Specifications

Nominal Size (1)			Polypropylene 3 Strand & 8 Braid			PolyPlus™ Poly/Dac™ 3 Strand & 8 Braid			Nylon 3 Strand & 8 Braid		
			Linear Density (2)	Min. Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min. Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min. Breaking Force (3)	Working Load Ratio (4)
Approx. Dia.	Size # (Circ.)	Approx. mm	Approx. Lbs. per 100'	Lbs.	Range Ratio	Approx. Lbs. per 100'	Lbs.	Range Ratio	Approx. Lbs. per 100'	Lbs.	Range Ratio
3/16"	5/8"	5	0.65	650	5 - 12 to 1						
1/4"	3/4"	6	1.15	1,125	5 - 12 to 1	1.6	1,200	5 - 12 to 1	1.65	1,665	5 - 12 to 1
5/16"	1"	8	1.80	1,710	5 - 12 to 1	2.5	1,870	5 - 12 to 1	2.6	2,610	5 - 12 to 1
3/8"	1-18"	10	2.60	2,430	5 - 12 to 1	3.6	2,700	5 - 12 to 1	3.7	3,700	5 - 12 to 1
7/16"	1-1/4"	11	3.50	3,150	5 - 12 to 1	4.8	3,500	5 - 12 to 1	5.1	5,050	5 - 12 to 1
1/2"	1-1/2"	12	4.60	3,780	5 - 12 to 1	6.2	4,400	5 - 12 to 1	6.6	6,525	5 - 12 to 1
9/16"	1-3/4"	14	5.90	4,590	5 - 12 to 1	7.9	5,200	5 - 12 to 1	8.4	8,250	5 - 12 to 1
5/8"	1-3/4"	17	7.20	5,580	5 - 12 to 1	9.5	6,100	5 - 12 to 1	10.4	10.200	5 - 12 to 1
3/4"	2"	18	10.4	7,650	5 - 12 to 1	13.5	8,400	5 - 12 to 1	15	14,500	5 - 12 to 1
13/16"	2-1/2"	20	12.70	8,900	5 - 12 to 1						
7/8"	2-3/4"	22	14.2	10,350	5 - 12 to 1	18	11,125	5 - 12 to 1	20.4	19,500	5 - 12 to 1
1"	3"	24	18.0	12,825	5 - 12 to 1	21.8	13,175	5 - 12 to 1	26.6	25,225	5 - 12 to 1
1-1/8"	3-1/2"	28	22.8	16,000	5 - 12 to 1	27.1	16,325	5 - 12 to 1	33.6	31,500	5 - 12 to 1
1-1/4"	3-3/4"	30	27.6	19,350	5 - 12 to 1	33.4	19,900	5 - 12 to 1	41.5	38,700	5 - 12 to 1
1-5/16"	4"	32	30.4	21,150	5 - 12 to 1	36.5	21,950	5 - 12 to 1	45.7	42,500	5 - 12 to 1
1-1/2"	4-1/2"	36	39.4	27,350	5 - 12 to 1	47	28,250	5 - 12 to 1	59.7	55,000	5 - 12 to 1
1-5/8"	5"	40	46.0	31,950	5 - 12 to 1	55	32,950	5 - 12 to 1	70	64,400	5 - 12 to 1
1-3/4"	5-1/2"	44	53.0	36,600	5 - 12 to 1	62	36,850	5 - 12 to 1	81	74,400	5 - 12 to 1
2"	6"	48	69.0	46,800	5 - 12 to 1	81	48,050	5 - 12 to 1	106	96,900	5 - 12 to 1
2-1/8"	6-1/2"	52	78.0	52,650	5 - 12 to 1	91	53,950	5 - 12 to 1	120	108,900	5 - 12 to 1
2-1/4"	7"	56	88.0	59,400	5 - 12 to 1	101	59,950	5 - 12 to 1	134	121,500	5 - 12 to 1
2-1/2"	7-1/2"	60	107	72,000	5 - 12 to 1	124	73,550	5 - 12 to 1	165	149,400	5 - 12 to 1
2-5/8"	8"	64	120	80,500	5 - 12 to 1	136	80,650	5 - 12 to 1	181	163,800	5 - 12 to 1
2-3/4"	8-1/2"	68	141	94,500	5 - 12 to 1	161	95,400	5 - 12 to 1	217	193,800	5 - 12 to 1
3"	9"	72	153	102,600	5 - 12 to 1	174	102,900	5 - 12 to 1	237	209,800	5 - 12 to 1
3-1/4"	10"	80	186	121,500	5 - 12 to 1	212	122,800	5 - 12 to 1	288	248,800	5 - 12 to 1
3-1/2"	11"	88	223	144,000	5 - 12 to 1	250	144,800	5 - 12 to 1	345	297,700	5 - 12 to 1
4"	12"	96	272	171,900	5 - 12 to 1	300	171,000	5 - 12 to 1	420	356,400	5 - 12 to 1
4-1/4"	13"	104	315	198,000	5 - 12 to 1	345	195,800	5 - 12 to 1	488	412,200	5 - 12 to 1
4-1/2"	14"	112	360	223,200	5 - 12 to 1	395	224,800	5 - 12 to 1	561	465,300	5 - 12 to 1
5"	15"	120	420	256,500	5 - 12 to 1	455	254,700	5 - 12 to 1	656	540,000	5 - 12 to 1
5-5/16"	16"	128	474	287,100	5 - 12 to 1	506	282,600	5 - 12 to 1			
5-5/8"	17"	136	531	319,500	5 - 12 to 1	562	312,300	5 - 12 to 1	715	720,000	5 - 12 to 1
6"	18"	144	603	358,200	5 - 12 to 1	635	351,000	5 - 12 to 1	795	800,000	5 - 12 to 1

