

PRODUCTS CATALOGUE



Duguva

About The Company

UAB "Duguva" is a Lithuanian capital company, established in 1998. Today, it is a modern dynamic company with 10.000 m² of facilities and two decades of a prosperous experience using state of the art equipment and applying modern technologies. The high-quality products are well- known around the world. We pay special attention to the quality and functionality of our products.



Our products are used in shipping and building industry, glass production, in fishery, for agriculture and gardening, in heavy and light industry, in transport, sports and tourism equipment as well as for the variety of household purposes and other applications.


We pay special attention to the quality of our products and effective sales.

Our production:

- UHMWPE Dyneema
- Elastic cords
- Polypropylene cords
- Nylon cords
- Polyethylene cords
- Twines
- Webbing
- Sisal cords
- Knitted cords
- Cotton cords
- Jute cords
- Linen cords
- Electric fences

Packaging options:



A close-up photograph of two thick synthetic ropes. The rope on the left is bright yellow, and the rope on the right is dark grey. Both ropes are braided in a complex, multi-strand pattern. They are positioned diagonally across the frame, with the yellow rope in the foreground and the grey rope slightly behind it. The background is a plain, light-colored surface.

Synthetic cords and webbings are made from high tenacity materials:

- UHMWPE
- Polypropylene split film
- Polypropylene multifilament
- Polyester
- Nylon
- Polyethylene

Synthetic Fiber Ropes

DynStrength ropes are made with a fiber named UHMWPE. Our ropes of UHMWPE are equipped with a specially developed industrial coating, which improves the external wear resistance of the rope. This coating provides a lubricating effect between the fibers. It is the strongest fiber in the world and it is more than 8 times stronger than steel per unit of weight. It is a fiber that ensures a stable performance in your rope.

Significant features of the UHMWPE rope:

- Extremely easy
- Longer life and easyhandling
- Resistant to abrasion and heat
- High UV resistance
- Not spilled in water
- The lowest elongation



Ø, mm	3	4	5	6	7	8	9	10	12	14
Weight, 100 m/kg	0,5	1,1	1,5	2	2,7	3,6	4,4	5,5	8,0	10
Breaking load, kg	900	1400	2200	3700	4600	6000	9200	10000	14000	18000

Ø, mm	16	17	18	20	22	24	26	28	30	32
Weight, 100 m/kg	14	16	20	22	27	33	37	43	48	55
Breaking load, kg	24000	27000	35000	38000	45000	53000	61000	69000	78000	87000

Available rope colors:



Yellow



Blue



Orange



Grey

Synthetic Fiber Ropes



DynStrenght with Polyester cover:

The Polyester jacket serves as the protective outer layer of the rope. Polyester is chosen for its durability and resistance to abrasion, UV rays, and chemicals. The jacket helps protect the UHMWPE core from external factors that could potentially damage the rope.

High Strength: UHMWPE ropes are known for their exceptional tensile strength. The UHMWPE core provides the primary strength of the rope, making it suitable for demanding applications.

Low Stretch: UHMWPE fibers have minimal stretch, ensuring that the rope maintains its shape and integrity even under heavy loads. This low stretch is beneficial for precision and control.

Abrasion Resistance: The polyester cover adds an extra layer of protection to the UHMWPE core, making the rope highly resistant to abrasion. This property is essential for extended rope life, especially in applications where the rope may rub against rough surfaces.

Chemical Resistance: Polyester is generally resistant to a wide range of chemicals, which enhances the rope's suitability for various environments.

UV Resistance: Polyester is known for its UV resistance, and the cover helps protect the UHMWPE core from UV degradation. This makes the rope suitable for prolonged exposure to sunlight.

Durable: UHMWPE ropes with polyester covers are durable and offer a longer service life, even in challenging conditions.

