



The table below gives RS800 rope lengths optimised for rack setting 5, but we have sailed between rack 3 and 7 comfortably with them. The lengths are given as end-to-end with the lines installed (including splices and knots). An estimate of the total line length you should purchase to account for splicing / knots is also given.

Suggested lengths to add or subtract from per racking setting are given. You can maximise the adaptability of your boat by fitting longer control lines and then routing the take up elastics so that run the full length of the rack.

Suggested line diameters and rope products are given, with a cheaper alternative provided in italics. Generally, any line of similar type will do.



Line or Sheet	Sub-line	Final Length (cm)	Change per rack (cm)	Taper (cm)	Buy (cm)	Diameter (mm)	Rope	Notes
Trapeze								
Trapeze	Mainline	360 crew 370 crew	-	-	800 crew 850 helm	1.8	Marlow Kite line (2.5mm dyneema)	If going for 1.8m kiteline, ensure T terminal is well rounded and protect dyneema with outer covering. Check regularly. Alternatively, up to 2.5mm SK78 Dyneema
Trapeze	Handle height adjuster	50-75 (adjustment range)	-	-	500 helm 500 crew	3	Dyneema D12 SK78	
Trapeze	Adjuster 1:1	75	-	-	400 helm 400 crew	4	Dyneema D12 SK78	
Trapeze	Adjuster 2:1	150	-	-	300 crew 300 helm	4	8 plait pre-stretched	
Trapeze	Elastics	1500	40	-	1500	4	Dyneema elastic cord	Routing of elastics is variable boat to boat and many options exist. 15m should cover most options. Trim so that when both all trapezes are at maximum length, the elastic just taught.
Haylards								
Spinnaker Halyard		1950	-	670	1950	5	Excel Elite 3 (rooster spinfast)	
Main halyard		2200	-	-	2200	4	Dyneema D12 SK99 MAX (rooster halitec)	Shift knot on halyard crane every regatta.



Line or Sheet	Sub-line	Final Length (cm)	Change per rack (cm)	Taper (cm)	Buy (cm)	Diameter (mm)	Rope	Notes
Jib Halyard		1300	-	-	1300	4	Dyneema D12 SK99 MAX <i>(rooster spinfast)</i>	
Spinnaker								
Spinnaker Sheets		1200	10	110 either side of mid-point	1250	8	Excel R8 <i>(Rooster allspec pro)</i>	Create a 20cm dyneema loop, then splice each tapered end to this loop to cow hitch to spinnaker clew. Tie a fisherman's knot in the boat between each sheet.
Tack line		400	-	-	450	3	Dyneema SK78	Put an adjustable splice at mast foot to fine tune spinnaker tack line length. Route tack line through offset hole if aft pole bung
Launch line		320	-	-	400	3	Dyneema SK78	Route launch line in to central hole in aft pole bung
Mainsheet								
Off boom Mainsheet	Sheet	625	10	110	700	7	Excel R8 <i>(Rooster allspec pro)</i>	Move ratchet on boom forward 25cm by lacing between forward mainsheet eye and kicker eye
Off boom Mainsheet	Strops	250	-	-	250	2.5	Dyneema SK78	Protect the rope where it goes around gunwale.
Off boom Mainsheet	Take up	500	-	-	500	2.5	Elastic cord	Adjust length so tail of mainsheet is just within the gunwale with no stretch in take up elastic. Route elastic through

Line or Sheet	Sub-line	Final Length (cm)	Change per rack (cm)	Taper (cm)	Buy (cm)	Diameter (mm)	Rope	Notes
								central eye and to forward bend of bowsprit through offset hole in aft pole bung.
Centre Mainsheet	Sheet	900	10	-	900	8		
Centre Mainsheet	Strops	?	-	-	?	?	?	
Jib Sheet								
4:1 Jib sheet	Sheet	540	10	-	600	5	Excel fusion <i>(Rooster allspec pro)</i>	
4:1 Jib sheet	Secondary	180	-	-	200	3	Dyneema SK78	
4:1 Jib sheet	Clew line	240	-	-	250	3	Dyneema SK78	
3:1 Jib Sheet	Sheet	500	10	?	500	6	Excel fusion <i>(Rooster allspec pro)</i>	
3:1 Jib sheet	Clew line	240	-	-	250	3	Dyneema SK78	
Kicker								
Kicker	control	1350	20	-	1400	4	Excel Control <i>(rooster easysplice)</i>	The main control line can vary depending on the length of your primary and second lines in the cascade and the length of your boom strop. Best to buy plenty then trim to preference when fitting.
Kicker	primary		-	-	150	3	Dyneema SK78	The lengths of these two lines are very depended upon the

