

**B: Tensioning**

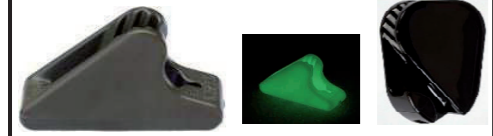
Turnbuckles	S.s.	Galv.
ASH*06*	eye-eye (hook) M6	
ASH*08*	eye-eye (hook) M8	
ASH*10*	eye-eye (hook) M10	
ASH*12*	eye-eye (hook) M12	
ASH*16*	eye-eye (hook) M16	
ASH*20*	eye-eye (hook) M20	



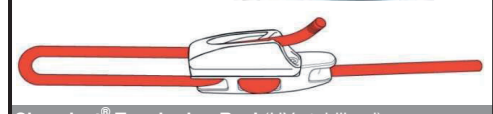
ASHF05*	jaw-jaw M5 (560 kg)	
ASHF06*	jaw-jaw M6 (1400 kg)	
ASHF08*	jaw-jaw M8 (2200 kg)	
ASHF10*	jaw-jaw M10 (3450 kg)	
ASHF12*	jaw-jaw M12 (5000 kg)	
ASHF14*	jaw-jaw M14 (6400 kg)	
ASHF16*	jaw-jaw M16 (8000 kg)	



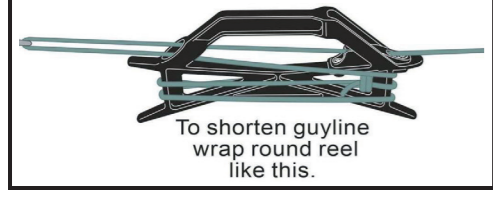
Clamcleat® tensioners (UV stabilised)	black	glow
CL266	Line-Lok tensioner 1-3 mm	
CL260	Line-Lok tensioner 2-4 mm	
CL276	Line-Lok tensioner 3-5 mm	
CL271	Line-Lok tensioner 4-8 mm	
CL223	Loop Cleat tens. 3-6 mm	
CL234	Loop Cleat tens. 6-11 mm	



Clamcleat® tensioners - adjustable (UV stabilised)	
CL828-63	Aero 3-4 mm
CL828-70AN	Aero 3-4 mm (can rig 4:1)
CL826-72	Aero 4-6 mm
CL829-11AN	Aero 4-6 mm (hard anodised)
CL827-03	Aero 4-6 mm long
CL827-11AN	Aero 4-6 mm long (hard anodised)



Clamcleat® Tensioning Reel (UV stabilised)	
CLPT771	For ropes 5-6 mm (3/16" to 1/4")



**D: Elastic ropes for tensioning**

stretch 100%, e.g. for tightening of wire antennas to trees	
ER06	Elastic rope 6 mm (10 kg / 22 lb), 1m
ER08	Elastic rope 8 mm (25 kg / 55 lb), 1m

**E: Pulleys**

Pulleys galvanised		sing.	doub.
APUN05	nylon, 5 mm		
APUN06	nylon, 6 mm		
APUN08	nylon, 8 mm		
APUN10	nylon, 9 mm		
APU005	anti-tangle metal, 5 mm		
APU006	anti-tangle metal, 6 mm		
APU007	anti-tangle metal, 7 mm		
APU008	anti-tangle metal, 8 mm		
APU010	anti-tangle metal, 10 mm		



Pulleys stainless		sing.
APUS10A	up to 10 mm, sheave plastic	
APUX06S	up to 6 mm, sheave plastic, shackle	
APUS03A	up to 3 mm, plastic	
APUX09B	anti-tangle, up to 9 mm, Ø 25 mm	
APUX10A	anti-tangle, up to 10 mm, Ø 32 mm	
APUX14A	anti-tangle, up to 14 mm, Ø 50 mm	



APUS05A	pulley up to 5 mm, sheave plastic	
APUS05D	pulley up to 5 mm, sh. brass nickleled	
APUS05G	double up to 5 mm, sheave plastic	
APUS05J	double up to 5 mm, sh. brass nickleled	



