

EXCEL ELITE³



Super high strength core gives the option to down size. The Technora/Dyneema® cover provides ultimate abrasion resistance, heat resistance and grip for halyards, control line and sheets.



APPLICATIONS

High strength lines, high grip lines, halyards, backstays, runners

MATERIAL CORE:

Manufactured from Dyneema SK99 HMPE (High-Modulus Polyethylene)

Very light weight - more than 8x lighter than steel wire for a given

strength

Low stretch - see table below

Good resistance to chemicals and UV

Zero water shrinkage

Manufactured from Technora Dyneema® blend

Good UV resistance

Excellent abrasion and heat resistance

CONSTRUCTION

COVER:

TWISTED FIBRE CONSTRUCTION: 12 STRAND BRAIDED CORE CONSTRUCTION: Improved abrasion resistance

Optimised pitch to yarn twist - improves strength & longevity

Firmer rounder rope, aids handling

Easy to splice

Flexible product and easily handled

Torque balanced

24 PLAIT COVER CONSTRUCTION: Protects load bearing core from dirt and abrasion

Round and firm construction

PROPERTIES

RELATIVE DENSITY: 1.1 Exact figure varies with diameter

CHEMICAL RESISTANCE: Excellent resistance to most chemicals (additional information available on request)

UV RESISTANCE: Good **MELTING POINT:** 140°C

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

TERMINATIONS

SPLICED EYE TERMINATION: 12 strand core splice

An allowance of 40x rope diameter should be made for the overall length of the

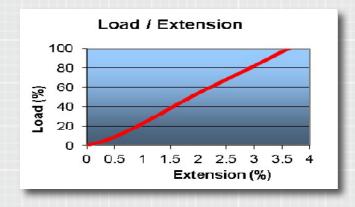
To optimise the efficiency of a soft eye splice (without a thimble), the angle formed at the neck of the splice should be 30° or less, meaning that when flat, the length of the eye must be 2.7x the diameter of the object over which the splice will be used.

ELONGATION

Typical working elongation (for a bedded in a rope):

@ 10% of break load: 0.51% @ 20% of break load: 0.89%

To break: 3.60%



PERFORMANCE

DIAMETER	CIRCUMFERENCE MASS		AVERAGE STRENGTH			MIN STRENGTH			
mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg	lb	kN
4	5/32	9.9	0.66	1180	2610	11.6	1070	2350	10.5
5	3/16	14.7	0.99	1710	3760	16.7	1540	3390	15.1

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