

# DuraTEN / DuraTEN+

Our high-strength fiber rope made from high-tech fibers offers a high level of strength in relation to its weight. Its high bending fatigue strength and long lifetime make this rope perfect for the high-end segment.

## Specifications

- Diameter: 5–72 mm

### Core:

- DuraTEN: UHMWPE
- DuraTEN+: Dyneema® SK78

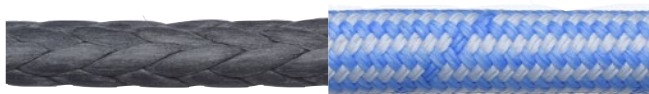
### Variants:

- DuraTEN / DuraTEN+: without cover
  - DuraTEN Pro-P / DuraTEN+ Pro-P: with PES cover
- ✓ For the lifting of loads, certification to Machinery Directive 2006/42/EC, as amended from time to time, is possible.

## Segments



## Colors



Core:  
dark-gray

PES Cover:  
blue/white

Other colors available on request.

## Advantages of DuraTEN

- ✓  $\frac{1}{7}^{\text{th}}$  of the weight of comparable steel wire ropes, maximum breaking strength – comparable to that of a steel wire rope of the same diameter
- ✓ No corrosion, no contamination with rope grease
- ✓ No injury risk, easy and quick to handle
- ✓ Flexible design
- ✓ Highly abrasion resistant, especially when provided with a cover
- ✓ High bending fatigue strength and long service life
- ✓ The kinetic energy released when the rope is damaged is considerably less than in steel wire ropes

## Advantages of DuraTEN+

DuraTEN+ offers all the benefits of DuraTEN, plus the following additional advantages:

- ✓ Made from original Dyneema® SK78 fibers
- ✓ Exhibits reduced UHMWPE-typical creep
- ✓ Offers very high bending fatigue strength and extremely long lifetime. Compared to the standard fiber, the XBO variant offers a 300-400 % longer lifetime in terms of bending cycles

## Technical specifications

Core Ø / Rope Ø without cover mm	Rope Ø with cover mm	Weight		MBF* kN
		DuraTEN / DuraTEN+ g/m	DuraTEN Pro-P / DuraTEN+ Pro-P g/m	
5	7	15	35	21
6	8	20	42	35
7	9	27	52	43
8	10	34	61	55
9	11	44	75	72
10	12	54	88	85
11	13	65	101	107
12	15	76	137	125
14	17	107	179	160
16	20	144	259	220
18	23	183	332	275
22*	28	248	442	378
24*	30	291	508	436
26*	32	332	569	500
28*	34	392	653	591
30*	36	445	749	663
33*	40	502	902	738
35*	42	564	985	823
38*	44	620	1,050	912
40*	48	850	1,447	1,134
42*	50	1,042	1,657	1,343
48*	60	1,223	2,197	1,525
52*	64	1,510	2,610	1,810
56*	68	1,704	2,848	2,148
60*	72	1,914	3,106	2,353
64*	77	2,283	3,729	2,651
66*	82	2,405	4,255	2,800
72*	88	2,817	4,786	3,332

\* Minimum breaking force spliced

Standard tolerance:  $\pm 3\%$ , other rope diameters are available upon request.

The values are provided for guidance only. The metric figures shall prevail. Subject to further developments which may lead to changes in technical specifications. Subject to changes and errors.

### Scope of use of DuraTEN

Industrial applications that require high breaking forces, bending fatigue strength, and low elongation in combination with minimal weight such as:

- ✓ Vehicle winches for offroad, maintenance, recovery and military vehicles
- ✓ Overhead line construction
- ✓ Motor winches
- ✓ Mounting ropes
- ✓ and many others

### Scope of use of DuraTEN+

DuraTEN+ is used for industrial applications that require high breaking forces, bending fatigue strength, and low elongation in combination with minimal weight such as:

- ✓ Indoor cranes
- ✓ Lifting tackles / slings
- ✓ High-tech winches
- ✓ Static applications that allow minimal elongation and no creep