

MASTRANT

ANTENNA GUYING

WHY GUY WITH SYNTHETIC ROPES?

- NO RF INTERACTION • LIGHT WEIGHT • EASY HANDLING
- COST EFFECTIVE

WHY MASTRANT?

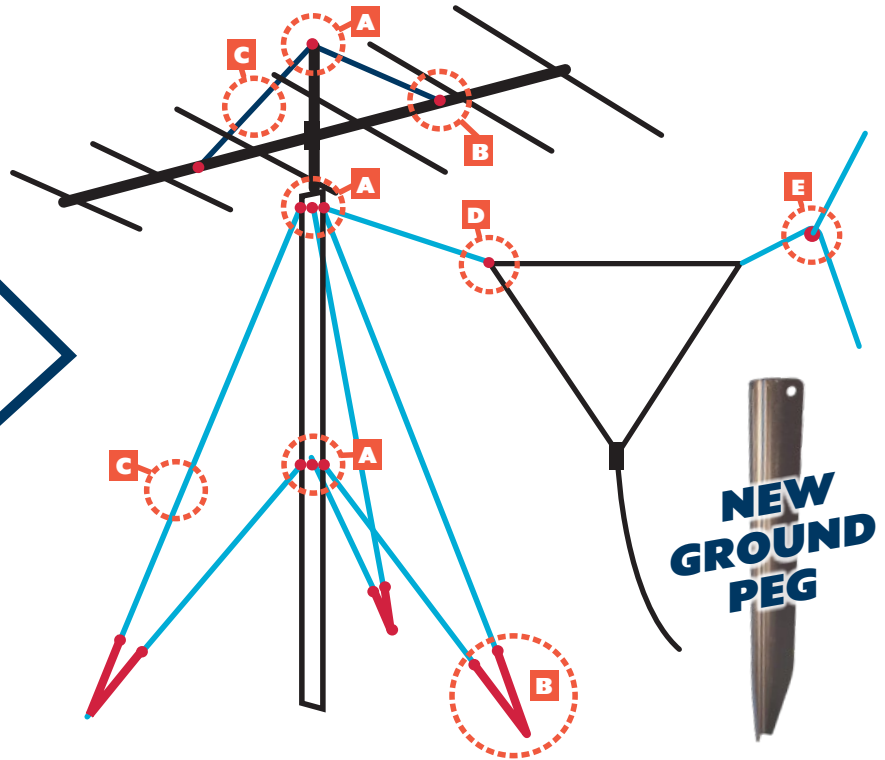
- DESIGNED FOR GUYING • UV RESISTANCE • HIGH STRENGTH
- LOW ELONGATION – NO STRETCH • WEATHER DURABILITY • WIDE RANGE OF ACCESSORIES AND "MUST HAVES" FOR ANTENNA WORK

HOW?

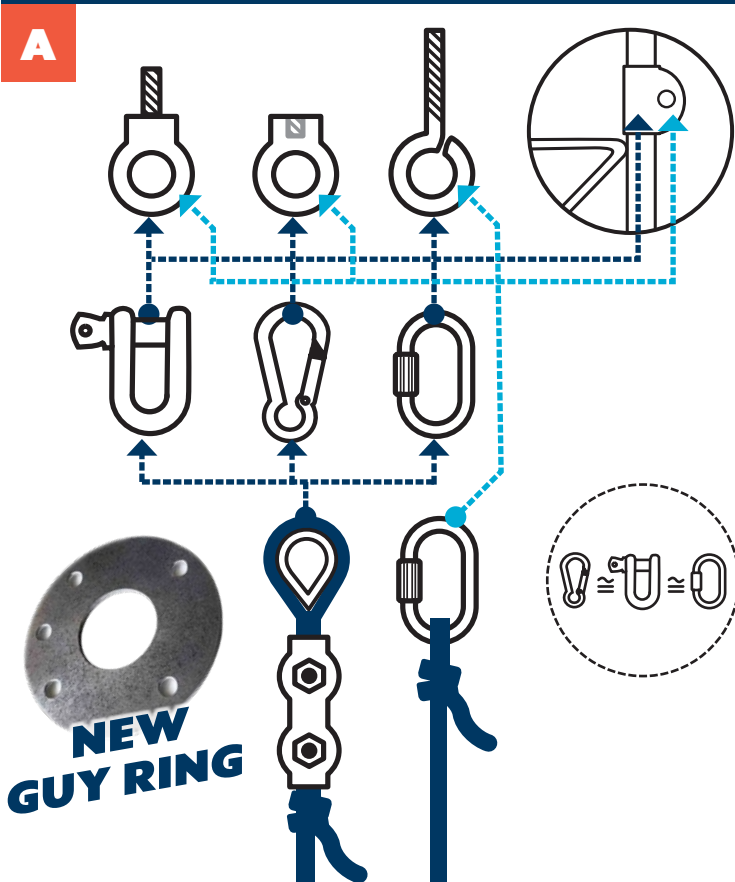
- CHOOSE APPROPRIATE GUYROPE • CALCULATE LENGTHS • THINK ABOUT IT
- DO IT • REGULARLY CHECK IT



