



PRODUCT CATALOG

Torque-Balanced

- ▶ Resists rotation
- ▶ Non-twisting
- ▶ Better and longer service life
- ▶ Higher strength to weight ratio

Torque-Balanced wire rope resists rotation. At loads approaching the elastic limit—75% of rope breaking load—tests show rotation to be less than 1° per foot of rope length. Even when there is a sudden release of load, Torque-Balanced wire ropes will not kink or form loops and hockles, as in conventional 6-strand wire ropes. Torque-Balanced wire rope will give you better and longer service life free of the problems associated with conventional wire ropes in undersea operations.

The elastic limit of Torque-Balanced wire rope is 75% of normal rope breaking load, compared to approximately 50% for 6-strand ropes. The importance is that the payload of a Torque-Balanced wire rope, at the elastic limit, is 50% greater than that of an equal strength 6-strand rope with no difference in diameter. Additionally, since a Torque-Balanced wire rope weighs less (about 10%) than a conventional 6-strand rope of the same size and strength, it has a much higher strength to weight ratio. **Specify: Bright, Galvanized, or Jacketed wire rope.**

Dimensions, Minimum Breaking Forces and Weights for Torque-Balanced

Size Inches	Construction	Weight in Air lbs/ft.	Approx. Elastic Limit lbs.	Minimum Breaking Force lbs.	0.2% Yield Strength lbs.	Maximum Length ft.
3/16	3x19 Seale	0.0589	3,000	4,000	3,500	50,000
1/4	3x19 Seale	0.0997	5,036	6,750	5,900	45,000
5/16	3x19 Seale	0.153	7,725	10,300	9,100	30,000
3/8	3x19 Seale	0.220	11,100	14,800	13,000	50,000
7/16	3x19 Seale	0.304	15,000	20,000	17,600	42,000
1/2	3x19 Seale	0.392	19,275	25,700	22,600	98,000
9/16	3x19 Seale	0.492	24,375	32,500	28,600	77,000
5/8	3x19 Seale	0.602	30,225	40,300	35,500	62,000
3/4	3x19 Seale	0.897	43,350	57,800	50,900	43,000
7/8	3x19 Seale	1.21	58,500	78,000	68,600	32,000
1	3x19 Seale	1.56	75,450	100,600	88,500	24,000
1 1/8	3x19 Seale	1.96	93,000	124,000	109,000	19,000
1/2	3x41 Seale FW	0.417	19,275	25,700	22,600	98,000
9/16	3x41 Seale FW	0.517	24,375	32,500	28,600	77,000
5/8	3x41 Seale FW	0.631	30,225	40,300	35,500	62,000
3/4	3x46 Seale FW	0.903	43,350	57,800	50,900	43,000
7/8	3x46 Seale FW	1.27	58,500	78,000	68,600	32,000
1	3x46 Seale FW	1.64	75,450	100,600	88,500	24,000
1 1/8	3x46 Seale FW	2.07	93,000	124,000	109,000	19,000

1 1/4	3x46 Seale FW	2.60	118,500	158,000	139,000	15,000
1 3/8	3x46 Seale FW	3.10	141,000	188,000	165,000	12,000
1 1/2	3x46 Seale FW	3.69	166,500	222,000	195,000	10,800

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MacWhyte, a WireCo WorldGroup brand, understands that results matter and we produce high quality wire rope and wire rope assemblies that perform to your exacting specifications. We employ the most experienced, talented, licensed engineers in the industry to design solutions for your most complex mechanical systems. Find out for yourself how MacWhyte wire ropes and custom assemblies prove themselves time and time again in the field. **MacWhyte: Results by Design.**