



## Light. Strong. Safe. Fast. Plasma® Vehicle Recovery Tow Strops

**When heavy equipment becomes stuck, mine productivity goes down.** Recovering the vehicle can be a difficult and hazardous process. Traditional tow lines made from steel wire rope are heavy, inflexible, difficult to rig and recoil in dangerous patterns when they break. Plasma® Vehicle Recovery Tow Strops from Cortland replace wire rope. The strops are designed using high modulus synthetic fibers in a torque-free braided rope construction offering the same strength and elongation characteristics as wire with only 1/7th the weight. Quickly attached to both towing equipment and mired vehicles, Plasma® Tow Slings can easily meet the toughest tests.

Cortland's patented Plasma® HMPE (High Modulus PolyEythelene) synthetic fiber has been successfully out-performing and replacing steel wire rope in lifting and towing applications for over twenty years. Unlike wire, Plasma® will not rust or corrode and has much better bend and tension-tension fatigue resistance.

**Successfully used in mining projects around the globe, Plasma® Vehicle Recovery Tow Strops are rapidly growing in popularity due to ease of use, performance, safety and service life.**

### Features

- The towing strength of steel wire rope without the weight
- Lightweight flexibility
- Durable for multiple uses
- High visibility orange color (other options available)
- Manufactured to global standards



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# Plasma® Vehicle Recovery Tow Strops

Plasma® Vehicle Recovery Tow Strops have been designed to provide the maximum combination of strength, flexibility, low elongation and durability. To protect the Plasma® we encase the entire strop body in heavy duty high visibility protective jacketing. This extra-durable jacket provides protection during use from external abrasion, cutting and ingress of dirt into the Plasma® core. Each end termination is protected with our most durable lightweight chafe sleeve; SX (HMPE fiber) braid and every Strop delivered comes with a tag providing the Minimum Break Load (MBL) and a unique serial number for traceability.



**Cortland Plasma® Vehicle Tow Strops can significantly add to the safety and speed of recovery in your daily mining operations.**

Common sizes of Cortland Plasma® Vehicle Tow Strops are shown in the following chart. However, Cortland can offer a variety of sizes and lengths of Plasma® Vehicle Recovery Tow Strops required.

Part No.	New Cable MBL		Approximate Eye Size O.D.	Standard Length		Approximate Total Weight per Standard Length		Approximate add-on weight for non-standard lengths	
	Tonnes	Lbs		Meters	Feet	Kgs	Lbs	Kgs/meter	Lbs/foot
BSTROP28T	28	62,535	2	6	20	3	7	0.2	0.2
BSTROP69T	69	152,790	3 1/4	6	20	6	14	0.5	0.3
BSTROP110T	110	181,500	3 1/2	6	20	7	15	0.7	0.5
BSTROP147T	147	323,400	4	6	20	12	27	1.6	1.1
BSTROP235T	235	518,100	6 1/2	6	20	22	49	2.5	1.7
BSTROP320T	320	706,200	7 1/2	6	20	30	67	3.3	2.3
BSTROP360T	360	793,650	8	6	20	35	78	4.0	2.8
BSTROP494T	494	1,089,000	9	6	20	56	123	5.0	3.4

Cortland recommend attachment points should have a minimum D:d (diameter of "curvature" of the load bearing tow point to the diameter of the rope) of 2:1. The working load limit (WLL) is determined by dividing the rope Minimum Break Load (MBL) by the safety factor (SF). The SF is a function of the physical properties of the Products including the age and history of the Products, the type of service the Products will be subjected to, and the risks involved if failure of the Products occurs and should be determined by competent personnel; however a minimum a Safety Factor (SF) of 2:1 should be maintained at all times.

