DATASHEET ®

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

COVER:

CONSTRUCTION
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

Protects load bearing core from dirt and abrasion

Round and firm construction

24 PLAIT COVER 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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