



**beزالin**



# ROPES & CORDS



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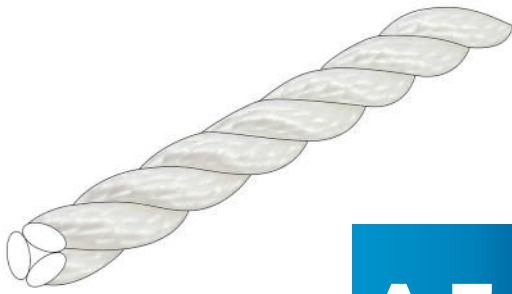
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# ROPES & CORDS CONSTRUCTIONS & FORMS

diameters range per raw material

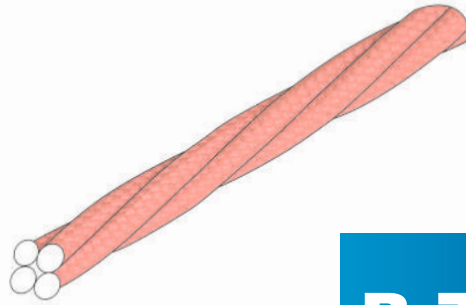


## A-Z

3 strand  
twisted rope

**PP** 2,5 - 72  
**PPF** 1,6 - 72  
**PP-HEMP** 6 - 16  
**PA** 1,6 - 72  
**PES** 1,5 - 72  
**E** 6 - 30

**B** 1,5 - 52  
**SL** 6 - 60  
**KN** 8 - 60  
**KLC** 3 - 16



## B-Z

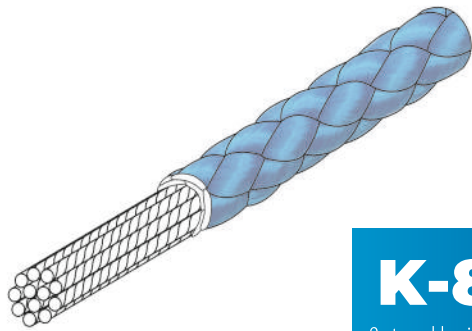
4 strand  
twisted rope

**PP** 6 - 16  
**PPF** 6 - 16  
**PP-HEMP** 6 - 16  
**PA** 6 - 16  
**PES** 6 - 16

**B** 6 - 16  
**SL** 10 - 16  
**KN** 10 - 16  
**KLC** 6 - 16



**PP** 8 - 80  
**PPF** 8 - 80  
**PA** 8 - 80  
**PES** 8 - 80

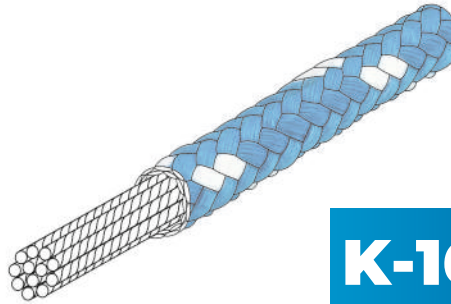


## K-8

8 strand braided  
rope with  
parallel cord

**PP** 4 - 20  
**PPF** 2 - 20  
**PA** 1,5 - 20  
**PES** 2 - 20

**EPES** 6 - 20  
**B** 2 - 20

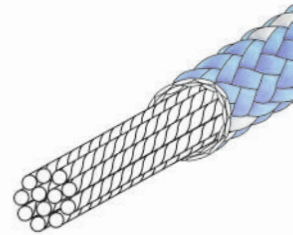


## K-16

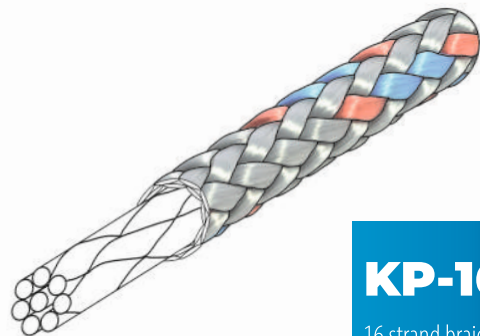
16 strand braided  
rope with  
parallel cord

**PP** 7 - 20  
**PPF** 2 - 20  
**PA** 2 - 20  
**PES** 2 - 20

**EPES** 6 - 20  
**B** 2 - 20



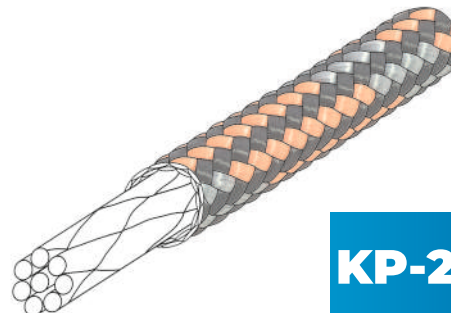
**PP** 10 - 24  
**PPF** 5 - 20  
**PA** 5 - 20  
**PES** 5 - 20