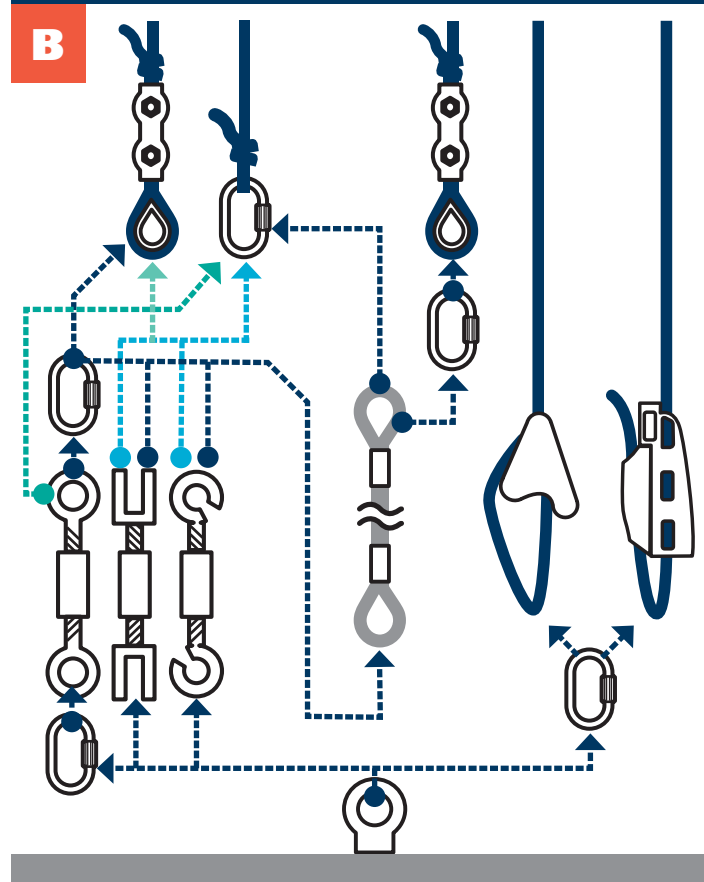
WHERE WE CAN SUPPORT YOU



MAST / TOWER GUY POINT

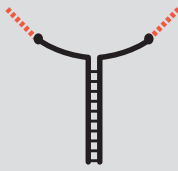
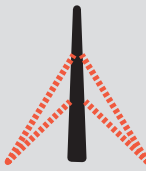




TENSIONING & CONNECTING



TYPICAL INSTALLATIONS + RECOMMENDED GUY ROPES

TYPE OF USE

Wire antenna suspension	Vertical antenna	Mast Ø 1 to 4"	Lattice tower
 <p>conventional wire antennas</p> <p>high tension - heavy wire, 160m</p>	 <p>Up to 70 ft, Ø 1 to 2"</p> <p>Up to 130 ft, Ø 2 to 4"</p>	 <p>Up to 25 ft with 3 el. 3-8 or long VHF Yagi</p> <p>Up to 70 ft, 5 el. Yagi for 20m</p>	 <p>Up to 70 ft 7 el. tribander</p> <p>Up to 200 ft 3 stack of 5 el. Yagi 20m</p>
LEVELS*	2-3	3-5	2-3



breaking strength [BS] safe working load [SWL] ROPE TYPE

PRICE \$ Longer spools available

Size of couplers: Carabiner, Shackle, Chain, Turnbuckle

Feet	330	100	1
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Ø SIZE	MASTRANT CLASSIC	STRETCH = ELONGATION: 2.4%, CORE = POLYESTER & POLYPROPYLENE, COVER = POLYESTER										Size of couplers							
2 1/16"												220	70	P 23	n/a	0.10	5	5	6
3 1/8"												440	130	P 32	13	0.14	5	5	6
3+ 9/64"												660	200	P 44	17	0.19	6	5	6
4 5/32"												970	290	P 51	20	0.20	6	5	6
5 3/16"												1190	360	P 73	n/a	0.29	6	5	6
6 1/4"												1610	490	R 89	n/a	0.35	8	6	8
8 5/16"												3750	1120	O n/a	35	0.44	10	6	8
11 7/16"												6130	1830	Q 107	n/a	0.39	HD	7	10
14 9/16"												7120	2140	C 129	n/a	0.47	-	10	14