APUS06M	with metal cheek, up to 6 mm, bow	
APUS08M	with metal cheek, up to 8 mm, bow	
APUS10M	with metal cheek, up to 10 mm, bow	



APUS08Q	HD up to 8 mm (600 kg)	
APUS08X	HD up to 8 mm, needle bearing	
APUS10Q	HD up to 10 mm (900 kg)	
APUS12Q	HD up to 12 mm (1200 kg)	



APUS08T	anti-tangle HD up to 8 mm	
APUS10S	anti-tangle HD up to 10 mm	
APUS12S	anti-tangle HD up to 12 mm	



APUS06P	HD for wires, up to 6 mm	
APU820	HD, up to 16 mm (30 kN, aluminum)	



**F: Personal safety**

Positioning	
A7PB20	Work positioning belt



A7L10A	Lanyard LB 10 with adjuster - 1.5m
A7T32	Positioning Lanyard PROT 3 - 2m
A7T33	Positioning Lanyard PROT 3 - 3m



Safety Harnesses	
A7SH2X	LX2, universal, for short-term work
A7SH5X	LX5, for professionals, quick-acting buckles



Climbing accessories	
A7AZ11	Carabiner for climbing, screw lock
A7AZ11T	Carabiner for climbing, twist lock
A7AZ25	Large Snap Hook with lock, opening 88 mm



A7EA2H	Energy absorber with 2 lan. and snap hooks
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**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

