360	139	153	1500	153	169	91.4	21	846	624	887	1.38
1 <sup>7</sup> / <sub>8</sub>	47.6	9.66	6.49	1350	138	152	1550	158	174	1710	174	192	105	24	1033	762	1017	1.58
2	50.8	11.0	7.39	1530	156	172	1760	179	198	1930	197	217	119	27	1252	923	1159	1.80

Figures quoted within published tables represent our standard products.

Bridon specialise in the development of products to suit your individual needs, please contact us directly and we will be pleased to develop a specification to match your requirements.