## KP-16

16 strand braided  
rope with  
braided cord

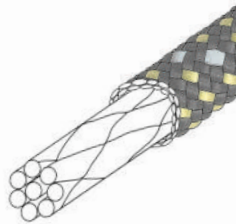
**PPF** 4 - 20  
**PA** 3 - 20  
**PES** 3 - 20  
**EPES** 6 - 20



## KP-24

24 strand braided  
rope with  
braided cord

**PPF** 5 - 20  
**PA** 5 - 20  
**PES** 5 - 20  
**EPES** 6 - 20

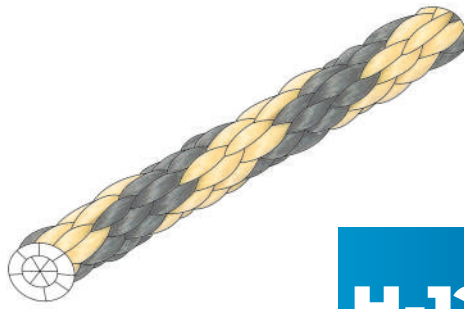


**PPF** 6 - 16  
**PA** 6 - 16  
**PES** 6 - 16



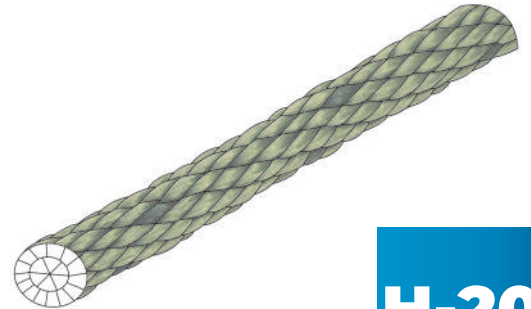
**L**

8 strand braided rope



**H-12**

12 strand spiral braided rope

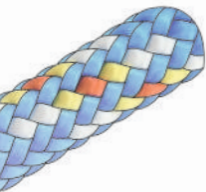


**H-20**

20 strand spiral braided rope

**PPF** 4 - 6  
**PA** 4 - 6  
**PES** 4 - 6

**PPF** 8 - 14  
**PA** 8 - 14  
**PES** 8 - 14



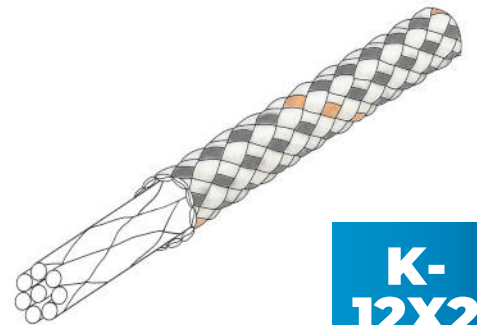
**K-24**

24 strand braided rope with parallel cord



**K-32**

32 strand braided rope with parallel cord



**K-12X2**

12x2 strand braided rope with braided cord

**EPES** 6 - 20  
**B** 8 - 20

**PPF** 6 - 16  
**PA** 6 - 16  
**PES** 6 - 16  
**EKSPANDOR** 10 - 16

**B** 10 - 16  
**EPES** 8 - 16

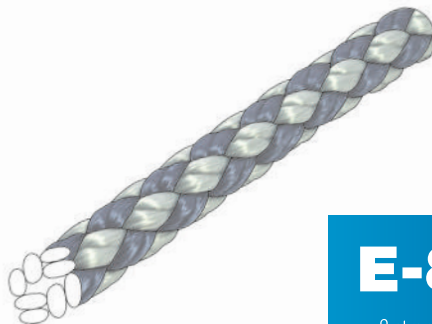
**PP** 10 - 24  
**PPF** 5 - 20  
**PA** 5 - 20  
**PES** 5 - 20