* 1 Diameter is approximate and is actually determined by linear density. (Pounds per 100')
* 2 Linear Density is considered average weight per 100'. Tolerances: 3/16" - 5/16" diameters inclusive +plus or -minus 10%; 3/8" - 9/16" inclusive +plus or -minus 18%; and 5/8" and up +plus or -minus 5%.
* 3 New rope Minimum Breaking Strength is based on data from a number of manufacturers and represents a value of 2 standard deviations below the mean, established by regression analysis.
* 4 For critical applications where life or limb of Dynamic Loading is present, use the higher ration division. Example: 10,000 pounds ÷ 12 = 833 pounds working load ratio.

Specifications

Nominal Size (1)			Polyester 3 Strand & 8 Braid			Manila 3 Strand			CWC Steel Pro™ Hi Strength 3 Strand & 8 Braid		
			Linear Density (2)	Min. Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min. Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min. Breaking Force (3)	Working Load Ratio (4)
Approx. Dia.	Size # (Circ.)	Approx. mm	Approx. Lbs. per 100'	Lbs.	Range Ratio	Approx. Lbs. per 100'	Lbs.	Range Ratio	Approx. Lbs. per 100'	Lbs.	Range Ratio
3/16"	5/8"	5	1.10	765	5 - 12 to 1	1.37	405	5 - 12 to 1			
1/4"	3/4"	6	1.95	1,315	5 - 12 to 1	1.82	540	5 - 12 to 1	1.17	1,673	5 - 12 to 1
5/16"	1"	8	3.05	2,050	5 - 12 to 1	2.64	900	5 - 12 to 1	2.54	2,795	5 - 12 to 1
3/8"	1-18"	10	4.35	2,900	5 - 12 to 1	3.79	1,215	5 - 12 to 1	2.68	3,686	5 - 12 to 1
7/16"	1-1/4"	11	5.9	3,915	5 - 12 to 1	4.87	1,575	5 - 12 to 1	3.35	4,413	5 - 12 to 1
1/2"	1-1/2"	12	7.7	5,085	5 - 12 to 1	6.96	2,385	5 - 12 to 1	4.69	5,640	5 - 12 to 1
9/16"	1-3/4"	14	9.8	6,435	5 - 12 to 1	9.63	3,105	5 - 12 to 1	6.70	7,629	5 - 12 to 1
5/8"	1-3/4"	17	12.0	7,825	5 - 12 to 1	12.7	3,960	5 - 12 to 1	8.04	9,119	5 - 12 to 1
3/4"	2"	18	17.2	11,200	5 - 12 to 1	15.9	4,860	5 - 12 to 1	10.72	11,541	5 - 12 to 1
