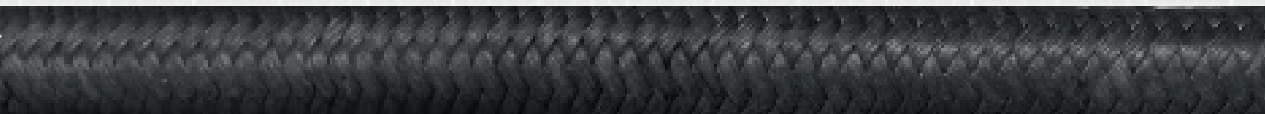


Marlow[®] DATASHEET

DYNALINE DEFENDER SK78 & SK99

Specifically designed for the use in the harshest working environment of the commercial and Military recovery sectors.

The Defender is manufactured from a 100% Dyneema SK78, or sk99 core and a thin protective Dyneema cover thus maintaining optimum strength.



APPLICATIONS:

Winching

MATERIAL:

HMPE (High-Modulus Polyethylene)

BENEFITS:

Very light weight – 8x lighter than steel wire for a given strength.
High strength - 70% stronger than steel wire for a given diameter.
Low Stretch – see graph below.
Good resistance to chemicals and UV.
Zero water shrinkage.
Contrasting cover & core colours providing clear retirement point when core becomes exposed.

CORE

TWISTED FIBRE CONSTRUCTION:

Optimised pitch to yarn twist – improves strength & longevity.
Firmer rounder rope, aids handling.

12 STRAND BRAIDED CONSTRUCTION:

Easy to splice.
Flexible product and easily handled.
Torque balanced.

HEAT SET AND PRE-STRETCHED:

Maximises strength/diameter ratio.
Minimises elongation.

COVER

16 OR 32 PLAIT BRAID:

TWISTED FIBRE CONSTRUCTION:

Thin cover protects core while maintaining max strength.
Firmer rounder rope, aids handling on winches.
May be contrasting colour to core for easy inspection.
Improves abrasion resistance.

COATING

MARLOW ARMOURCOAT:

Specially formulated polyurethane coating.
Improves abrasion resistance and durability.
Increases friction, aids handling & splicing.
Provides colour coding (Black as standard, other colour options available on request).

PHYSICAL PROPERTIES

RELATIVE DENSITY:

0.97 (floats).

CHEMICAL RESISTANCE:

Excellent resistance to most chemicals (additional information available).

UV RESISTANCE:

Very good.

MELTING POINT:

140°C.

CRITICAL TEMPERATURE:

80°C.

TERMINATIONS

SPLICED EYE TERMINATION:

Factory terminated with 12 strand core splice and overbraid.
Choice of thimbles or hooks available upon request (optional).

PERFORMANCE

MATERIAL	DIAMETER	CIRCUMFERENCE	MASS		AVERAGE STRENGTH			MIN STRENGTH		
	mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg	lb	kN
SK78	7	7/8	30.8	2.07	4570	10100	44.8	4250	9380	41.7
SK78	8	1	48.4	3.25	7510	16600	73.7	6980	15400	68.5
SK78	9	1 1/8	57.3	3.84	9390	20700	92.1	8730	19200	85.6
SK78	10	1 1/4	71.1	4.77	10800	23800	106	10000	22100	98.1
SK78	12	1 1/2	88.6	5.94	12600	27800	124	11700	25800	115
SK78	14	1 3/4	109.6	7.35	15100	33300	148	14100	31000	138
SK78	15	1 7/8	124.1	8.32	18000	39700	177	16700	36900	164
SK78	16	2	141.1	9.46	21100	46600	207	19700	43400	193
SK78	18	2 1/4	185.2	12.42	26400	58300	259	24600	54200	241
SK78	20	2 1/2	235.2	15.77	32900	72400	323	30600	67400	300

MATERIAL	DIAMETER	CIRCUMFERENCE	MASS		AVERAGE STRENGTH			MIN STRENGTH		
	mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg	lb	kN
SK99	7	7/8	30.8	2.07	5440	12000	53.4	5010	11000	49.1
SK99	8	1	48.4	3.25	8940	19700	87.7	8220	18100	80.7
SK99	9	1 1/8	57.3	3.84	11200	24600	110.0	10300	22600	101.0
SK99	10	1 1/4	71.1	4.77	12500	27500	123	11500	25300	113.0
SK99	12	1 1/2	88.6	5.94	14600	32100	143	13400	29600	132
SK99	14	1 3/4	109.6	7.35	17500	38600	172	16100	35500	158
SK99	15	1 7/8	124.1	8.32	20900	45900	205	19200	42200	188
SK99	16	2	141.1	9.46	24500	54000	241	22600	49600	221
SK99	18	2 1/4	185.2	12.42	30700	67500	301	28200	62100	277
SK99	20	2 1/2	235.2	15.77	38100	83800	374	35100	77100	344

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