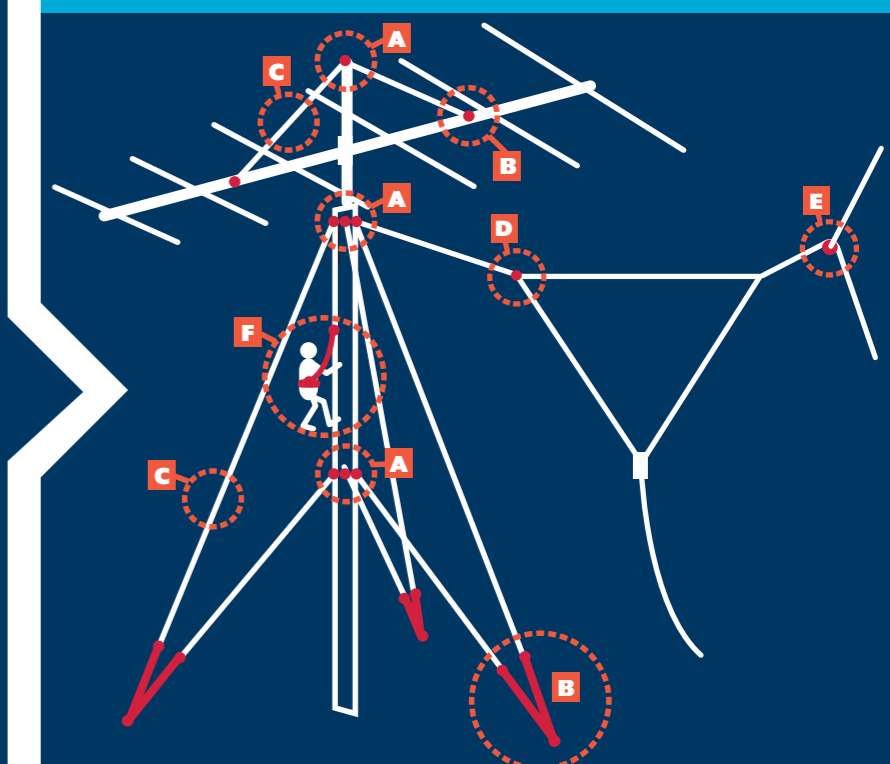
**HOW?**

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

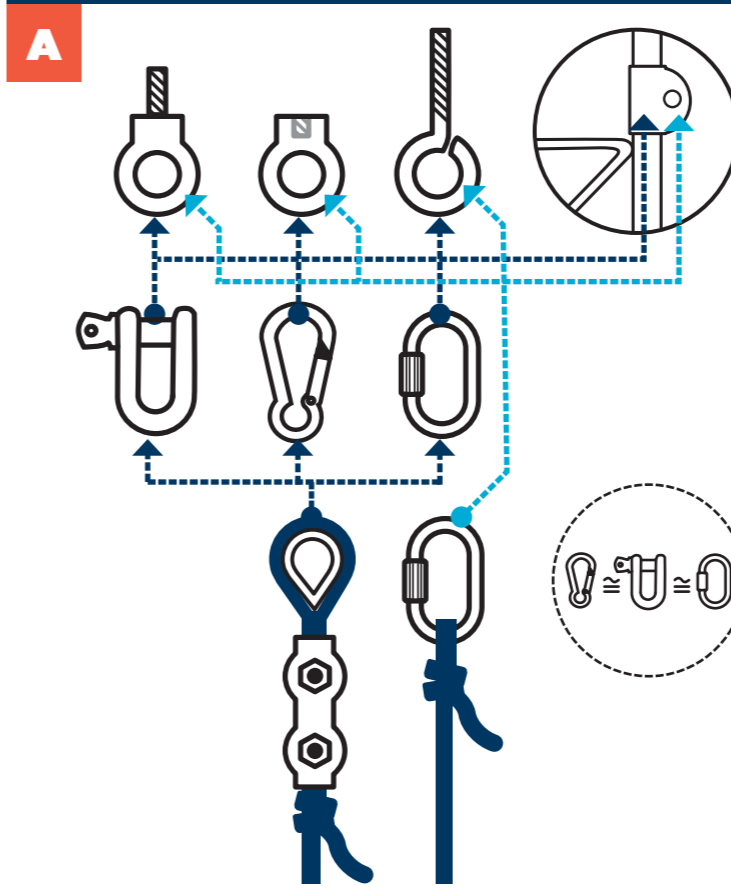


**MASTRANT**  
ANTENNA GUYING

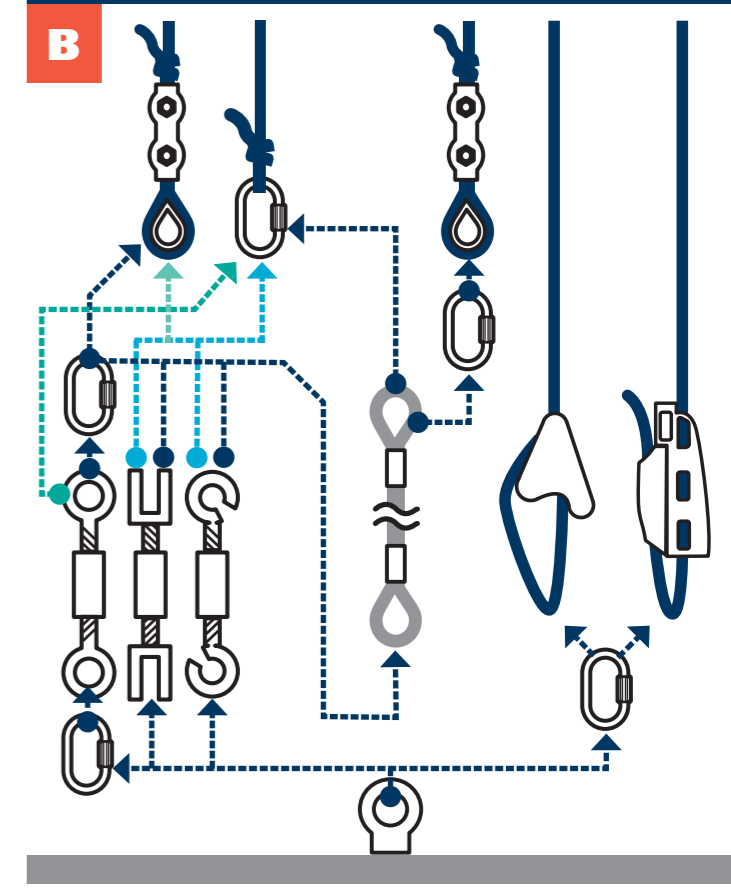
**WHERE WE CAN SUPPORT YOU**



**TERMINATION AND COUPLING**



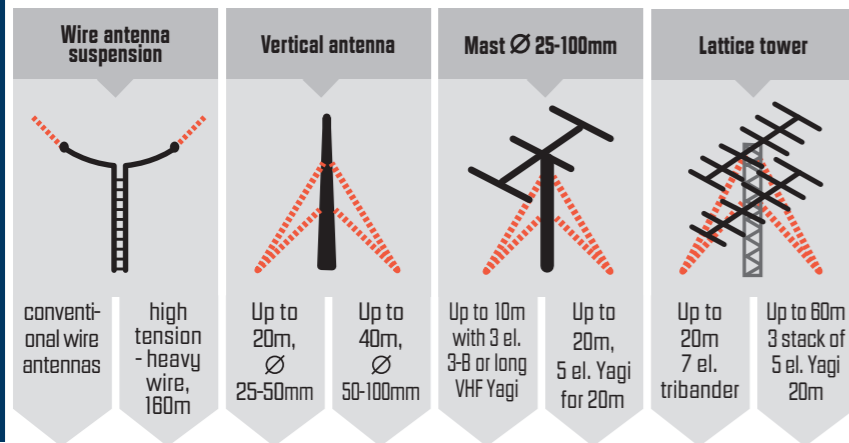
**TENSIONING & ATTACHING**



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# C TYPICAL INSTALLATIONS + RECOMMENDED GUY ROPES

TYPE OF USE



breaking strength [BS] safe working load [SWL]	ROPE TYPE	PRICE € (incl. VAT) Longer spools available	Size of couplers	
			Carabiner	Shackle
[daN, ~kg]	Meters	100 31 1	Chain	Turmbuckle

LEVELS*	2-3	3-5	2-3	3-5	2-3	3-6
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Ø SIZE	MASTRANT CLASSIC	STRETCH = ELONGATION: 2.4%, CORE = POLYESTER & POLYPROPYLENE, COVER = POLYESTER	breaking strength [BS]	safe working load [SWL]	ROPE TYPE	Carabiner	Shackle	Turmbuckle
2 1/16"			100	30	P	5	5	6