13/16"	2-1/2"	20				18.6	5,850	5 - 12 to 1			
7/8"	2-3/4"	22	23.4	15,225	5 - 12 to 1	21.4	6,930	5 - 12 to 1	16.08	17,153	5 - 12 to 1
1"	3"	24	30.4	19,775	5 - 12 to 1	25.7	8,100	5 - 12 to 1	20.09	20,960	5 - 12 to 1
1-1/8"	3-1/2"	28	38.5	24,800	5 - 12 to 1	34.3	10,800	5 - 12 to 1	25.45	26,149	5 - 12 to 1
1-1/4"	3-3/4"	30	46.5	29,800	5 - 12 to 1	39.7	12,150	5 - 12 to 1	30.81	31,623	5 - 12 to 1
1-5/16"	4"	32	51	32,500	5 - 12 to 1	45.6	13,500	5 - 12 to 1			
1-1/2"	4-1/2"	36	67	42,200	5 - 12 to 1	57.0	16,650	5 - 12 to 1	34.83	35,395	5 - 12 to 1
1-5/8"	5"	40	78	49,250	5 - 12 to 1	71.1	20,250	5 - 12 to 1	42.87	43,589	5 - 12 to 1
1-3/4"	5-1/2"	44	91	57,000	5 - 12 to 1	85.0	23,850	5 - 12 to 1	54.93	55,981	5 - 12 to 1
2"	6"	48	117	72,000	5 - 12 to 1	102	27,900	5 - 12 to 1	61.35	73,234	5 - 12 to 1
2-1/8"	6-1/2"	52	133	81,000	5 - 12 to 1	120	32,400	5 - 12 to 1	72.60	86,268	5 - 12 to 1
2-1/4"	7"	56	149	90,500	5 - 12 to 1	139	36,900	5 - 12 to 1	85.14	101,142	5 - 12 to 1
2-1/2"	7-1/2"	60	184	110,000	5 - 12 to 1	164	42,300	5 - 12 to 1	100.16	118,820	5 - 12 to 1
2-5/8"	8"	64	203	121,000	5 - 12 to 1	182	46,800	5 - 12 to 1	113.93	134,516	5 - 12 to 1
2-3/4"	8-1/2"	68	243	144,000	5 - 12 to 1	215	54,900	5 - 12 to 1	130.21	153,591	5 - 12 to 1
3"	9"	72	264	156,000	5 - 12 to 1	230	57,500	5 - 12 to 1	166.52	196,529	5 - 12 to 1
3-1/4"	10"	80	323	188,500	5 - 12 to 1	284	69,500	5 - 12 to 1	206.58	237,502	5 - 12 to 1
3-1/2"	11"	88	387	225,000	5 - 12 to 1	349	81,900	5 - 12 to 1	246.65	280,313	5 - 12 to 1
4"	12"	96	470	270,000	5 - 12 to 1	414	94,500	5 - 12 to 1	291.72	324,476	5 - 12 to 1
4-1/4"	13"	104	547	310,000	5 - 12 to 1						
4-1/2"	14"	112	630	355,000	5 - 12 to 1						
5"	15"	120	732	410,000	5 - 12 to 1						
5-5/16"	16"	128	825	459,000	5 - 12 to 1						
5-5/8"	17"	136	925	508,500,	5 - 12 to 1						
6"	18"	144	1050	567,000	5 - 12 to 1						