Ø, mm	3	4	5	6	7	8	9	10	12	14
Weight, 100 m/kg	0,5	1,1	1,5	2	2,7	3,6	4,4	5,5	8,0	10
Breaking load, kg	900	1400	2200	3700	4600	6000	9200	10000	14000	18000

Ø, mm	16	17	18	20	22	24	26	28	30	32
Weight, 100 m/kg	14	16	20	22	27	33	37	43	48	55
Breaking load, kg	24000	27000	35000	38000	45000	53000	61000	69000	78000	87000

Synthetic Fiber Ropes



DynStrenght with UHMWPE cover:

High Strength: The UHMWPE jacket enhances the overall strength of the UHMWPE rope. UHMWPE is known for its exceptional tensile strength, and when used for both the core and jacket, it results in a rope with outstanding overall strength.

Low Stretch: UHMWPE fibers in both the core and cover have minimal stretch, which means that a UHMWPE rope with a UHMWPE jacket exhibits very low elongation under load. This property is valuable in applications where precise control and minimal stretch are essential.

Abrasion Resistance: UHMWPE is highly resistant to abrasion, and the UHMWPE jacket provides an additional layer of protection to the core, making the rope highly durable in conditions where abrasion is a concern.

Chemical Resistance: UHMWPE is generally resistant to many chemicals. When used for the jacket, it adds a layer of chemical resistance to the rope, making it suitable for use in environments where exposure to chemicals is expected.

UV Resistance: UHMWPE has good resistance to ultraviolet (UV) radiation, and the jacket helps protect the core from UV degradation. This makes the rope suitable for prolonged exposure to sunlight.

Buoyancy: UHMWPE ropes, including those with UHMWPE jackets, are buoyant and tend to float on water. This buoyancy can be advantageous in marine applications.

Durable: UHMWPE ropes with UHMWPE jackets are known for their durability and longevity. The jacket adds an extra layer of protection, enhancing the rope's resistance to wear and tear.

Lightweight: UHMWPE is a lightweight material, and the jacket contributes to the overall lightness of the rope. This can be advantageous in applications where weight is a consideration.

Ø, mm	3	4	5	6	7	8	9	10	12	14
Weight, 100 m/kg	0,5	1,1	1,5	2	2,7	3,6	4,4	5,5	8,0	10
Breaking load, kg	900	1400	2200	3700	4600	6000	9200	10000	14000	18000

Ø, mm	16	17	18	20	22	24	26	28	30	32
Weight, 100 m/kg	14	16	20	22	27	33	37	43	48	55
Breaking load, kg	24000	27000	35000	38000	45000	53000	61000	69000	78000	87000

Synthetic Fiber Ropes

Nylon is a one of the strongest material in rope production. The nylon ropes are made of high tenacity and UV – stabilized yarns.

Main properties:

- Specific weight — 1,14 g/ cm³ (sinks)
- Melting temperature — 215 °C
- Good UV – resistance
- Resistance to abrasion
- Higher breaking load

Twisted Nylon Ropes



Ø, mm	4	6	8	10	12	14
Weight, 100 m/kg	0,7	1,6	2,9	4,5	6,5	8,9
Breaking load, kg	305	650	1110	1690	2390	3220

Ø, mm	16	18	20	22	24
Weight, 100 m/kg	15,8	20	24,7	29,9	35,5
Breaking load, kg	5190	6430	7920	9400	11200

Braided Nylon Ropes

12-strand



Ø, mm	12	16	20	24	28	30	32	36	40	44	48	52
Weight, 100 m/kg	9	16	25	36	49	56	64	81	100	121	144	170
Breaking load, kg	3212	5710	8158	12033	16315	18355	21617	27022	32121	38239	45887	54045

Braided Nylon Ropes

8 - strand, 16 - strand, 24 - strand



Ø, mm	1	2	3	4	5	6	8
Weight, 100 m/kg	0,1	0,3	0,7	1,2	1,7	2,4	3,8
Breaking load, kg	42	109	350	550	845	1457	1800

Ø, mm	10	12	14	16	18	20
Weight, 100 m/kg	6,5	9,3	11,5	17,5	21	26
Breaking load, kg	2565	3384	3951	5850	6660	8730

Synthetic Fiber Ropes

Polypropylen split film are smooth floating rope which is lighter than rope made from polyester and polyamide.

