



Our Towline is Your Lifeline

A towline is your lifeline when your business is tug and salvage boat operations and we understand your entire operation relies on its strength and dependability. No matter if you specialize in offshore, harbor or river operations, we can engineer a rope solution to match the specific needs of each of your vessels.

Cortland offers a full range of high performance synthetic rope and pendant combinations which are stronger, safer, lighter and easier to handle than wire rope. These features translate into quicker make-up times, and higher productivity for your tug operation.

Popular in the tug industry, Cortland's Plasma® 12x12 rope has no equal. Manufactured from high performance Honeywell Spectra 900® fiber, this unique product has been enhanced by Cortland's patented recrystallization process. Plasma® 12 Strand braided into Cortland's patented 12x12 construction, creates a torque-free rope at unparalleled strength for its weight.

Years of global tug, berthing, lifting and mooring experience means you can trust Cortland for complete engineering package, analysis and design. From sales to design to installation, our success is based on close interaction with our tug and salvage customers; including on-site splicing, inspection, maintenance and training services.

Trust Cortland for proven tug rope performance.

Features

- Equal or greater strength for wire size-for-size
- Significantly lighter than wire, reducing handling weight
- High flex fatigue and abrasion resistance
- Easy to splice, inspect, and repair
- Neutrally buoyant in water
- Easier on the hands, increasing deckhand safety and comfort
- Long lengths available

PUGET SOUND ROPE

A Trusted Cortland Brand



CORTLAND

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Tug and Salvage Lines

Plasma® 12x12

Nominal Diameter		Size (circ in.)	Approximate Weight		Minimum Tensile Strength Spliced Rope		Minimum Tensile Strength ISO Un-Spliced Rope	
Inch	MM		Lbs/100'	Kg/100m	Lbs	MT (tonnes)	Lbs	MT (tonnes)
ABS and DNV type approved sizes - up to 4" diameter (96mm)								
1 5/8	40	5	66	98	291,000	132	323,300	147
1 3/4	44	5 1/2	78	117	314,000	142	348,900	158
2	48	6	91	136	355,000	161	392,450	178
2 1/8	52	6 1/2	109	162	428,000	194	475,600	216
2 1/4	56	7	122	182	481,000	218	534,400	242
2 1/2	60	7 1/2	148	220	530,000	240	588,900	267
2 5/8	64	8	167	249	596,000	270	662,200	300
2 3/4	68	8 1/2	187	278	660,000	299	733,300	333
3	72	9	214	319	780,000	354	866,700	393
3 1/8	76	9 1/2	235	350	850,000	386	944,400	428
3 1/4	80	10	261	388	940,000	426	1,045,400	474

Size: Diameter and circumference are nominal. A new unused rope in relaxed state will measure larger; loading and use compacts ropes, sets splices and lessens rope size. This is especially prevalent in sizes above 4" diameter.

Weights: Published weights of sizes 1 5/8" – 4" diameter are calculated at linear density under stated preload (200d²) plus 4%.

Tensile Strengths: Tensile Strength determined in accordance with Cordage Institute 1500 Test Methods for Fiber Ropes and ISO 2307.

Maximizing Performance, Safety and Efficiency

Cortland offers a complete line of top quality, high-performance synthetic rope options and has supplied products to tugs all over the world for ship assist, towing, and escort jobs for many years. Our lightweight, technologically advanced products are all extremely flexible making them much easier and safer for the crew to lift and secure.

Durability is also an important factor of overall rope cost. With the addition of anti-chafe gear such as pendant and anti-chafe covers, you can significantly increase the life of your tow rope and create maximum cost efficiency with minimal maintenance. Cortland offers a full range of rope and pendant combinations that can be customized to your needs with the help of our onboard technical service support experts.

Cortland is a global designer and manufacturer of engineered synthetic ropes. We have the broadest range of rope and cable processing capabilities available anywhere in the world and specialize in custom-built applications to maximize performance, safety, and efficiency for our clients.