* 1 Diameter is approximate and is actually determined by linear density. (Pounds per 100')
* 2 Linear Density is considered average weight per 100'. Tolerances: 3/16" - 5/16" diameters inclusive +plus or -minus 10%; 3/8" - 9/16" inclusive +plus or -minus 18%; and 5/8" and up +plus or -minus 5%.
* 3 New rope Minimum Breaking Strength is based on data from a number of manufacturers and represents a value of 2 standard deviations below the mean, established by regression analysis.
* 4 For critical applications where life or limb of Dynamic Loading is present, use the higher ration division. Example: 10,000 pounds ÷ 12 = 833 pounds working load ratio.

Specifications

Nominal Size (1)			CWC Blue Steel™ Super Strong Poly 3 Std & 8 Bd			CWC Ice Blue™ Combo Super Strong Blended 3 Std & 8 Bd			PolyPlus™ - 3 Std & **8 Bd Plus-3™ - 3 Std & **8 Bd		
			Linear Density (2)	Min. Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min. Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min. Breaking Force (3)	Working Load Ratio (4)
Approx. Dia.	Size # (Circ.)	Approx. mm	Approx. Lbs. per 100'	Lbs.	Range Ratio	Approx. Lbs. per 100'	Lbs.	Range Ratio	Approx. Lbs. per 100'	Lbs.	Range Ratio
3/16"	5/8"	5	.073	1000	5 - 12 to 1						
1/4"	3/4"	6	1.23	1670	5 - 12 to 1				1.6	1,375	5 - 12 to 1
5/16"	1"	8	2.22	3170	5 - 12 to 1				2.5	2,160	5 - 12 to 1
3/8"	1-18"	10	2.8	3920	5 - 12 to 1	3.6	4,250	5 - 12 to 1	3.6	3,100	5 - 12 to 1
7/16"	1-1/4"	11	3.33	4870	5 - 12 to 1	5.0	5,360	5 - 12 to 1	4.8	4,025	5 - 12 to 1
1/2"	1-1/2"	12	4.88	6870	5 - 12 to 1	6.4	6,560	5 - 12 to 1	6.2	5,075	5 - 12 to 1
9/16"	1-3/4"	14	6.65	9320	5 - 12 to 1	8.2	8,250	5 - 12 to 1	7.9	6,000	5 - 12 to 1
5/8"	1-3/4"	17	8.5	11,500	5 - 12 to 1	10.4	10,280	5 - 12 to 1	9.5	7,000	5 - 12 to 1
3/4"	2"	18	10.9	14,600	5 - 12 to 1	14	13,340	5 - 12 to 1	13.5	9,800	5 - 12 to 1
13/16"	2-1/2"	20	13.3	17,600							
7/8"	2-3/4"	22	16.3	21,100	5 - 12 to 1	20	18,340	5 - 12 to 1	18	12,800	5 - 12 to 1
1"	3"	24	19.2	24,300	5 - 12 to 1	24.3	22,400	5 - 12 to 1	21.8	15,100	5 - 12 to 1
1-1/8"	3-1/2"	28	26.2	31,600	5 - 12 to 1	32	29,500	5 - 12 to 1	27.1	18,800	5 - 12 to 1
1-1/4"	3-3/4"	30	29.6	34,600	5 - 12 to 1	37	34,000	5 - 12 to 1	33.4	22,900	5 - 12 to 1
1-5/16"	4"	32	34.0	48,500					36.5	25,300	5 - 12 to 1
1-1/2"	4-1/2"	36	43.3	58,500	5 - 12 to 1	56	49,900	5 - 12 to 1	47	32,500	5 - 12 to 1
1-5/8"	5"	40	53.2	70,000	5 - 12 to 1				55	37,900	5 - 12 to 1
1-3/4"	5-1/2"	44	65.1	87,800	5 - 12 to 1	78.3	69,800	5 - 12 to 1	62	42,400	5 - 12 to 1
2"	6"	48	83.4	95,500	5 - 12 to 1	98.4	87,200	5 - 12 to 1	81	55,300	5 - 12 to 1
2-1/8"	6-1/2"	52	93.7	112,700		112.1	99,200	5 - 12 to 1	91	62,000	5 - 12 to 1
2-1/4"	7"	56	112.7	128,700	5 - 12 to 1	133.7	118,400	5 - 12 to 1	101	68,900	5 - 12 to 1
2-1/2"	7-1/2"	60	128.6	145,000	5 - 12 to 1	149.6	132,600	5 - 12 to 1	124	84,600	5 - 12 to 1
2-5/8"	8"	64	145.4	170,700	5 - 12 to 1	168.5	149,200	5 - 12 to 1	140	98,600	5 - 12 to 1
2-3/4"	8-1/2"	68	173.0	185,200					166	116,600	5 - 12 to 1
3"	9"	72	187.7	221,000	5 - 12 to 1	212	187,800	5 - 12 to 1	179	124,500	5 - 12 to 1
3-1/4"	10"	80	225.2	254,400	5 - 12 to 1				216	149,200	5 - 12 to 1
3-1/2"	11"	88	259.4	328,500					257	176,900	5 - 12 to 1
4"	12"	96	334.9		5 - 12 to 1				311	213,400	5 - 12 to 1
4-1/4"	13"	104							360	245,500	5 - 12 to 1
4-1/2"	14"	112	426.9		5 - 12 to 1				411	279,500	5 - 12 to 1
5"	15"	120	481.4		5 - 12 to 1				477	323,400	5 - 12 to 1
5-5/16"	16"	128							535	361,300	5 - 12 to 1
5-5/8"	17"	136							592	392,100	5 - 12 to 1
6"	18"	144							665	433,500	5 - 12 to 1

