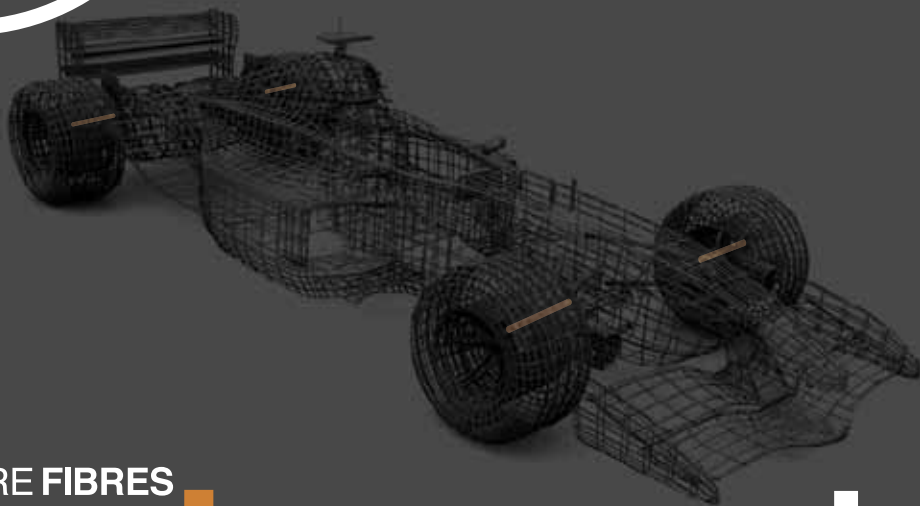


futurefibres
motorsport



FUTURE FIBRES

motor**sport**



FUTUREFIBRES

Over the last 10 years Future Fibres has established itself as the world's leading composite rigging supplier. Pioneering the development of continuously wound PBO for standing rigging on racing yachts and being at the forefront of wheel tethers (SWEM) for Grand Prix and IRL racing cars.

Future Fibres has been instrumental in the evolution of FIA approved wheel tethers, in close cooperation with teams, circuits and governing bodies, from the original break strength tethers to the ever changing energy absorbing tethers. Future Fibres is the only company in the world that can provide a full range of wheel tethers to satisfy both the break strength and energy absorbing requirements of the FIA and IRL. In 2009 a new range of fully optimised tethers will be available to NASCAR



With over 65 trained staff at its purpose-built facilities in Valencia, Spain and Newport, R.I. Future Fibres is 100% focused on the design and manufacture of composite cables. Constant research into new materials and in-house testing means that we can achieve maximum performance for minimum size and weight, while ensuring that safety remains the top priority.



PRODUCT description

energy absorbing break strength RACE CAR safety tethers

EAT Tethers are built to stretch thereby dissipating energy while failing at a controlled load. They are built to a constant diameter to ensure consistent performance along the complete length of the tether, while providing a lightweight and malleable solution.

BST Tethers are built to withstand a nominal predetermined load; these use the patented Future Fibres loop technology with no weak links enabling the smallest possible diameter and therefore the lightest tether.

Race Car safety tethers are divided into two groups

**Energy absorbing tethers (EAT) and
Break strength tethers (BST).**

The tether type is usually dictated by the Governing body of each circuit. The present FIA regulations controlling **F1** and **F3** circuits among others stipulate that the tethers must be energy absorbing (**EAT**) tethers. **Indy Cars** and **NASCAR** use predominately break strength cables (**BST**).

FF Motorsport has experience of supplying to a full range of clients from small one-off teams to large chassis manufacturers as well as whole circuits. Likewise it is able to deal with both one-off custom requirements as well as providing an extensive range of circuit specific cables.



ff motorsport

PRODUCT

All our tethers are homologated following rigid testing at the **FIA** approved Transport Research Laboratory (**TRL**) in Berkshire, England, and by the **SFI** in San Diego, California.

Bst	Diameter (mm)	Weight (g)
50kn	6mm	48
70kn	7mm	60
100kn	9mm	91

Eat	Diameter (mm)	Weight (g)
2kj	9.25	48
3kj	9.5	52
4kj	12	83
6kj	13.5	109

Weight given is for a 600mm test cable

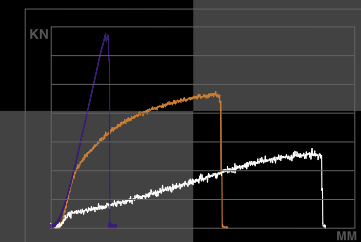


TECHNICAL data

The **FF Motorsport** design team in conjunction with chassis and gearbox manufacturers, is constantly updating, improving and designing new ways of interfacing the cables and improving their design. We have an extensive R&D department with several in-house test facilities specifically designed for the development of wheel tethers.

We use our build technology to maximise the inherent material properties of strength bearing fibres to produce the lightest and strongest tethers on the market.

As a direct result, we have experience in a wide range of:



GENERIC FIBRES

PBO, Carbon

Aramids; Kevlar, Technora, Twaron

Performance enhancing fibres, Nomex, Spectra, Nylon

CUSTOM TERMINATIONS

'Future Fibres Soft Loop' as an alternative to metal spool type fittings

Metallic Fittings (Spools or Thimbles); Titanium, Aluminium, Stainless Steel

Delrins, Nylons, Peek and Plastics

Crumple Zones

COVERS

Heat protection

Flexibility

Custom braids

Moulded sections

Chafe resistance


Strength

Aero sections



and are well placed to provide expert advice in searching for the best tether to suit your specific requirements.





“Future Fibres provides a level of expertise and professionalism both in technical knowledge and customer service, it has been a pleasure working with them over the last 10 years and we look forward to continuing this relationship.”

Force India Formula One

motor
sport



CLIENT LIST

A1GP
AGF
Andretti Green Racing
Bar Honda
Caparo
Chamcar
Comtec
Dallara
Delta Motorsport
Dome
Elan Motorsport
F2000
Ferrari
Force India
Formula 2

Formula 3
Formula BMW
Formula Ford
Formula Mazda
Formula Nippon
Formula Palmer Audi
G-Force
Gloria
GP2
GP3
Indy Pro Series
Indy Racing League
Jaguar F1
Jordon
Lola Cars

Martini
McLaren
Midland F1
M-sport
Mygale
Raynard
Red Bull F1
Renault F1
SLC
Spyker
Super Aguri F1
Swift Engineering
Toro Rosso
Van Diemen
Williams
World Series By Renault



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