Main properties:

- UV resistance
- Do not absorb water
- Floating
- Melting temperature – 170°C

Twisted Polypropylene Split Film



Ø, mm	4	6	8	10	12	14	16
Weight, 100 m/kg	0,7	1,6	2,9	4,5	6,5	8,9	11,6
Breaking load, kg	305	650	1110	1690	2390	3220	4070

Ø, mm	18	20	22	24	26	28	30
Weight, 100 m/kg	14,6	18,1	21,9	26,0	30,6	35,4	40,7
Breaking load, kg	5190	6260	7500	8770	10140	11550	13200

Braided Polypropylene Split Film



Ø, mm	4	6	8	10	12	14	16
Weight, 100 m/kg	0,7	1,6	2,9	4,5	6,5	8,9	11,6
Breaking load, kg	310	660	1130	1720	2400	3290	4150

Ø, mm	18	20	22	24	26	28	30
Weight, 100 m/kg	14,6	18,1	21,9	26,0	30,6	35,4	40,7
Breaking load, kg	5290	6380	7650	8940	10340	11770	13460

Synthetic Fiber Ropes

Polypropylene multifilament ropes are good in resistance of chemical habitat and average resistance to abrasion. All polypropylene multifilament ropes are made from high tenacity polypropylene.

Main properties:

- Good UV resistance
- Specific weight - 0,91 g/cm³ (floats)
- Do not absorb water
- Floating
- Melting temperature - 170°C
- Soft touch

Braided Polypropylene Multifilament Ropes



Ø, mm	1,5	2	3	4	5	6
Weight, 100 m/kg	0,12	0,25	0,4	0,8	1,5	2,1
Breaking load, kg	48	98	150	270	378	650

Ø, mm	8	10	12	14	16
Weight, 100 m/kg	3,6	4,5	6,5	8,8	11,3
Breaking load, kg	900	1300	2160	2890	3700

Twisted Polypropylene Multifilament Ropes



Ø, mm	4	6	8	10	12	14	16
Weight, 100 m/kg	0,7	1,8	3	4,5	6,5	9	11,5
Breaking load, kg	278	590	1140	1647	2170	2990	3700

Ø, mm	18	20	22	24	26	28
Weight, 100 m/kg	14,8	18,1	21,9	26,0	30,6	35,5
Breaking load, kg	4720	5690	6710	7880	9150	10500

Synthetic Fiber Ropes

Polyester ropes are very good UV – resistant and have relatively low elongation.

Main properties:

- Specific weight — 1,38 g/ cm³ (sinks)
- Melting temperature — 265 °C
- High tenacity polyester yarns
- Very good UV-resistant
- Low elongation
- Strong rope

Twisted Polyester Ropes



Ø, mm	4	6	8	10	12	14	16
Weight, 100 m/kg	1,21	2,73	4,85	7,58	10,9	14,9	19,4
Breaking load, kg	280	608	1050	1620	2300	3090	3980

Ø, mm	18	20	22	24	26	28	30
Weight, 100 m/kg	24,6	30,3	36,7	43,7	51,2	59,4	68,2
Breaking load, kg	4990	6100	7310	8610	10100	11600	13200

Braided Polyester Ropes



Ø, mm	2	3	4	5	6	8	10	12
Weight, 100 m/kg	0,24	0,45	0,9	1,3	1,7	4	5,6	10,3
Breaking load, kg	132	210	400	459	579	908	1120	2009

Synthetic Fiber Ropes

Polyethylene ropes are made from high-density polyethylene with a high UV protection.

Main properties:

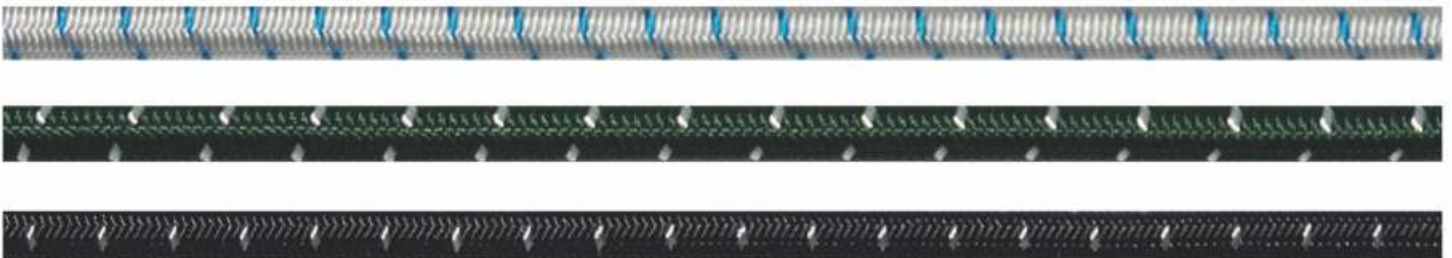
- Specific weight – 0,95 g/cm³ (floats)
- Melting temperature – 140°C
- Good UV-resistance
- Resistant to the chemical environment
- Easy to splice



Ø, mm	1	2	3	4	5	6	8
Weight, 100 m/kg	0,1	0,3	0,7	1,2	1,7	2,4	3,8
Breaking load, kg	42	109	350	550	845	1457	1800


Ø, mm	10	12	14	16	18	20
Weight, 100 m/kg	6,5	9,3	11,5	17,5	21,0	26,0
Breaking load, kg	2565	3384	3951	5850	6660	8730

Elastic cords are made from 100% high tenacity polyester, polyamide or polypropylene multifilament yarns and parallel rubber core inside. An elastic cord is a highly flexible rubber cord, which has a number of boat applications. The cover has excellent abrasion and UV resistance. The combination makes the cord compact, stable and durable.



	Ø, mm	Standard length of cords	
	From 3 mm to 12 mm	10 m, 20 m, 100 m, 250 m	

Natural Fiber Ropes



Natural fiber cords are made from materials such as:

- Cotton
- Flax
- Jute
- Sisal

Natural Fiber Ropes

Natural cotton rope is very smooth and soft. Cotton fibres are environmentally friendly and biodegradable.

Main properties:

- Sink in water
- Fire point – 210 °C
- Easily be painted

Braided Natural Cotton Ropes



	Ø, mm	Standard length of cords	
	From 1,5 mm to 28 mm	50 m, 100 m, 150 m, 200 m	

Twisted Natural Cotton Ropes



	Ø, mm	Standard length of cords	
	From 3 mm to 35 mm	50 m, 100 m, 150 m, 200 m	

Natural Fiber Ropes

Flax cord is made from 100% flax (linen) fibre. Linen fibre is environmentally friendly and biodegradable material, are naturally soft and has a satiny sheen. These cords are strong and flexible.

Main properties:

- Sink in water
- Fire point – 205°C
- Good abrasion resistance
- Resistance to sunlight
- Doesn't accumulate static electricity
- Looses its strength when wet
- Good UV-resistance

Twisted Flax Ropes



	Ø, mm	Standard length of cords	
	From 6 mm to 32 mm	50 m, 100 m, 150 m, 200 m	

Braided Flax Ropes

	Ø, mm	Standard length of cords	
	From 1,5 mm to 22 mm	50 m, 100 m, 150 m, 200 m	



Natural Fiber Ropes

Jute cord is made from 100% jute fibre. Jute cords are naturally soft and flexible. Jute cords have appealing texture and excellent resistance to environmental effects.

Main properties:

- Sink in water
- Fire point — 195 °C
- Good UV resistance
- Resistant to decay
- Well absorb moisture and dry quickly

Twisted Jute Ropes



	Ø, mm	Standard length of cords	
	From 6 mm to 32 mm	50 m, 100 m, 150 m, 200 m	

Braided Jute Ropes

	Ø, mm	Standard length of cords	
	From 1,5 mm to 22 mm	50 m, 100 m, 150 m, 200 m	



Natural Fibre Ropes

Sisal cord is made from 100% sisal. Sisal was called as “hard fiber” and is a more rigid natural fiber than hemp. Sisal fibers are environmentally friendly and biodegradable.