Ø SIZE	MASTRANT PREMIUM	EXTRA STRONG	STRETCH = ELONGATION: <1.2%, CORE = DYNEEMA® DM 20, COVER = POLYESTER										Size of couplers						
1 3/64"												220	70	M 45	n/a	0.16	5	5	6
2 3/32"												490	150	M 51	19	0.18	5	5	6
3 1/8"												860	260	M 83	31	0.30	6	5	6
4 5/32"												1980	600	M 167	n/a	0.61	7	5	6
5 3/16"												2650	790	M 264	n/a	0.96	8	6	8
6 1/4"												4080	1220	M 328	n/a	1.19	10	7	10
8 5/16"												5730	1720	M 465	n/a	1.69	HD	8	12
10 3/8"												8490	2550	M 796	n/a	2.89	-	10	16
12 1/2"												12130	3640	M 1110	n/a	4.04	-	12	20



* LEVELS = NUMBER OF GUY ATTACHMENT POINTS. OTHER ASSUMPTIONS: WIND SPEED UP TO 100mph, DISTANCE BETWEEN ANCHOR POINT AND BASE OF MAST > 70% OF THE HEIGHT

DETAILED INSTRUCTIONS, USEFUL TIPS, TRICKS AND ADVICE ON WEBSITE WWW.MASTRANT.COM



A: Terminating

Thimbles (stainless AISI 316)

ATH02	2 mm (3/32", min.int.diam. 8 mm)	0.29
ATH03	3 mm (1/8", min.int.diam. 10 mm)	0.33
ATH04	4 mm (5/32", min.int.diam. 11 mm)	0.45
ATH05	5 mm (3/16", min.int.diam. 13 mm)	0.58
ATH06	6 mm (1/4", min.int.diam. 14 mm)	0.70
ATH08	8 mm (5/16", min.int.diam. 18 mm)	1.20
ATH10	10 mm (3/8", min.int.diam. 24 mm)	1.80
ATH12	12 mm (1/2", min.int.diam. 30 mm)	2.-
ATH14	14 mm (9/16", min.int.diam. 32 mm)	2.90



Duplex wire rope clips (stainless AISI 316)

ADC02	2 mm (3/32", M4, wrench 7)	1.30
ADC03	3 mm (1/8", M4, wrench 7)	1.60
ADC04	4 mm (5/32", M5, wrench 8)	2.30
ADC05	5 mm (3/16", M5, wrench 8)	2.90
ADC06	6 mm (1/4", M6, wrench 10)	4.-
ADC08	8 mm (5/16", M8, wrench 13)	5.90
ADC10	10 mm (3/8", M10, wrench 17)	11.20



Fist-grips (galvanised)

APC06	6 mm (1/4", 5-8 mm, M6)	2.90
APC08	8 mm (5/16", 8-10 mm, M6)	4.10
APC10	10 mm (3/8", 10-12, M8)	5.80
APC12	12 mm (1/2", 12-14, M10)	7.40
APC16	16 mm (5/8", 14-18, M12)	9.90



Bull-dog grips (stainless steel AISI 316)

ASC02	2 mm (3/32", M3)	1.50
ASC03	3 mm (1/8", M3)	1.70
ASC04	4 mm (5/32", M4)	1.80
ASC05	5 mm (3/16", M5)	2.-
ASC06	6 mm (1/4", M6)	2.40
ASC08	8 mm (5/16", M6)	2.80
ASC10	10 mm (3/8", M8)	4.10
ASC12	12 mm (1/2", M10)	7.60
ASC13	13 mm (9/16", M10)	9.10



A, B: Coupling

Spring hooks - Carabiners (stainless AISI 316)

AHO04	4 mm (5/32", BS: 500 lb.)	1.50
AHO05	5 mm (3/16", BS: 880 lb.)	1.60
AHO06	6 mm (1/4", BS: 1050 lb.)	1.90
AHO07	7 mm (9/32", BS: 1320 lb.)	2.80
AHO08	8 mm (5/16", BS: 1870 lb.)	3.50
AHO10	10 mm (3/8", BS: 2500 lb.)	6.40
AHOS05	smooth 5 mm (3/16", BS: 370 lb.)	2.-
AHOS07	smooth 7 mm (9/32", BS: 990 lb.)	2.90
AHOS10	smooth 10 mm (3/8", BS: 2000 lb.)	6.80



Chain quick-acting couplers (stainless AISI 316)

