



Extender™ Slings

adjustable length high performance lifting slings

When load handling heavy equipment becomes a challenge—especially when lifting loads with differential sling lengths—adjustable high performance synthetic rope slings are ideal tools. Cortland offers Plasma® rope slings in an adjustable form: introducing Extender™ slings.

Extender slings have one permanent eye, and one eye that is adjustable, which means it can be tightly sized to fit an application, then lengthened or shortened to fit a different application. A single Extender sling can solve lifting requirements in a wide variety of situations. This changes a high performance rope sling from a specific-use tool, to one that is adaptable for multiple uses; minimizing the number of lifting slings needed in-stock.

The benefits of using high performance synthetic rope slings, instead of traditional wire rope, have not only been well-documented but are also put into practice every day by lifting companies worldwide. Cortland's patented Plasma HMPE (Ultra High Modulus Polyethylene) synthetic fiber rope slings are lighter than wire rope, offer greater flexibility both in design and use, and are less labor-intensive to move. Plasma rope slings have been successfully replacing steel wire rope in lifting applications for more than 25 years.

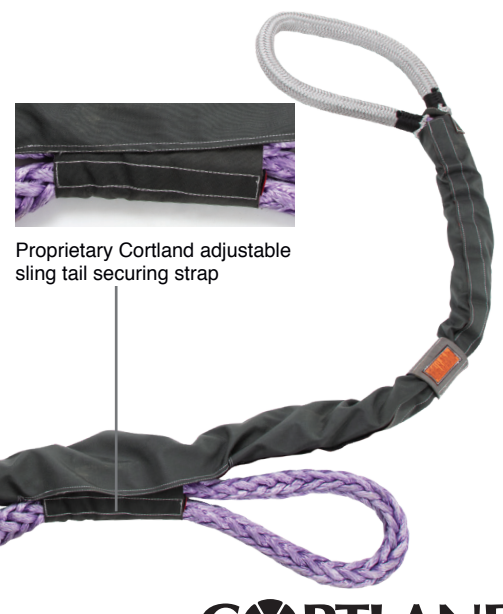
Traditional lifting slings made from steel wire rope are heavy, inflexible, and difficult to rig. Unlike wire, Plasma rope slings will not rust or corrode and have much better bend and tension-tension fatigue resistance. Single leg or multi-leg bridles using Extender slings are designed using high modulus synthetic fibers in a torque-free braided construction and offer the same strength and elongation characteristics as wire with only 1/7th the weight.

Extender slings are currently available with standard vertical lifting capacities from 10 to 250 tons. All single leg or multi-leg Extender slings are proof-loaded to 2x WLL (5:1), have less than 1% elongation under WLL, and are properly tagged.

Features and Benefits

- HMPE high performance lifting sling
- One permanent eye, one adjustable eye
- Length adjustable, to use in a variety of applications
- Opposing force tightens the adjustable splice, preventing any lengthening of the sling
- Lightweight flexibility for safe and fast rigging
- Minimum length dependent on rope diameter size; no max length limitations
- Easy to inspect
- Durable cut-resistant eye terminations
- Many chafe guard options, offering increased protection yet allowing for inspection

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Proprietary Cortland adjustable sling tail securing strap

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Extender™ Adjustable Sling Chart

Nominal diameter		Size (circ. in.)	Sling Rated Capacities @ 5:1 WLL (lbs)				Minimum eye size		Minimum OAL	
inches	mm		Vertical		Basket		inches	mm	feet	m
			lbs	tonnes	lbs	tonnes				
Plasma 12 Strand										
1/4	6	3/4	1,280	0.6	2,560	1.2	6	152.4	4	1.2
5/16	8	15/16	1,872	0.8	3,744	1.7	6	152.4	4	1.2
3/8	9	1-1/8	2,800	1.3	5,600	2.5	6	152.4	5	1.5
7/16	11	1-1/4	3,360	1.5	6,720	3.0	6	152.4	6	1.8
1/2	12	1-1/2	5,008	2.3	10,016	4.5	6	152.4	6	1.8
9/16	14	1-3/4	6,064	2.8	12,128	5.5	6	152.4	7	2.1
5/8	16	2	8,224	3.7	16,448	7.5	6	152.4	7	2.1
3/4	18	2-1/4	10,960	5.0	21,920	9.9	6	152.4	8	2.4
13/16	20	2-1/2	11,840	5.4	23,680	10.7	6	152.4	9	2.7
7/8	22	2-3/4	14,816	6.7	29,632	13.4	6	152.4	10	3.0
1	24	3	17,600	8.0	35,200	16.0	8	203.2	11	3.4
1-1/16	26	3-1/4	20,672	9.4	41,334	18.7	8	203.2	12	3.7
1-1/8	28	3-1/2	23,520	10.7	47,040	21.3	8	203.2	12	3.7
1-1/4	30	3-3/4	26,400	12.0	52,800	23.9	8	203.2	13	4.0
1-5/16	32	4	31,360	14.2	62,720	28.4	8	203.2	14	4.3
1-1/2	36	4-1/2	35,360	16.0	70,720	32.1	8	203.2	16	4.9
Plasma 12x12										
1-5/8	40	5	46,560	21.1	93,120	42.2	12	304.8	18	5.5
1-3/4	44	5-1/2	50,240	22.8	100,480	45.6	12	304.8	20	6.1
2	48	6	56,800	25.8	113,600	51.5	12	304.8	21	6.4
2-1/8	52	6-1/2	68,480	31.1	136,960	62.1	12	304.8	23	7.0
2-1/4	56	7	76,960	34.9	153,920	69.8	12	304.8	26	7.9
2-1/2	60	7-1/2	84,800	38.5	169,600	76.9	12	304.8	27	8.2
2-5/8	64	8	95,360	43.3	190,720	86.5	12	304.8	27	8.2
2-3/4	68	8-1/2	105,600	47.9	211,200	95.8	12	304.8	28	8.5
3	72	9	124,800	56.6	249,600	113.2	12	304.8	30	9.1
3-1/8	76	9-1/2	136,000	61.7	272,000	123.4	18	457.2	32	9.8
3-1/4	80	10	150,400	68.2	300,800	136.4	18	457.2	34	10.4
3-1/2	84	10-1/2	177,280	80.4	354,560	160.8	18	457.2	36	11.0
3-5/8	88	11	200,000	90.7	400,000	181.4	18	457.2	37	11.3
3-3/4	92	11-1/2	210,720	95.6	421,440	191.2	18	457.2	38	11.6
4	96	12	243,200	110.3	486,400	220.6	18	457.2	40	12.2

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Extender™ slings are adjustable to allow use in a variety of applications; they feature one permanent eye and one adjustable eye