* 1 Diameter is approximate and is actually determined by linear density. (Pounds per 100')
* 2 Linear Density is considered average weight per 100'. Tolerances: 3/16" - 5/16" diameters inclusive +plus or -minus 10%; 3/8" - 9/16" inclusive +plus or -minus 18%; and 5/8" and up +plus or -minus 5%.
* 3 New rope Minimum Breaking Strength is based on data from a number of manufacturers and represents a value of 2 standard deviations below the mean, established by regression analysis.
* 4 For critical applications where life or limb of Dynamic Loading is present, use the higher ration division. Example: 10,000 pounds ÷ 12 = 833 pounds working load ratio.

** 8 braid specifications shown on 1-1/2" diameter and larger.

Specifications

Nominal Size (1)			CWC Blue Steel™ Copolymer 12 Strand			Spectra® 12 Strand			Plasma® 12 Strand		
			Linear Density (2)	Min. Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min. Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min. Breaking Force (3)	Working Load Ratio (4)
Approx. Dia.	Size # (Circ.)	Approx. mm	Approx. Lbs. per 100'	Lbs.	Range Ratio	Approx. Lbs. per 100'	Lbs.	Range Ratio	Approx. Lbs. per 100'	Lbs.	Range Ratio
1/4"	3/4"	6			5 - 12 to 1	1.6	6,000	5 - 12 to 1	1.6	8,000	5 - 12 to 1
5/16"	1"	8			5 - 12 to 1	2.6	9,000	5 - 12 to 1	2.5	11,700	5 - 12 to 1
3/8"	1-18"	10			5 - 12 to 1	3.7	13,900	5 - 12 to 1	3.7	17,500	5 - 12 to 1
7/16"	1-1/4"	11			5 - 12 to 1	4.2	14,800	5 - 12 to 1	4.2	21,000	5 - 12 to 1
1/2"	1-1/2"	12	5.40	6,900	5 - 12 to 1	6.4	22,500	5 - 12 to 1	6.4	31,300	5 - 12 to 1
9/16"	1-3/4"	14	7.35	9,400	5 - 12 to 1	7.9	27,700	5 - 12 to 1	7.9	37,900	5 - 12 to 1
5/8"	1-3/4"	17	9.60	12,200	5 - 12 to 1	10.6	36,600	5 - 12 to 1	10.6	51,400	5 - 12 to 1
3/4"	2"	18	12.50	15.900	5 - 12 to 1	13.3	43,300	5 - 12 to 1	13.3	68,500	5 - 12 to 1
7/8"	2-3/4"	22	17.00	21,200	5 - 12 to 1	19.6	61,000	5 - 12 to 1	19.6	92,600	5 - 12 to 1
1"	3"	24	19.40	25,200	5 - 12 to 1	23.4	72,000	5 - 12 to 1	23.4	110,000	5 - 12 to 1
