DATASHEET

SUPERLINE HS 75 & 78

Marlow Superline HS is a high strength, low elongation "jacketed" rope that is a lightweight alternative to steel wire. Firm and round in profile, Superline HS has excellent drum spooling properties and is available with a Polyester jacket, or an HMPE jacket offering outstanding cut and abraision resistance. Other cover and coating options are also available which can improve abrasion and cut resistance, protect the load bearing core and improve the rope's coefficient of friction.

Available in SK75 or SK78 Dyneema®, offering class leading strength, quality and consistency with proven project success and lifetime reliability. In addition, the technical and data support from the experts at Dyneema® and Bio-Dyneema sustainability ensures the product is of superior quality and performance.

Nominal Diameter		Mass (PES Cover)		Mass (HMPE Cover)		Minimum Linear Strength ISO 2307			Minimum Spliced Strength		
mm	Inch	kg/m	lb/100 ft	kg/m	lb/100 ft	kg	lb	kN	kg	lb	kN
22	7/8	0.35	23	0.28	18	29,547	65,138	290	26,861	59,216	264
24	1	0.39	25	0.32	21	36,933	81,423	362	33,576	74,021	329
26	1 1/16	0.49	32	0.42	27	44,320	97,707	435	40,291	88,825	395
28	1 1/8	0.53	35	0.46	30	51,707	113,992	507	47,006	103,629	461
30	1 1/4	0.61	40	0.54	35	66,480	146,561	652	60,436	133,237	593
32	1 5/16	0.69	45	0.62	40	68,942	151,989	676	62,675	138,172	615
34	1 3/8	0.94	61	0.68	44	81,253	179,130	797	73,867	162,845	725
36	1 1/2	0.94	61	0.80	52	81,253	179,130	797	73,867	162,845	725
38	1 9/16	1.02	67	0.88	57	96,027	211,699	942	87,297	192,453	856
40	1 5/8	1.10	72	0.97	63	110,800	244,268	1,087	100,727	222,062	988
42	1 11/16	1.23	80	1.09	71	132,960	293,121	1,304	120,873	266,474	1,186
44	1 3/4	1.31	85	1.17	76	147,733	325,691	1,449	134,303	296,082	1,318
46	1 7/8	1.35	88	1.21	79	155,120	341,975	1,522	141,018	310,886	1,383
48	2	1.55	101	1.37	89	162,507	358,260	1,594	147,733	325,691	1,449
50	2 1/16	1.80	117	1.45	94	177,280	390,829	1,739	161,164	355,299	1,581
52	2 1/8	1.96	128	1.61	105	206,827	455,967	2,029	188,024	414,515	1,845
54	2 3/16	2.04	133	1.77	115	221,600	488,536	2,174	201,454	444,123	1,976
56	2 1/4	2.12	138	1.85	120	236,373	521,105	2,319	214,885	473,732	2,108
58	2 3/8	2.21	143	1.93	126	251,146	553,674	2,464	228,315	503,340	2,240
60	2 1/2	2.37	154	2.10	136	280,693	618,812	2,754	255,176	562,556	2,503
62	2 9/16	2.45	159	2.18	142	295,466	651,381	2,899	268,606	592,165	2,635
64	2 5/8	2.70	175	2.42	157	310,240	683,950	3,043	282,036	621,773	2,767
66	2 21/32	2.86	186	2.58	168	339,786	749,088	3,333	308,897	680,989	3,030
68	2 11/16	3.02	196	2.74	178	369,333	814,226	3,623	335,757	740,206	3,294
70	2 3/4	3.18	207	2.90	189	398,880	879,364	3,913	362,618	799,422	3,557
72	2 13/16	3.34	217	3.07	199	428,426	944,502	4,203	389,478	858,639	3,821
74	2 31/32	3.51	228	3.23	210	457,973	1,009,641	4,493	416,339	917,855	4,084
76	3 1/8	3.67	238	3.39	220	487,520	1,074,779	4,783	443,200	977,072	4,348
78	3 5/32	3.83	249	3.55	231	517,066	1,139,917	5,072	470,060	1,036,288	4,611
80	3 3/16	3.99	260	3.71	241	546,613	1,095,504	5,362	496,921	1,095,504	4,875

Key Specifications:

Material:
Dyneema SK75 / SK78

Construction:
12 strand core / 24 plait cover

Cover:
HMPE or Polyester

Relative Density:
0.97 (HMPE cover), ~1.0 (PES Cover)

Chemical Resistance:
Excellent resistance to most chemicals

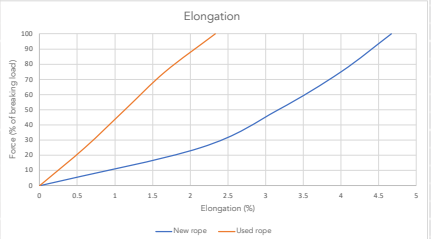
UV Resistance:
Very good

Melting Point:
140°C (HMPE)

Critical Temperature:
80°C (exposure to temperatures over this will result in permanent strength loss)

Creep:
Creep is a factor of load, temperature and time. Increasing any of these factors will increase creep.

Dyneema®	Load	Temp.	Creep Rate	Creep Lifetime
SK75	20%	16 Deg. C	2.3% / yr	7 Years
SK78	20%	16 Deg. C	0.5% / yr	15 Years



Marlow Ropes Ltd
Ropemaker Park
Hailsham
East Sussex, BN27 3GU
England
www.marlowropes.com

Marlow Ropes, Inc.
Cordage Business Park
Plymouth
MA 02360
USA

UK: +44 (0) 1323 444 444
sales@marlowropes.com
US: +1 508 830 444
salesusa@marlowropes.com

MADE IN BRITAIN

REGISTERED ISOQAR 0026

UKAS MANAGEMENT SYSTEMS

Certificate Number 315
ISO 9001
ISO 14001