**EPES** 6 - 20  
**B** 8 - 20



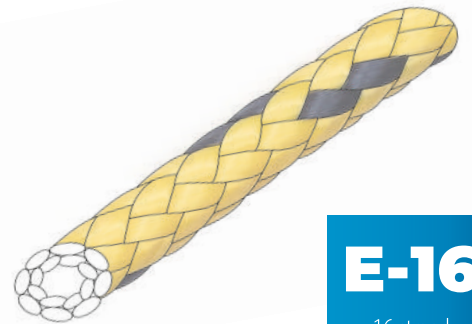
**KP-32**

32 strand braided rope with braided cord



**E-8**

8 strand braided rope without core



**E-16**

16 strand braided rope without core

**EPES** 6 - 16

**PP** 4 - 20  
**PPF** 1,5 - 20  
**PA** 1 - 20  
**PES** 1,2 - 20

**B** 1,5 - 20

**PP** 6 - 20  
**PPF** 2 - 20  
**PA** 2 - 20  
**PES** 2 - 20

**B** 2 - 20


# ROPES & CORDS

## POLIPROPYLENE SPLIT FILM

APPROXIMATE DIAMETER (mm)		BREAKING STRENGTH (daN)		WEIGHT (g/m)		WEIGHT TOLERANCE (%)
A,B*	L	A,B	L	A,B	L	A,B,L
2,5*	-	110	-	3	-	+/- 10
3*	-	175	-	4,5	-	+/- 10
3,5*	-	220	-	5,8	-	+/- 10
4	-	280	-	7,23	-	+/- 10
5	-	425	-	11,3	-	+/- 10
6	-	600	-	16,3	-	+/- 10
8	-	1 000	-	28,9	-	+/- 10
9	-	1 250	-	36,6	-	+/- 10
10	10*	1 500	1 390	45,2	45,2	+/- 8
12	12	2 120	2 120	65,1	65,1	+/- 8
14	14*	2 800	2 600	88,6	88,6	+/- 8
16	16	3 750	3 350	116	116	+/- 5
18	18*	4 500	4 320	146	146	+/- 5
20	20	5 600	5 300	181	181	+/- 5
22	22*	6 700	6 400	219	219	+/- 5
24	24	8 000	7 500	260	260	+/- 5
26	26*	9 000	8 700	306	306	+/- 5
28	28	10 600	10 000	354	354	+/- 5
30	30	11 800	11 200	407	407	+/- 5
32	32	13 200	13 200	463	463	+/- 5
36	36	17 000	16 000	586	586	+/- 5
40	40	20 000	20 000	723	723	+/- 5
44	44	25 000	23 600	875	875	+/- 5
48	48	28 000	28 000	1 040	1 040	+/- 5
52	52	33 500	33 500	1 220	1 220	+/- 5
56	56	37 500	37 500	1 420	1 420	+/- 5
60	60	42 500	42 500	1 630	1 630	+/- 5
64	64	50 000	47 500	1 850	1 850	+/- 5
72	72	60 000	60 000	2 340	2 340	+/- 5
-	80	-	75 000	-	2 890	+/- 5

\* Diameters not included in the standard; range of diameters for lines produced in B form: 6-16 mm.

APPROXIMATE DIAMETER (mm)	BREAKING STRENGTH (daN)			WEIGHT (g/m)			WEIGHT TOLERANCE (%)
	E-8	K-8	K-16	E-8	K-8	K-16	
4	250	250	-	7,5	8,5	-	+/- 10
5	270	270	-	12	10	-	+/- 10
6	400	400	-	16	15	-	+/- 10
7	-	450	-	-	20	-	+/- 10
8	670	720	-	23	28	-	+/- 10
10	1 025	1 120	-	36	42	-	+/- 10
12	1 420	1 610	1 610	50	54	58	+/- 10
14	1 940	2 110	-	63	75	-	+/- 10
16	2 380	2 510	2 510	72	110	110	+/- 10
18	2 700	2 900	-	90	120	-	+/- 10
20	3 100	3 300	-	105	135	-	+/- 10

 2,5 - 80

### CHARACTERISTICS:

- made of high quality polypropylene yarn
- UV stabilized
- resistant to chemical and organic substances
- floating
- elastic

Conform to PN-EN ISO 1346: 2012 (regarding forms A, L).

Braided forms in accordance with BEZALIN Technical & Technological Specification (WTT).

### APPLICATION:



industry



shipping



fishery



transport



building engineering



agriculture



automotive





# ROPES & CORDS

## PP MULTIFILAMENT

 1,6 - 80


### CHARACTERISTICS:

- made of high quality polypropylene multifilament yarn
- UV stabilized
- resistant to chemical and organic substances
- floating
- elastic


Conform to BEZALIN Technical & Technological Specification (WTT).

