

COUSIN TRESTEC OCEANOLOGY RANGE

KING ROPE® TEXTILE CABLE

*Compact, stable,
easy to use*



CONSTRUCTION

Technora® aramid long-pitch braided core.
Polyurethane interface film.
Fine braided sheath in high-tenacity polyester.

KING ROPE® is mostly used for hoist cables, given its excellent resistance to bending. Used in oceanology for mooring and recovery lines. In the yachting world, KING ROPE® cable is used for applications in runners, luff of the sail on the hoist, backstays and standing rigging in general.

ADVANTAGES

- High breaking strength for a diameter similar to that of cable steel
- Barely any load elongation
- Extremely lightweight, 4 to 5 times lighter than steel
- Exceptional resistance to fatigue caused by bending, even when alternately bending and unbending
- Total insensitivity to corrosion
- Non-magnetic, it does not cause interference with transmission systems
- Fully non rotating
- Chemically neutral, it does not contaminate water samples.

Ø mm	Nominal resistance Kg	Weight in air g/m	Weight in sea water g/m
3.9	1 250	12	3
4.8	1 500	19.5	5
6.3	3 100	30	8
7	3 500	35	9
7.7	4 800	45	12
8.7	6 300	60	16
9.5	6 700	68	18
10.8	9 200	90	23
12.5	12 000	124	32
16	17 500	180	47
17.5	19 500	235	61
19	25 000	282	74
22	30 000	345	90
25	40 000	473	123
27	50 000	576	150
30	60 000	690	180

ARAMCABL' TEXTILE CABLE

*Maneuverability, durability,
excellent resistance to friction*



CONSTRUCTION

Technora® aramid long-pitch braided core.
Polyurethane interface film. Thick braided sheath in polyester multifilament.

Aramcabl' ushers in a new generation of powerful cables. It is perfectly suitable for moorings and ropes used during manoeuvring. It can be used in ports where cable steel was previously required by regulations.

ADVANTAGES

- Lightweight, easy to handle and flexible
- High breaking strength and high resistance to elongation
- Does not whip about if ever it breaks
- Easy to splice

Ø mm	Nominal resistance Kg	Weight in air g/m	Weight in sea water g/m
8	2 600	48	12
10	3 500	70	18
11.5	5 100	95	25
13.5	7 000	135	35
16	10 500	203	52
18	14 000	262	66
20	17 500	310	79
23	22 500	410	104
25	28 000	509	130

Ø mm	Nominal resistance Kg	Weight in air g/m	Weight in sea water g/m
28	34 000	625	160
30	39 000	710	180
32	45 000	830	210
36	55 000	1040	270
40	65 000	1200	310
44	80 000	1530	410
52	105 000	2090	530
58	128 000	2610	660
63	150 000	3090	780

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TEXTILE CABLES for OCEANOLOGY



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BRAID TO LINK THE WORLD



THE TEXTILE SOLUTION

With its range of powerful textile cables, including COSA®, KING ROPE® and DYNALIGHT® cables, Cousin Trestec has forged a reputation as the benchmark in the highly specialised field of oceanology.

Many companies and organisations involved in deep-sea research have opted for these truly high-tech synthetic cables.

As pioneers in the field, the French manufacturer Cousin Trestec supplies scientists with top-rate cables boasting indisputable qualities, with a solid global reputation in the fields of coring, dredging and trawling.

These ropes are often made of pieces over 8,000 meters long (this is necessary for deep-sea operations) made of the best fibres like Technora® and Dyneema®.

They have become the textile solution, preferred over steel cables which are too heavy for use in these extreme conditions, have a dynamic behaviour in handicapping steepness and are little flexible in use (splicing, lashing, etc.).

UNIQUE QUALITIES FOR DEEP-SEA APPLICATIONS

Even when subjected to the tides, swell and pressure at great depths, COSA®, KING ROPE® and DYNALIGHT® cables maintain all their mechanical properties.

These textile cables enjoy great stability when loaded, making for high levels of accuracy in manoeuvring and effective core recovery of sediment.

