

Strong Lightweight 12 Strand Dyneema/Spectra Lines for I.C. Splicing or Covering

Considerations: Saving Weight, Reducing weight, Shaving weight, Reliability, Your lines will have very heavy sun exposure. You have questions about creep.

Uses: Tapered spinnaker Sheets! Tapered jib sheets! Running backstays! Especially the SK75 products... Wing halyards! Any and all under-deck applications, Cascade systems...

Benefits: Very light, No water absorption, great resistance to UV breakdown. Very strong strength to weight ratios.

Discussion: Since day one in 1986 we have been selling a form of these products. Spectra was the brand name then; now we hear Dyneema, SK75, SK60, Amsteel, Amsteel Blue..., all are UHMWPE. Even though the lab results would lead one to believe the abrasion resistance of the line would be low due to its relatively low melting point, actual life yields the opposite, probably because we are comparing these lines to other lines that have less resistance to UV breakdown. Samson's Amsteel is their previous Spectron 12. Amsteel Blue is made from Dyneema SK75. D12 is made from Dyneema SK75 too.

D12 is a little different in that Marlow applies their proprietary prestretching process called "heat treating" which aligns the individual fibers to allow for equal load bearing on all strands, increasing strength and reducing creep. You will hear us recommend Amsteel for spinnaker sheet applications and other spots where the extra umph of Dyneema is not that critical.

Note About Creep: the Dyneema product has been used in Europe for years as primary halyards, runners etc. For some strange reason, the Europeans are not as paranoid about or have not experienced the creep phenomenon apparently inherent in UHMWPE lines as us state side. They have just started using Vectrans but seem to have been satisfied with Dyneema for the last 12 years as runners and primary halyards etc. So, if you want an incredibly UV stable line that is light, very strong and seems to hold up to abrasion really well, then choose one of these products.

AMSTEEL, SAMSON (100% Amsteel, a.k.a. SK60 Dyneema) Formerly Spectron 12



	7/64"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"
Diameter	7/64"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"
Tensile Strength	1,200 (lbs)	1,800 (lbs)	3,800 (lbs)	6,600 (lbs)	9,800 (lbs)	14,100 (lbs)	16,500 (lbs)
Weight/100 ft.	0.33	0.53	1.04	1.60	2.65	3.71	4.23
Item #	S1274	S1218	S12316	S1214	S12516	S1238	

A great all around 12 strand Dyneema line. Can be used in many applications around the boat from Spinnaker Halyards to jib lead control lines to cascade lines to name just a few. If you plan on doing an offshore race it is a good idea to make up some Amsteel pennants of different lengths to deal with the enviable breakdowns that happen offshore. I was glad to have them in the past years Newport/Bermuda race.

AMSTEEL BLUE, SAMSON (100% Amsteel Blue, a.k.a. SK75 Dyneema) Formerly Spectron 12 Plus



	1/4"	5/16"	3/8"	7/16"
Diameter	1/4"	5/16"	3/8"	7/16"
Tensile Strength	9,200	13,700	20,455	23,925
Weight / 100 ft. Item #	1.60	2.65	3.71	4.23
	AMSB14	AMSB516	AMSB38	

If you need a 12 strand Dyneema line that that is really strong, Amsteel blue is what you are looking for. Check out the breaking strengths. One customer is using 3/8" Amsteel Blue to hold his Melges 24 in a Davits at the end of his dock. Awesome in any application that you need some extra strength. Great durability.

Excel D12, MARLOW (100% Prestretched SK75 Dyneema)



	7/64"	1/8"	3/16"	1/4"
Diameter	7/64"	1/8"	3/16"	1/4"
Avg Break Load	1,345 (lbs)	2,288 (lbs)	5,101 (lbs)	7,143 (lbs)
Weight/100 ft.	0.28	0.40	0.99	1.30
Part #	D12764	D1218	D12316	D1214

Lines to use for I.C. Splice Tails or for Covering

Through experience, we have found that using one of the lines below as a cover material or tail to an IC Splice is the best bet both functionally and price wise.

XLS, SAMSON (Polyester Core with Polyester Cover)

Diameter	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"
Tensile Strength	1,200 (lbs)	2,200 (lbs)	3,300 (lbs)	4,400 (lbs)	5,800 (lbs)	8,300 (lbs)
Weight/100 ft.	1.3	2.3	3.3	4.3	6.2	
Part #	XLS316	XLS14	XLS516	XLS38	XLS716	

STA-SET, NEW ENGLAND (Polyester Core with Polyester Cover)

Diameter	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"
Tensile Strength	1,200 (lbs)	2,000 (lbs)	3,000 (lbs)	4,400 (lbs)	6,600 (lbs)	8,500 (lbs)
Weight/100 ft.	1.1	1.9	3.1	4.6	6.4	8.2
Part #	SS316	SS14	SS516	SS38	SS716	