### APPLICATION:

industry 


shipping 

household 

tourist & sports equipment 

clothing & accessories 

building engineering 


automotive 

APPROXIMATE DIAMETER (mm)		BREAKING STRENGTH (daN)		WEIGHT (g/m)		WEIGHT TOLERANCE (%)
A,B*	L	A,B	L	A,B	L	A,B,L
1,6	-	43	-	1,5	-	+/- 10
2	-	62	-	1,9	-	+/- 10
3	-	95	-	4,5	-	+/- 10
4	-	210	-	8	-	+/- 10
5	-	335	-	13	-	+/- 10
6	-	440	-	17	-	+/- 10
8	8	770	770	30	30	+/- 10
10	10	1 150	1 150	45	45	+/- 10
12	12	1 660	1 660	65	65	+/- 10
14	14	2 300	2 300	90	90	+/- 10
16	16	2 900	2 900	115	115	+/- 10
18	18	3 700	3 700	148	148	+/- 10
20	20	4 513	4 513	180	180	+/- 10
22	22	5 361	5 361	220	220	+/- 10
24	24	6 336	6 336	260	260	+/- 10
26	26	7 428	7 428	305	305	+/- 10
28	28	8 646	8 646	355	355	+/- 10
30	30	9 873	9 873	405	405	+/- 10
32	32	11 209	11 209	460	460	+/- 10
36	36	14 251	14 251	585	585	+/- 10
40	40	17 545	17 545	720	720	+/- 10
44	44	21 443	21 443	880	880	+/- 10
48	48	25 342	25 342	1 040	1 040	+/- 10

\* Range of diameters for lines produced in B form: 6-16 mm



APPROXIMATE DIAMETER (mm)	BREAKING STRENGTH (daN)								WEIGHT (g/m)					WEIGHT TOLERANCE (%)	
	E-8	E-16	K-8	K-16	K-24	K-32	H-12/20	E-8	E-16	K-8	K-16	K-24	K-32	H-12/20	E, K
1,5	34	-	-	-	-	-	-	1	-	-	-	-	-	-	+/- 10
2	51	51	51	51	-	-	-	1,9	1,9	2,2	2,2	-	-	-	+/- 10
2,5	75	75	77	77	-	-	-	3	3	3,3	3,3	-	-	-	+/- 10
3	111	111	111	111	-	-	-	4,9	4,9	4,3	4,3	-	-	-	+/- 10
3,5	150	150	150	150	-	-	-	5,8	5,8	5,8	5,8	-	-	-	+/- 10
4	187	187	187	187	-	-	-	8	8	7,7	7,7	-	-	-	+/- 10
5	272	272	272	272	-	-	-	12	12	12	12	-	-	-	+/- 10
6	459	459	459	459	-	500	323	17	17	17,5	17,5	-	19,5	17,5	+/- 10
8	638	638	638	638	638	750	468	26	26	27	27	30	35	28	+/- 10
10	689	689	689	689	765	1 000	646	38	38	38	38	48	50	42	+/- 10
12	1020	1020	1190	1190	1190	1 300	850	60	60	56	56	61	67	60	+/- 10
14	1200	1200	1785	1785	-	1 800	1105	79	79	79	79	-	85	76	+/- 10
16	1600	1600	2338	2338	-	-	-	106	106	102	102	-	-	-	+/- 10
18	2000	2000	2975	2975	-	-	-	132	132	140	140	-	-	-	+/- 10
20	-	-	3485	3485	-	-	-	-	-	157	157	-	-	-	+/- 10

The tables contain test parameters.  
The full range of production possibilities is marked with the symbol 

# ROPES & CORDS

## POLY-HEMP

APPROXIMATE DIAMETER [mm]	BREAKING STRENGTH [daN]	WEIGHT [g/m]	WEIGHT TOLERANCE [%]
<b>A,B*</b>			
6	300	14	+/- 10
8	500	28	+/- 10
10	800	45,2	+/- 8
12	1400	60	+/- 8
14	1800	90	+/- 8
16	2500	116	+/- 5

\* Range of diameters for lines produced in B form: 6-16 mm

 6 - 30

### CHARACTERISTICS:

- made of polypropylene yarn imitating natural fibre
- UV stabilized
- resistant to chemical and organic substances
- floating
- extended service life compared to natural ropes

Conform to BEZALIN Technical & Technological Specification (WTT).

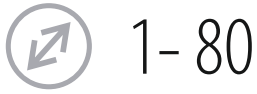
### APPLICATION:

-  industry
-  shipping & sailing
-  gardening & horticulture
-  household applications
-  decorative products
-  zoology



# ROPES & CORDS

## POLYAMIDE



### CHARACTERISTICS:

- made of high-strength yarn
- UV resistant
- abrasion resistant
- highly flexible
- thermally stabilized (5-30 mm)

Conform to PN-EN ISO 1141:2012.