ACC04	4 mm (5/32", max.opn.5.5 mm (1100 lb.)	1.80
ACC05	5 mm (3/16", max.opn.6.5 mm (3000 lb.)	2.10
ACC06	6 mm (1/4", max.opn.7.5 mm (4400 lb.)	3.20
ACC07	7 mm (9/32", max.opn.8.5 mm (5500 lb.)	4.50
ACC08	8 mm (5/16", max.opn.9.5 mm (7300 lb.)	4.90
ACC10	10 mm (3/8", max.opn.12 mm (12100 lb.)	8.70
ACC12	12 mm (1/2", max.opn.14.5 mm (15400 lb.)	13.-



Shackles (stainless AISI 316)

ASE04	4 mm (5/32", 8x14 mm hole (1200 lb.)	2.-
ASE05	5 mm (3/16", 10x17 mm hole (2000 lb.)	2.30
ASE06	6 mm (1/4", 12x21 mm hole (2900 lb.)	2.70
ASE07	7 mm (9/32", 14x24 mm hole (3900 lb.)	3.-
ASE08	8 mm (5/16", 16x28 mm hole (5300 lb.)	3.30
ASE10	10 mm (3/8", 19x35 mm hole (8400 lb.)	6.20
ASE12	12 mm (1/2", 23x41 mm hole (12200 lb.)	8.90



Swivels (stainless AISI 316)

ASW01	6 mm (1/4", 12x11 mm hole (2900 lb.)	6.20
ASW02	8 mm (5/16", 16x16 mm hole (5500 lb.)	10.70



B: Attaching

Fixing eyes (stainless steel AISI 316)

AES061	eye - bolt M6 (hole 16, length 11, 1700 lb.)	2.40
AES081	eye - bolt M8 (hole 20, length 13, 3100 lb.)	3.20
AES101	eye - bolt M10 (hole 25, leng. 17, 5000 lb.)	6.10
AES121	eye - bolt M12 (hole 30, leng. 20, 7100 lb.)	7.20
AEN06	eye - nut M6 (hole 16, 1700 lb.)	1.90
AEN08	eye - nut M8 (hole 20, 3100 lb.)	2.80
AEN10	eye - nut M10 (hole 25, 5000 lb.)	4.70
AEN12	eye - nut M12 (hole 30, 7100 lb.)	6.70
AEN16	eye - nut M16 (hole 35, 12700 lb.)	8.60
AE0540	bolt with eye M5 (5x40)	1.10
AE0640	bolt with eye M6 (6x40)	1.40
AE0860	bolt with eye M8 (8x60)	2.40
AE1070	bolt with eye M10 (10x70)	3.80
A7A836	anchoring set 10x100 mm (6600 lb.)	18.-

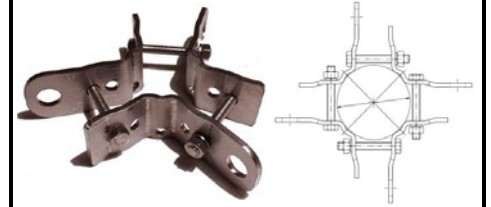


B: Attaching

Mast clamps Mastrant (stainless steel)

Parts can be used for both 3 or 4 directional setups.

Heavy duty (thickness 5/32", height 1-1/2", screws 5/16")		
ACM1306	3 directions, masts 5/8" to 2"	22.-
ACM1310	3 directions, masts 5/8" to 4"	23.-
ACM1406	4 or 3 dir. (universal), masts 1-1/4" to 3-1/4"	29.-
ACM1410	4 or 3 dir., masts 1-1/4" to 5"	31.-



Light (thickness 3/32", height 1", screws 1/4")

ACM230x	light 3 directions, masts 3/8" to 2-3/8"	17.-
ACM240x	light 3-4 directions, masts 1" to 2-3/8"	23.-



Galvanised mast clamps

ACL330	3 directional, masts 1-3/16" to 2"	10.70
ACL445	4 directional, masts 3/4" to 3"	12.-



Guy rings

AGR1*	Guying ring for tubular mast	7.40
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Diameters 22, 28, 31, 34, 37, 40, 43 mm (7/8" to 1-11/16")



Ground peg

ASGP3A	Ground peg 300 mm aluminium	6.80
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C: Terminated guy ropes Mastrant-P & Q

Ready-made guy ropes with a thimble fitted on one end. Length: 66 ft. 99 ft.

NP040x0	4 mm (5/32", BS: 220 kg (480 lb)	18.-	23.-
NP050x0	5 mm (3/16", BS: 270 kg (590 lb)	22.-	30.-
NQ060x0	6 mm (1/4", BS: 365 kg (800 lb)	29.-	40.-
NQ080x0	8 mm (5/16", BS: 850 kg (1870 lb)	37.-	52.-
NQ110x0	11 mm (7/16", BS: 1400 kg (3060 lb)	49.-	68.-

Length: 109 ft. 132 ft.

NQ140x0	14 mm (9/16", BS: 1800 kg (4000 lb)	103.-	123.-
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