

6x19 IWRC Technical Data



6x19 Class

6x19 Seale
 6x19 Warrington
 6x21 Filler Wire
 Type U
 6x21 Seale
 6x25 Filler Wire
 Type W
 6x25 Seale
 6x26 Warrington
 Seale

Rope Diameter		Approx. Weight (lb./ft.)	Minimum Breaking Force*		
			IPS**	EIPS**	EEIPS**
Inches	mm.	IWRC	Tons	Tons	Tons
1/4	6.4	0.12	2.94	3.40	3.74
5/16	7.9	0.18	4.58	5.27	5.80
3/8	9.5	0.26	6.56	7.55	8.30
7/16	11.1	0.35	8.89	10.2	11.2
1/2	12.7	0.46	11.5	13.3	14.6
9/16	14.3	0.59	14.5	16.8	18.5
5/8	15.9	0.72	17.7	20.6	22.7
3/4	19.1	1.04	25.6	29.4	32.4
7/8	22.2	1.42	34.6	39.8	43.8
1	25.4	1.85	44.9	51.7	56.9
1-1/8	28.6	2.34	56.5	65.0	71.5
1-1/4	31.8	2.89	69.4	79.9	87.9
1-3/8	34.9	3.50	83.5	96.0	106
1-1/2	38.1	4.16	98.9	114	125
1-5/8	41.3	4.88	115	132	146
1-3/4	44.5	5.67	133	153	169
1-7/8	47.6	6.50	152	174	192
2	50.8	7.39	172	198	217
2-1/8	54.0	8.35	192	221	244
2-1/4	57.2	9.36	215	247	272
2-3/8	60.3	10.4	239	274	302
2-1/2	63.5	11.6	262	302	332
2-5/8	66.7	12.8	288	331	364
2-3/4	69.9	14.0	314	361	397
2-7/8	73.0	15.3	341	393	
3	76.2	16.6	370	425	
3-1/8	79.4	18.0	399	458	
3-1/4	82.6	19.5	429	492	
3-3/8	85.7	21.0	459	529	
3-1/2	88.9	22.6	491	564	

*To convert to Kilonewtons (kN), multiply tons (minimum breaking force) by 8.896;
1 lb = 4.448 newtons (N).

**Minimum breaking forces listed above apply to ropes with bright or drawn galvanized wires. Minimum breaking forces are 10% lower for ropes with wires galvanized at finish size.

For further information on additional constructions and diameters, contact DCL's customer service department.

Wire Rope Technical Board - Wire Rope Users Manual, Fourth Edition • 97



6x36 IWRC Technical Data



6x36 Class

6x31
 Warrington Seale
6x33
6x36
 Warrington Seale
6x41
 Warrington Seale
6x43 Filler Wire Seale
6x49 Filler Wire Seale

Rope Diameter		Approx. Weight (lb./ft.)	Minimum Breaking Force*		
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Inches	mm.	IWRC	Tons	Tons	Tons
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5/8	15.9	0.72	17.9	20.6	22.7
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1	25.4	1.85	44.9	51.7	56.9
1-1/8	28.6	2.34	56.5	65.0	71.5
1-1/4	31.8	2.89	69.4	79.9	87.9
1-3/8	34.9	3.50	83.5	96.0	106
1-1/2	38.1	4.16	98.9	114	125
1-5/8	41.3	4.88	115	132	146
1-3/4	44.5	5.67	133	153	169
1-7/8	47.6	6.50	152	174	192
2	50.8	7.39	172	198	217
2-1/8	54.0	8.35	192	221	244
2-1/4	57.2	9.36	215	247	282
2-3/8	60.3	10.4	239	274	302
2-1/2	63.5	11.6	262	302	332
2-5/8	66.7	12.8	288	331	364
2-3/4	79.9	14.0	314	361	397
2-7/8	73.0	15.3	341	392	432
3	76.2	16.6	370	425	468
3-1/8	79.4	18.0	399	458	504
3-1/4	82.6	19.5	429	492	543
3-3/8	85.7	21.0	459	529	582
3-1/2	88.9	22.7	491	564	621
3-5/8	92.1	24.3	523	602	663
3-3/4	95.3	26.0	558	641	705

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