

EXTENDER™ SLING

ADJUSTABLE LENGTH
HIGH PERFORMANCE
LIFTING SLING



When handling heavy loads, especially lifts requiring differential sling lengths, adjustable, high-performance synthetic rope slings provide a clear advantage. Cortland's Plasma® Extender™ slings are designed to meet these challenges with flexibility and efficiency.

Each Extender sling features one permanent eye and one adjustable eye, allowing the sling to be precisely sized for a specific lift, then easily lengthened or shortened for another application. This adaptability enables a single Extender sling to replace multiple fixed-length slings, reducing inventory requirements and increasing operational efficiency.

The benefits of high-performance synthetic rope slings over traditional steel wire rope are well documented and proven daily in lifting operations worldwide. Plasma® UHMWPE (Ultra-High Molecular Weight Polyethylene) rope slings are significantly lighter than wire rope, easier to handle, and offer greater flexibility in both design and use. Plasma slings have successfully replaced steel wire rope in lifting applications for more than 25 years.

Unlike steel wire rope, which is heavy, rigid, and prone to corrosion, Plasma rope slings do not rust, offer superior bend and tension-tension fatigue resistance, and are far easier to rig. Single-leg and multi-leg Extender sling bridles are constructed using torque-free braided, high-modulus synthetic fibers, delivering wire-rope-like strength and elongation characteristics at approximately one-seventh the weight.

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

Features and Benefits

- UHMWPE 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



Proprietary adjustable sling tail securing strap

Email contact@cortlandinternational.com for an initial discussion, or visit us online at cortlandinternational.com.



EXTENDER™ SLINGS

Extender™ Adjustable Slings

Nominal diameter		Size (circ. in.)	Sling Rated Capacities @ 5:1 WLL (lbs)				Minimum eye size		Minimum OAL	
			Vertical		Basket					
inches	mm		lbs	tonnes	lbs	tonnes	inches	mm	feet	m
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

Extender™ slings must only be basketed in the slings' clear spans and never loaded on a spliced area. Extender slings must never be used in a choker configuration.

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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

