

## Phantom-12

**Phantom-12** is a specially designed rope for stadium, theatre and set rigging comprised of high-heat-resistant Technora® filament fiber with a wrap of yarn of Yale's Igrip fiber. The Technora® filament provides strength and high-heat resistance where the polyester over-wrap provides a soft hand.

- Grips in your hand comfortably, making rigging and set work easier to grip, hold, adjust and control.

- Grips winch surfaces securely so you can use fewer wraps to control loads more easily.
- Grip will hold highly loaded knots and hitches.
- Glides when released from stoppers and cam devices without kinking or hockling.
- Easily spliced.
- Glides through blocks easily.

**Technora®**

The power of Aramid

### Specifications

#### Solid Color Grip on Natural Technora®

(Solid Colors: Red, Navy, Blue, Green, White and Black)

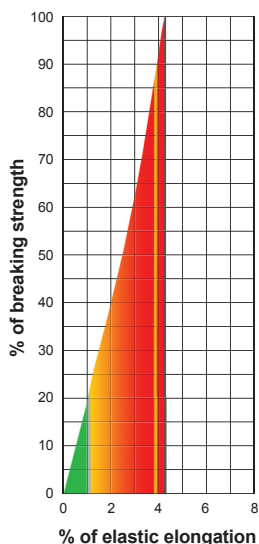
Diameter		Average Spliced Break Strength*		Minimum Spliced Break Strength*		Maximum** Working Load 5:1		Weight	
Inches	(mm)	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs/100ft	Kg/100m
3/8	(10)	6,000	2,720	5,400	2,448	1,200	544	2.5	3.7
7/16	(11)	8,000	3,630	7,200	3,267	1,600	726	3.6	5.4
1/2	(13)	9,800	4,445	8,820	4,001	1,960	889	4.5	6.7
5/8	(16)	16,000	7,260	14,400	6,534	3,200	1,452	7.5	11.2

#### Black Grip on Black Technora®

Diameter		Average Spliced Break Strength*		Minimum Spliced Break Strength*		Maximum** Working Load 5:1		Weight	
Inches	(mm)	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs/100ft	Kg/100m
3/8	(10)	6,000	2,720	5,400	2,448	1,200	544	2.5	3.7
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5/8	(16)	16,000	7,260	14,400	6,534	3,200	1,452	7.5	11.2

\* Knots and abrupt bends significantly reduce the strength of all ropes and lower maximum working load.

\*\* Working load is based on static or moderately dynamic lifting/pulling operations. Instantaneous changes in load, up or down, in excess of 10% of the rope's rated working load constitute hazardous shock load and would void the normal working-load recommendation. Consult Yale Cordage for guidelines for working loads and the safe use of rope.



#### Energy Absorption

The colored area under the curve represents the rope's ability to do "work" and is expressed in foot-pounds per pound of rope in tension.

- Green working 212 ft. lbs./lb.
- Red ultimate 4,521 ft. lbs./lb.

**Dielectric Strength:** Due to their moisture gain, high-dielectric applications are not recommended.

- Maximum Working Load
- Minimum Break Strength
- Average Break Strength

Specific Gravity: 1.40