3 1/8"			200	60	R	5	5	6
3+ 9/64"			300	90	P	6	5	6
4 5/32"			440	130	P	6	5	6
5 3/16"			540	160	R	6	5	6
6 1/4"			730	220	Q	8	6	8
8 5/16"			1700	510	Q	10	6	8
11 7/16"			2780	830	Q	HD	7	10
14 9/16"			3230	970	Q	-	10	14

Ø SIZE	MASTRANT PREMIUM	EXTRA STRONG	STRETCH = ELONGATION: <1.2%, CORE = DYNEEMA® DM 20, COVER = POLYESTER	breaking strength [BS]	safe working load [SWL]	ROPE TYPE	Carabiner	Shackle	Turmbuckle
1 3/64"				100	30	M	5	5	6
2 3/32"				220	70	M	5	5	6
3 1/8"				390	120	M	6	5	6
4 5/32"				900	270	M	7	5	6
5 3/16"				1200	360	M	8	6	8
6 1/4"				1850	560	M	10	7	10
8 5/16"				2600	780	M	HD	8	12
10 3/8"				3850	1160	M	-	10	16
12 1/2"				5500	1650	M	-	12	20

STRETCH < 1.2%

\* LEVELS = NUMBER OF GUY ATTACHMENT POINTS. OTHER ASSUMPTIONS: WIND SPEED UP TO 160km/h, DISTANCE BETWEEN ANCHOR POINT AND BASE OF MAST > 70% OF THE HEIGHT

DETAILED INSTRUCTIONS, USEFUL TIPS, TRICKS AND ADVICE ON WEBSITE [WWW.MASTRANT.COM](http://WWW.MASTRANT.COM)



