

Cable Tension Chart

PowerLite Dia.	Loos Gauge #	Tension (lbs.)									Loos Gauge Reading	Max. Static Tension 15% Load (lbs.)	Max. Dynamic Load 25% Load (lbs.)
		500	1000	1500	2000	2500	3000	3500	4000	4500			
1/4"	PT-2	15	24	28							Loos Gauge Reading	600	1000
1/4"	PT-3		4	7								600	1000
5/16"	PT-3		9.5	14.5	18.5							1065	1775
3/8"	PT-3		17	24	27	30	35.5					1545	2575
7/16"	PT-3		20.5	29	33.5	38	41	43	46		2175	3625	
			25% of Full Load (Maximum Recommended Load)										
			Over Load Limit										
WARNING:	1) POWERLITE PBO RIGGING IS HIGHLY SENSITIVE TO PROPER TENSIONING. OVER TENSIONING CAN RESULT IN PREMATURE FAILURE AND/OR CATASTROPHIC FAILURE WHICH MAY CAUSE PHYSICAL DAMAGE AND PERSONAL INJURY. 2) SYNTHETIC FIBER CABLES WILL FEEL SLACK EVEN THOUGH THEY ARE AT FULL TENSION, AND CAN EASILY BE OVER-TENSIONED. 3) USE ONLY LOOS & CO. PROFESSIONAL TENSION GAUGE MODELS PT-2 & PT-3												

Inspection Guideline

Below are some suggestions for inspecting POWERLITE PBO cables for damage conditions. Each end user should routinely inspect cables for damage prior to each use.

1. Examine the end fittings and cable mounting points for signs of corrosion, cracking, or unscrewing.
2. As you look up into the rigging, visually inspect the cable for any signs of abrasion, localized thinning, or cuts. Also inspect for twist, which will be indicated if the ridge line along the cable is not straight.
3. Carefully inspect cable guides, or running surfaces where the rigging comes in contact with the vessel. Feel these surfaces by hand to ensure they are free from nicks, burrs, corrosion, or sharp edges.
4. Inspect chafe protection to ensure proper location. Chafe protection near the deck should always be against the end-fittings.
5. Keep a record of the abrasion areas and their approximate locations relative to a reference mark. In light to moderate abrasion areas, Teflon® tape can be used to stop further damage. Several layers of tape may be necessary. In heavy abrasion areas, additional POWERLITE chafe protection should be installed. Future inspections should be used to monitor minor damage areas for signs of growth.
6. Inspect Drag Damper positions and condition. Inspect Damping Tape for loosening.

IMPORTANT NOTE: If humming or visual strumming is noted, determine the location of strumming and inspect the drag damping system in this area immediately. Refer to the drag damping system instructions for resolution.

Rigging Disposition:

POWERLITE PBO cables that show severe damage should be replaced immediately. Examples of severe damage in POWERLITE PBO Rigging include, but are not limited to:

- a. Any cuts to the PBO core.
- b. Any visible strands of the PBO (gold in color)
- c. Any localized diameter reduction
- d. Visible strands of the PBO at the terminations

For answers to additional questions, please contact Applied Fiber.

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