As the product of collaboration with ocean research institutes, these textile cables withstand the great stress placed on them by winches and corrosion. Some of our ropes are extremely round, making them easy to wind on grooved drums on naval winches.

COSA® cables are unique: they may be equipped with optical fibres and electrical conductors and boast all necessary qualities to establish market leadership.

After winning the “Blue Ribbon” distinction few years ago for coring depth records Cousin Trestec cables may once more be set to carry off some other distinctions.

COUSIN TRESTEC

DYNALIGHT® TEXTILE CABLE

Lightweight, highly versatile, boasting high-tenacity and reparability



CONSTRUCTION

Dyneema® 12-strand single braid

HMPE (high modulus polyethylene fibre) DYNALIGHT® cables have become the most popular cables on the traction cable market. Cousin Trestec supplies several versions, single - or double - braided 12 x 12, and with Dyneema® fibres of varying tenacity. They are highly versatile, used on the most demanding of winches as well as lifting or towing cables.

DYNALIGHT® CABLES ARE MOSTLY CHOSEN FOR THE FOLLOWING PROPERTIES:

- exceptional tensile strength, boasting the best Ø/breaking strength ratio
- highly stable when loaded, especially once the cable has been “broken in”
- incomparably lightweight, DYNALIGHT® cables can float
- amazing bending resistance
- insensitive to many chemicals, UV rays and corrosion
- easy to splice, making it functional in all circumstances

USE

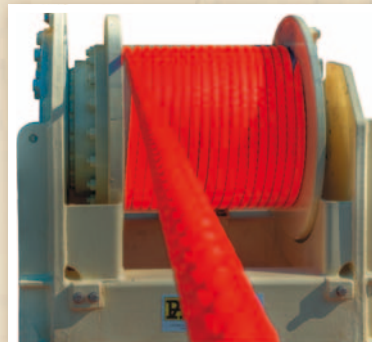
The highly versatile DYNALIGHT® cable can be used in many applications: hoist cables, lifting slings, towing bridles, warp cables, etc.

APPLICATIONS

DYNALIGHT® cables are extremely lightweight and flexible. They facilitate manoeuvring. They are easy to splice, buckle and join lengthwise.

Ø mm	Breaking Strength/Kg	Kg/100 m
3	1 100	0.5
4	1 600	0.7
5	2 500	1.2
6	3 500	2
8	6 500	3.5
10	10 000	5.2
12	13 000	8
14	18 000	10.5
16	21 500	15
18	25 000	18
20	29 000	22
22	33 000	26
24*	36 000	30

* Larger diameter on request



OCEANOLOGY RANGE

COSA® TEXTILE CABLE

Compact, stable, waterproof, highly resistant to abrasion



CONSTRUCTION

Technora® Marine Finish aramid long-pitch braided core. Polyamide braided interface sheath. Black polyester elastomer sheath.

COSA® aramid cable was developed in collaboration with ocean research institutes in response for their need to procure cables suitable for deep-sea applications.

A lightweight, compact cable, round enough to be wound properly onto grooved winch drums.

ADVANTAGES

- High resistance to abrasion and cuts thanks to an extruded sheath
- Dimensional consistency even over great lengths
- High breaking strength
- Fully withstands atmospheric agents and chemicals
- Barely any load elongation
- Extremely lightweight, 4 to 5 times lighter than steel
- Exceptional resistance to fatigue caused by bending
- Total insensitivity to corrosion
- Non-rotating construction, with perfect balance
- Non-magnetic, it does not cause interference with transmission systems

Ø mm	Nominal resistance Kg	Weight in air g/m	Weight in sea water g/m
6	1 800	34	7
7	2 700	45	9
8	3 600	60	12
9	5 000	74	16
9.5	6 200	85	18
11	8 000	124	25
12	9 200	127	27
12.7	10 000	150	30
13.5	12 000	161	34
15.8	16 000	220	46
17.3	20 000	264	56
19.4	25 000	325	69
25	40 000	532	113
29	50 000	713	150