# "JEWELLERY FOR YOUR TOWER" PRICES € (INCL. VAT)

## A: Terminating

Thimbles (stainless A4)	breaking strength [BS]	safe working load [SWL]
ATH02	2 mm (min.int.diam. 8 mm)	
ATH03	3 mm (min.int.diam. 10 mm)	
ATH04	4 mm (min.int.diam. 11 mm)	
ATH05	5 mm (min.int.diam. 13 mm)	
ATH06	6 mm (min.int.diam. 14 mm)	
ATH08	8 mm (min.int.diam. 18 mm)	
ATH10	10 mm (min.int.diam. 24 mm)	
ATH12	12 mm (min.int.diam. 30 mm)	
ATH14	14 mm (min.int.diam. 32 mm)	



## Duplex wire rope clips (stainless A4)

ADC02	2 mm (M4, wrench 7)
ADC03	3 mm (M4, wrench 7)
ADC04	4 mm (M5, wrench 8)
ADC05	5 mm (M5, wrench 8)
ADC06	6 mm (M6, wrench 10)
ADC08	8 mm (M8, wrench 13)
ADC10	10 mm (M10, wrench 17)



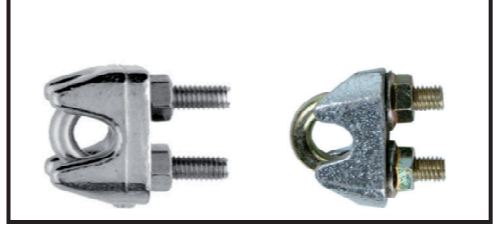
## Fist-grips (galvanised)

APC06	6 mm (5-8 mm, M6)
APC08	8 mm (8-10 mm, M6)
APC10	10 mm (10-12, M8)
APC12	12 mm (12-14, M10)
APC16	16 mm (14-18, M12)



## Bull-dog grips

	S.s.	Galv.
ASC02	2 mm (M3)	
ASC03	3 mm (M3)	
ASC04	4 mm (M4)	
ASC05	5 mm (M5)	
ASC06	6 mm (M6)	
ASC08	8 mm (M6)	
ASC10	10 mm (M8)	
ASC12	12 mm (M10)	
ASC13	13 mm (M10, galv. M12)	



## A, B: Coupling

Spring hooks - Carabiners (stainless A4)	breaking strength [BS]	safe working load [SWL]
AHO04	4 mm (BS: 230 kg)	
AHO05	5 mm (BS: 400 kg)	
AHO06	6 mm (BS: 480 kg)	
AHO07	7 mm (BS: 600 kg)	
AHO08	8 mm (BS: 850 kg)	
AHO10	10 mm (BS: 1150 kg)	
AHOS05	smooth 5 mm (BS: 170 kg)	
AHOS07	smooth 7 mm (BS: 450 kg)	
AHOS10	smooth 10 mm (BS: 950 kg)	



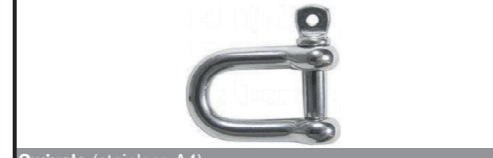
## Chain quick-acting couplers (stainless A4)

ACC04	4 mm, max.opn.5.5 mm (500 kg)
ACC05	5 mm, max.opn.6.5 mm (1350 kg)
ACC06	6 mm, max.opn.7.5 mm (2000 kg)
ACC07	7 mm, max.opn.8.5 mm (2500 kg)
ACC08	8 mm, max.opn.9.5 mm (3300 kg)
ACC10	10 mm, max.opn.12 mm (5500 kg)
ACC12	12 mm, max.opn.14.5 mm (7000 kg)



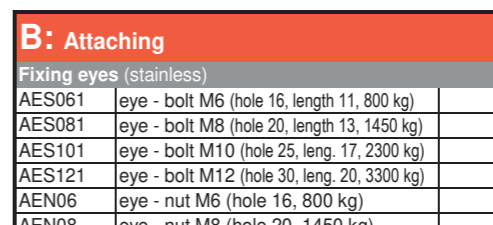
## Shackles (stainless A4)