1-1/8"	3-1/2"	28	26.50	33,500	5 - 12 to 1	31.9	91,800	5 - 12 to 1	31.9	147,000	5 - 12 to 1
1-1/4"	3-3/4"	30	30.30	37,000	5 - 12 to 1	36.2	102,600	5 - 12 to 1	36.2	165,000	5 - 12 to 1
1-5/16"	4"	32	34.30	42,800	5 - 12 to 1	41.7	114,300	5 - 12 to 1	41.7	196,000	5 - 12 to 1
1-1/2"	4-1/2"	36	43.10	53,200	5 - 12 to 1	51.7	414,300	5 - 12 to 1	51.7	221,000	5 - 12 to 1
1-5/8"	5"	40	53.10	65,600	5 - 12 to 1	65.7	167,400	5 - 12 to 1	65.7	291,000	5 - 12 to 1
1-3/4"	5-1/2"	44	65.50	78,400	5 - 12 to 1	78.4	198,000	5 - 12 to 1	78.4	314,000	5 - 12 to 1
2"	6"	48	80.20	96,000	5 - 12 to 1	91.4	225,000	5 - 12 to 1	91.4	355,000	5 - 12 to 1
2-1/8"	6-1/2"	52	93.50	110,600	5 - 12 to 1	109	270,000	5 - 12 to 1	109	428,000	5 - 12 to 1
2-1/4"	7"	56	108.50	126,600	5 - 12 to 1	122	317,700	5 - 12 to 1	122	481,000	5 - 12 to 1
2-1/2"	7-1/2"	60	124.40	144,700	5 - 12 to 1	148	360,000	5 - 12 to 1			5 - 12 to 1
2-5/8"	8"	64	141.10	162,800	5 - 12 to 1	167	370,800	5 - 12 to 1	167	560,000	5 - 12 to 1
2-3/4"	8-1/2"	68	156.50	181,900	5 - 12 to 1	187	405,000	5 - 12 to 1			5 - 12 to 1
3"	9"	72	178.10	206,900	5 - 12 to 1	214	508,500	5 - 12 to 1	214	780,000	5 - 12 to 1
3-1/4"	10"	80	220.00	250,530	5 - 12 to 1	261	616,500	5 - 12 to 1	261	940,000	5 - 12 to 1
4"	12"	96	314.50	353,400	5 - 12 to 1	394	900,000	5 - 12 to 1	394	1,520,000	5 - 12 to 1

* 1 Diameter is approximate and is actually determined by linear density. (Pounds per 100')
* 2 Linear Density is considered average weight per 100'. Tolerances: 3/16" - 5/16" diameters inclusive +plus or -minus 10%; 3/8" - 9/16" inclusive +plus or -minus 18%; and 5/8" and up +plus or -minus 5%.
* 3 New rope Minimum Breaking Strength is based on data from a number of manufacturers and represents a value of 2 standard deviations below the mean, established by regression analysis.
* 4 For critical applications where life or limb of Dynamic Loading is present, use the higher ration division. Example: 10,000 pounds ÷ 12 = 833 pounds working load ratio.