



Selantic Slings and Tow Cables

For precision lifting and towing in mining applications

Selantic Slings from Cortland provide a safe, reliable and lightweight alternative to heavy chains and wire rope in the Mining industry. Major mining companies, including BHP, Peabody, Freeport McMoran, Arch Coal, Shell, IOL, Suncor and others have been using Cortland slings and tow cables successfully for more than 25 years.

Cortland slings and tow cables provide lightweight and flexible solutions, enhancing the safety level in mining applications; all properties which are appreciated by mine operators. Track records proving consistent performance and worker safety improvements have made Cortland slings and tow cables preferred solutions in many leading mines around the world.

Cortland Selantic HMPE round slings:

- Endless loop design
- Eye-eye or grommet configuration

Material Selection

We carefully select material based on experience and your application requirements. These core materials include HMPE and Aramid fibers (e.g., Kevlar®, Technora®, and Dyneema®). Cortland has also developed its own fiber technology: patented Plasma® fiber, creating one of the strongest and lightest synthetic fiber ropes constructions available in the world.

Selantic Slings, made from synthetic fiber, are only 1/7th of the weight compared to equal strength wire ropes, yet provides similar elastic elongation properties; i.e., low elongation under load. Fabricated Cortland Selantic round slings and tow cables are available in a variety of diameter or strength sizes:

- Strengths up to 3000Te
- Available in standard or custom lengths
- Typically these fabricated products are covered with cut and abrasion resistant protective layers and additional specialized wear protection for eye sections or other interfacing areas

Features

- Designed to replace steel wire rope
- Lightweight and flexible
- Safe and easy to handle
- Durable protection and covering
- Torque-free

Specifications

Materials	HMPE, Aramid or HMPE/ Aramid blends
Construction	Parallel laid filaments in and endless loop configuration
Jacket	HMPE/Cordura® cut resistant cover and special design wear protection in critical areas
Capacity	1 to >3000 Te MBL
Length	0.8 to 100m
Length tolerance	+/- 0.25% of nominal length
Certification	ISO, ASME B30.9, DNV MO, CEN and ILO



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All Cortland mining slings and tow cables are produced under ISO-9001 certification standards. They are clearly tagged with rated capacities:

- MBS (Minimum Break Strength) for tow cables
- MBS and WLL (Work Load Limits) for lifting slings – complying with all ASME B30.9 lifting sling standards

The below slings are available as standard but each sling is custom-designed and manufactured according to customer's requirements. They are available in lengths varying from short (0.8m) up to 100m, with different characteristics according to the intended application.



Unique chafe gear sets Cortland Selantic® Slings apart from others

Sling Part Number	MBS		Vertical (WLL 5:1)		Choker (WLL 5:1)		Basket 90° (WLL 5:1)		Minimum Required Pin Diameter (mm)	Approximate weight per 12M sling (kgs)
			tonnes		lbs.		tonnes			
	tonnes	lbs.	tonnes	lbs.	tonnes	lbs.	tonnes	lbs.		
SD35	35	77,140	7	15,428	5.6	12,342	14	30,856	35	13
SD70	70	154,280	14	30,856	11.2	24,684	28	61,712	45	18
SD105	105	231,420	21	46,284	16.8	37,027	42	92,568	55	23
SD140	140	308,560	28	61,712	22.4	49,369	56	123,424	65	28
SD175	175	385,700	35	77,140	28	61,712	70	154,280	70	34
SD210	210	462,840	42	92,568	33.6	74,054	84	185,136	75	39
SD280	280	617,120	56	123,424	44.8	98,739	112	246,848	90	51
SD350	350	771,400	70	154,280	56	123,424	140	308,560	100	62
SD420	420	925,680	84	185,136	67.2	148,088	168	370,272	113	68
SD560	560	1,234,240	112	248,848	89.6	197,478	224	493,696	140	87

MBS (Minimum Break Strength) is the ultimate new sling strength capacity of a Selantic Round Sling used with correct pin diameters in eyes, in a straight vertical or horizontal pull.

For safety reasons, Cortland always recommends the use of a WLL (Work Load Limit) on all slings. WLL is a percentage reduction in MBS. For lifting, Cortland recommends a WLL of 5:1.

Larger strength specifications sizes available on request

Your specifications

When ordering, please provide us with as much information as possible to ensure that we provide you with the most cost-effective solution. For example: how will the sling interact with other lifting components? Given this information, Cortland will design, manufacture and deliver exactly the right solution for your needs. Email us today at cortland@cortlandcompany.com, or find out more at cortlandcompany.com.