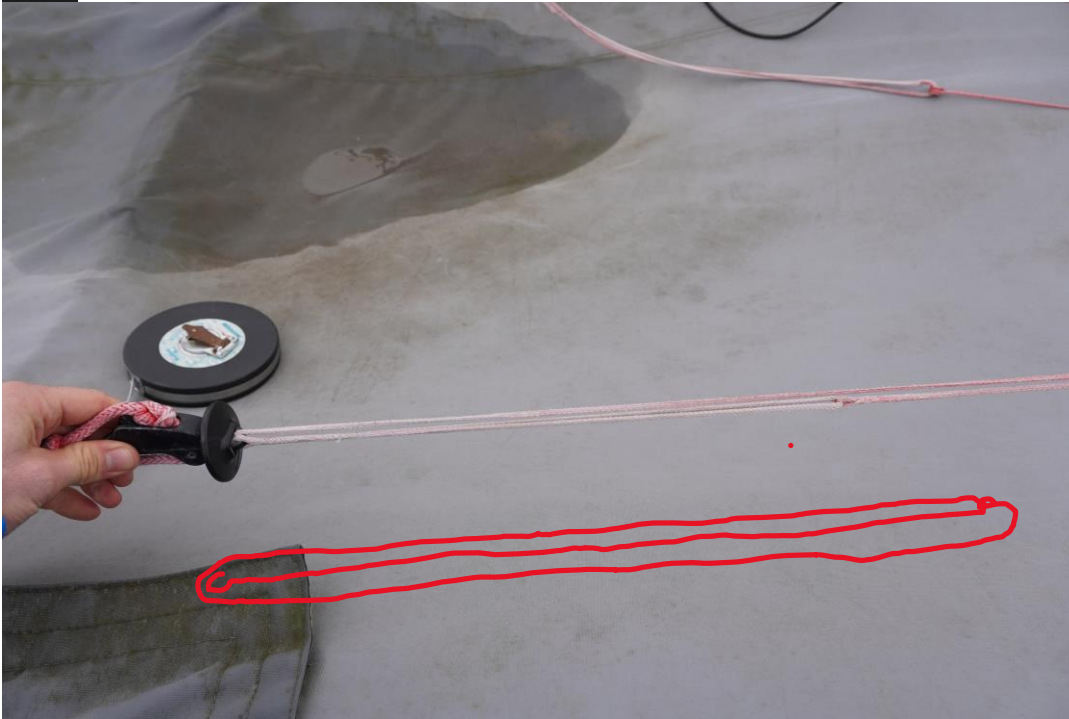
Line or Sheet	Sub-line	Final Length (cm)	Change per rack (cm)	Taper (cm)	Buy (cm)	Diameter (mm)	Rope	Notes
Kicker	secondary		-	-	150	3	Dyneema SK78	strop length you tie around the boom
Kicker	Boom strop	50	-	-	150	3	Dyneema SK78	Tie a 50cm circumference soft shackle to loop through boom eye and block
Cunningham								
Cunningham	Control line	1350	20	-	1400	4	Excel control (<i>rooster easysplice</i>)	This depends on lengths of the cascade and whether you have a 2x2x2 or 2x4 cascade.
Cunningham	Primary	200	-	-	250	3	Dyneema SK78	
Cunningham	Secondary	150	-	-	200	3	Dyneema SK78	Some boats don't use this, and just have a 4:1 on 2x cascade.
Cunningham	Release elastic	150	-	-	150	4	Elastic cord	
Elastics								
Control lines		400	-	-	800	4	Elastic cord	If you want more range on your take up systems (sailing at both ends of rack scale). The take your control elastics from front of rack to back corner, then forward to take up block. If your control lines are tuned to a specific rack setting, then going from mid race to back and then forward to take away block is sufficient.
Kite release		100	-	-	100	4	Elastic cord	Tie from lower down to friction ring between rack and cleat.



1 If going for 1.8m kiteline, ensure T terminal is well rounded and protect dyneema with outer covering. Check regularly. Alternatively, up to 2.5mm SK78 Dyneema



2 The length for the main trapeze line goes down to this low friction ring. Below this is a handle height adjuster which can be altered between 50 and 75cm.



3 This cascade holds on friction and adjusts from 50 to 75 cm.



4 1:1 Trapeze adjuster. 4mm dyneema taken back inside itself. This is 75cm long including knots. It gives about 60cm of adjustment.



5 Kites sheets are tapered down to dyneema core and then eye spliced on to a dyneema loop which is used to clove hitch / luggage tag on to the spinnaker clew.



6 Move ratchet on boom forward 25cm by lacing between forward mainsheet eye and kicker eye



7 Mainsheet has small taper and spliced eye which take up elastic ties to. Jib sheet ties with a clove hitch on to a bite in the main. For take up elastic adjust length so tail of mainsheet is just within the gunwale with no stretch in take up elastic. Route elastic through central eye and to forward bend of bowsprit through offset hole in aft pole bung.



8 4:1 jib shown. This is a 2x2 cascade. This can be achieved by moving the block which is attached to the mast step to form half of the cascade.

