Marlow®

DATASHEET

EXCEL RACING GP 78

Excel Racing GP 78 offers an upgraded cover to Excel Racing. The Technora/Polyester blended cover offers superb abrasion resistance and added grip both in wet hands and cleats.

APPLICATIONS	High Grip Lines, Control Lines, Halyards, Backstays
MATERIAL	
CORE:	Manufactured from Dyneema SK78 HMPE (High-Modulus Polyethylene) Very light weight - more than 8x lighter than steel wire for a given strength High strength - 80% stronger than steel wire for a given weight Low stretch - see table below Good resistance to chemicals and UV Zero water shrinkage Low creep
COVER:	Manufactured from Technora Polyester blend Good UV resistance Excellent abrasion and heat resistance
CONSTRUCTION	
TWISTED FIBRE CONSTRUCTION:	Improved abrasion resistance
12 STRAND BRAIDED CONSTRUCTION:	Optimised pitch to yarn twist - improves strength and longevity Firmer rounder rope, aids handling Easy to splice Flexible product and easily handled Torque balanced
24 PLAIT BRAIDED COVER CONSTRUCTION:	Protects load bearing core from dirt and abrasion Round and firm construction

PROPERTIES	
RELATIVE DENSITY:	1.15 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

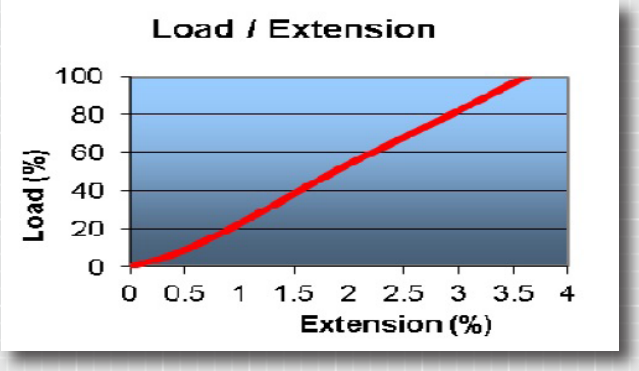
SPLICED EYE TERMINATION:

12 strand core splice
An allowance of 40x rope diameter should be made for the overall length of the splice.
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.
A splice will normally increase the diameter of the rope between 1.5x and 1.75x

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	11.2	0.83	995	2189	9.8	855	1881	8.4
5	3/16	19.5	1.23	1434	3155	14.1	1070	2354	10.5
6	7/32	27.2	1.62	2056	4523	20.2	1520	3344	14.9

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