ASE04	4 mm, 8x14 mm hole (550 kg)
ASE05	5 mm, 10x17 mm hole (900 kg)
ASE06	6 mm, 12x21 mm hole (1300 kg)
ASE07	7 mm, 14x24 mm hole (1800 kg)
ASE08	8 mm, 16x28 mm hole (2400 kg)
ASE10	10 mm, 19x35 mm hole (3800 kg)
ASE12	12 mm, 23x41 mm hole (5550 kg)



## Swivels (stainless A4)

ASW01	6 mm, 12x11 mm hole (1300 kg)
ASW02	8 mm, 16x16 mm hole (2500 kg)



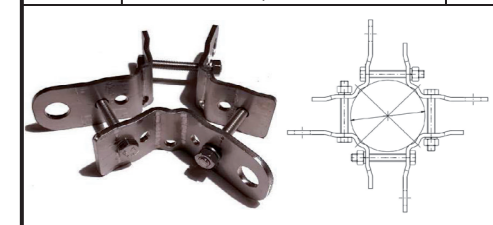
## B: Attaching

Fixing eyes (stainless)	breaking strength [BS]	safe working load [SWL]
AES061	eye - bolt M6 (hole 16, length 11, 800 kg)	
AES081	eye - bolt M8 (hole 20, length 13, 1450 kg)	
AES101	eye - bolt M10 (hole 25, leng. 17, 2300 kg)	
AES121	eye - bolt M12 (hole 30, leng. 20, 3300 kg)	
AEN06	eye - nut M6 (hole 16, 800 kg)	
AEN08	eye - nut M8 (hole 20, 1450 kg)	
AEN10	eye - nut M10 (hole 25, 2300 kg)	
AEN12	eye - nut M12 (hole 30, 3300 kg)	
AEN16	eye - nut M16 (hole 35, 5900 kg)	
AE0540	bolt with eye M5 (5x40)	
AE0640	bolt with eye M6 (6x40)	
AE0860	bolt with eye M8 (8x60)	
AE1070	bolt with eye M10 (10x70)	
A7A836	anchoring set 10x100 mm (3000 kg)	



## B: Attaching

Parts can be used for both 3 or 4 directional setups.	breaking strength [BS]	safe working load [SWL]
MAST CLAMPS (stainless: threads A4, plates A2)		
ACM1306	universal 3 dir., masts Ø 15-53 mm	
ACM1310	universal 3 dir., masts Ø 15-102 mm	
ACM1406	universal 3-4 dir., masts Ø 32-85 mm	
ACM1410	universal 3-4 dir., masts Ø 32-127 mm	



## Mast clamps (stainless: threads A4, plates A2)

ACM230x	light 3 direct., masts Ø 10-34 mm
ACM240x	light 3-4 dir., masts Ø 26-52 mm



## Mast clamps (galvanised)

ACL330	3 directional, masts Ø 30-55 mm
ACL445	4 directional, masts Ø 45-75 mm



## Steel cords with thimble ends (stainless A4) +1 m

ASR206	Ø 2 mm, 6 m (wire ant over tree)
ASR402	Ø 4 mm, 2 m (stainless 7x7, 9 kN)
ASR502	Ø 5 mm, 2 m (stainless 7x7, 15 kN)
ASR602	Ø 6 mm, 2 m (stainless 7x7, 22 kN)
ASR802	Ø 8 mm, 2 m (stainless 7x19, 33 kN)



## C: Terminated guy ropes Mastrant-P & Q

Ready-made guy ropes with a thimble fitted on one end.

	Length: 20 m	30 m
NP040x0	4 mm (5/32"), BS: 220 kg (480 lb)	
NP050x0	5 mm (3/16"), BS: 270 kg (590 lb)	
NQ060x0	6 mm (1/4"), BS: 365 kg (800 lb)	
NQ080x0	8 mm (5/16"), BS: 850 kg (1870 lb)	
NQ110x0	11 mm (7/16"), BS: 1400 kg (3060 lb)	
	Length: 33 m	40 m
NQ140x0	14 mm (9/16"), BS: 1800 kg (4000 lb)	