Main properties:

- Sink in water
- Fire point — 205 °C
- Good resistance to most chemicals



	Ø, mm	Standard length of cords	
	From 4 mm to 24 mm	50 m, 100 m, 150 m, 200 m	



Special Ropes

Braided polyester ropes with the aramid core are strong and fire resistant. Aramid fibers are up 5 times stronger than steel and feature an unsurpassed lightness, flexibility and temperature resistance.

Main properties:

- Extremely high temperature resistance
- High tenacity polyester
- Very good UV – resistant



Ø, mm	4	5	6	8	10	12	14
Weight, 100 m/kg	1,2	1,95	2,9	4,9	7	9	12,7
Breaking load, kg	580	800	1000	1800	3000	3600	5200

Braided lead ropes are produced with polypropylene, polyethylene, polyester and polyamide covers, but also can be produced with covers from mixed materials, such as polypropylene mixed with polyethylene.



Lead core weight g/m												
16 carriers	15g	20g	25g	30g	35g	50g	70g	100g	120g	200g	280g	720g
24 carriers	15g	20g	25g	30g	35g	50g	70g	100g	120g			

Special Ropes

Double braided ropes are made in various combinations from polyamide, polyester, UHMWPE, aramid, polypropylene. These special ropes are available for architectural balustrades, netting, awnings, and displays.



Knitted cord is made from 100% high tenacity polypropylene multifilament, polyester, polyamide. It is also can be made from natural fibers as cotton or linen.

Main properties:

- Good UV-resistance
- Extremely durable
- Abrasion heat
- Abrasion resistant
- Abrasion rot

	Ø, mm	Standard length of cords	
	From 2 mm to 10 mm	50 m, 100 m, 200m	



Fishing twines are made from 100 % UV- stabilized and high tenacity polyamide or polyester yarn.

Polyamide Twines. Standard length in pack: 1.7 kg.



Product Code	210 / 4	210 / 6	210 / 8	210 / 10	210 / 12	210 / 14	210 / 16	210 / 18
Breaking load, kg	21	33	42	52	61	70	80	91
Elongation at break, %	26	28	30	33	33	33	34	34

Product Code	210 / 20	210 / 24	210 / 32	210 / 48	210 / 60	210 / 64	210 / 80
Breaking load, kg	100	124	165	241	300	310	365
Elongation at break, %	34	34	35	36	36	36	36

Polyester Twines. Standard length in pack: 1.8 kg.



Product Code	250 / 6	250 / 8	250 / 10	250 / 16	250 / 20
Breaking load, kg	30	40	48	90	120
Elongation at break, %	17,5	18	18	20	21

Twines

Natural fibre twines are made from 100% sisal, cotton, jute or flax. Natural fibre twines are environmentally friendly and biodegradable material.

Standard packing on paper spools is 0,1 kg; 0,3 kg; 0,5 kg; 1 kg.



Webbings

Webbings are a strong fabric, woven flat strips of varying width and fibers often used in place of rope. Originally made of cotton or flax, most modern webbing is made from synthetic fibers such as polyamide, polypropylene multifilament or polyester. Webbing's are both light and strong, with high breaking strengths, good UV and abrasion resistance.

Webbing's natural fiber are strong fabric woven flat strip of varying width and fibers.

Originally made of 100% cotton.



	Ø, mm	Standard length of cords	
	From 5 mm to 60 mm	10 m, 25 m, 50 m, 100 m	



Splicing



Environment friendly products



PET – the PET yarn is made of recycled plastic bottles and has the same quality as polyester yarn, therefore can be used in making some of our ropes.

RECOVERED
NETS



Recovered nets - recycled fishing nets can be transformed into high-quality raw materials to make new durable ropes.



PLA- from PLA yarn we can make our products more sustainable as we can replace oil-based yarns by a yarn that is made from an organic source – corn. It also offers an end of life solution as the product can be fully composted.

If you haven't found the right product in our catalogue, contact us.
We are always ready to manufacture custom production based
on your needs and specifications.

Contact Us:

☎ +370 458 32 000

📍 K. Donelaitis st. 16, Rokiskis
Lithuania, LT - 42163

✉ sales@duguva.lt

🌐 www.duguva.lt

Duguva

