

TAERON

XLINE

SYNTHETIC LONGLINES

Available Working Load Limits

- 3,500 lbs (1,585 kg)
- 6,250 lbs (2,585 kg)
- 11,000 lbs (5,000 kg)



- 10 Year Max Service Life
- Removable & Reusable HEET Termination
- UHMWPE rope with urethane jacket & splices

- 8:1 Design Factor
- Superior flight characteristics & durability
- Flexible electrical, fly disc, D-Boot, hardware options

Meet HEET

Our industry leading HEET™ termination provides a rugged urethane rubber guard over the line ends, and allows end hardware (lifting rings, hooks, electric swivels, etc.) to be changed out in minutes. We also offer an integrated “Fly Disc” for improved empty flight characteristics.

And the best part? The HEET™ termination is reusable over multiple life cycles of the textile components of the line, and interchangeable between different rope sizes.

Complete Protection

A significant portion of fibre strength loss on traditional UHMWPE longlines is due to the ingress of particulate and exposure to UV. With XLine, we’ve drastically reduced the ability for particulate to penetrate to the rope fibre by applying an extruded urethane jacket to the rope and injection casting the splices. This prevents UV or particulate from reaching the rope and provides durable protection against mechanical damage.



INNOVATION IN VERTICAL LIFT

TAERON

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Rope Design

Taeron XLine Generation II rope is the newest technology in synthetic ropes for helicopter lifting applications. Manufactured in the United States, XLine Generation II rope is the first synthetic rope designed from the ground up with helicopter lifting applications in mind.

XLine Generation II Rope combines the rugged construction of XLine Generation I with a clear polyurethane extrusion, allowing for inspection of the load-bearing double braid rope underneath.

Using proven UHMWPE 12-strand rope as a load bearing core, a high visibility PET overbraid is added, and a clear polyurethane extrusion is applied. This combination provides inspectability, high visibility, and protection from particulate and UV.

- UHMWPE 12-strand Load Bearing Core Rope
- High Visibility PET Overbraid
- Clear Polyurethane Extruded Jacket

XLINE ROPE DATA	
Size	Weight (lb/100ft)[kg/30m]
1/2"	13.0 [5.9]
5/8"	19.8 [9.0]
7/8"	35.0 [15.9]
Thermal Properties	
Low Temperature Limit	No limit
Critical Temperature Range	65°C - 125°C
Melting Point	140°C
Electrical Properties	
Dielectric Constant (Rope Component)	
Plasma* Core	2.3*
PET Overbraid	3.0*
Polyurethane Jacket	5.5-6.5*†
Mechanical Properties	
Elongation at break	4% - 5%
Fiber water absorption	0%
*Values are approximate and reflect dry, new material. Sourced from Honeywell and Covestro data †Dielectric constant values are approximate. Overall assembly dielectric constant may differ from component values due to moisture, contamination, etc. Taeron Systems does not certify XLine assemblies as dielectric.	