### APPLICATION:

- industry
- shipping & sailing
- fishing
- transport
- tourist & sports equipment
- work at height, belay
- building engineering

APPROXIMATE DIAMETER [mm]		BREAKING STRENGTH [daN]		WEIGHT [g/m]		WEIGHT TOLERANCE [%]
A,B*	L	A,B	L	A,B	L	A,B,L
1,6*	-	50	-	1,7	-	+/- 10
1,8*	-	63	-	2,1	-	+/- 10
2*	-	75	-	2,5	-	+/- 10
2,5*	-	108	-	3,6	-	+/- 10
3*	-	165	-	5,5	-	+/- 10
3,5*	-	225	-	7,5	-	+/- 10
4	-	375	-	9,87	-	+/- 10
5	-	560	-	15,4	-	+/- 10
6	-	800	-	22,2	-	+/- 10
8	8*	1 400	1 380	39,5	39,5	+/- 10
10	10*	2 120	2 120	61,7	61,7	+/- 8
12	12	3 000	3 000	88,8	90	+/- 8
14	14*	4 000	4 105	121	125	+/- 8
16	16	5 000	5 300	158	160	+/- 5
18	18*	6 300	6 570	200	200	+/- 5
20	20	8 000	8000	247	250	+/- 5
22	22*	9 500	9 600	299	299	+/- 5
24	24	11 200	11 200	355	360	+/- 5
26	26*	12 500	13 100	417	425	+/- 5
28	28	15 000	15 000	484	490	+/- 5
30	30	17 000	17 000	555	560	+/- 5
32	32	19 000	20 000	632	640	+/- 5
36	36	23 600	25 000	800	810	+/- 5
40	40	30 000	30 000	987	1000	+/- 5
44	44	35 500	35 500	1 190	1 210	+/- 5
48	48	40 000	42 500	1 420	1 440	+/- 5
52	52	47 500	50 000	1 670	1 700	+/- 5
56	56	56 000	56 000	1 930	1 970	+/- 5
60	60	63 000	63 000	2 220	2 260	+/- 5
64	64	71 000	71 000	2 530	2 570	+/- 5
72	72	90 000	90 000	3 200	3 250	+/- 5
-	80	106 000	112 000	3 950	4 010	+/- 5

\* Diameters not included in the standard. range of diameters for lines produced in B form: 6-16 mm.

APPROXIMATE DIAMETER [mm]	BREAKING STRENGTH [daN]								WEIGHT [g/m]				WEIGHT TOLERANCE [%]		
	E-8	E-16	K-8	K-16	121-K-16	K-24	K24X2	E-8	E-16	K-8	K-16	121-K-16		K-24	K24X2
1	49	-	-	-	-	-	-	0,9	-	-	-	-	-	-	+/- 10
1,5	-	-	-	-	70	-	-	-	-	-	-	2,1	-	-	+/- 10
2	63	63	63	63	130	-	-	1,8	1,8	1,8	1,8	3,7	-	-	+/- 10
2,5	130	130	130	130	150	-	-	2,5	2,5	2,5	-	4,2	-	-	+/- 10
3	157	157	178	178	200	-	-	4,6	4,6	5,1	5,1	6,3	-	-	+/- 10
3,5	-	-	-	-	310	-	-	-	-	-	-	9	-	-	+/- 10
4	270	270	310	310	320	-	-	9	9	9	9	10	-	-	+/- 10
5	420	420	420	420	-	-	-	14	14	14	14	-	-	-	+/- 10
6	700	700	700	700	-	-	-	19	19	20	20	-	-	-	+/- 10
8	1 090	1 090	1 370	1 370	-	1 370	1 800	36	36	36	36	-	36	50	+/- 10
10	1 670	1 670	1 670	2 110	-	2 110	2 100	56	56	56	56	-	56	70	+/- 10
11	-	-	-	-	-	-	2 300	-	-	-	-	-	-	82	+/- 10
12	2 420	2 420	2 940	2 940	-	2 940	2 500	81	81	81	81	-	81	90	+/- 10
14	3 140	3 140	4 070	4 070	-	4 070	-	110	110	110	110	-	110	-	+/- 10
16	4 260	4 260	5 290	5 290	-	5 290	-	143	143	143	143	-	143	-	+/- 10
18	5 390	5 390	6 660	6 660	-	6 660	-	181	181	181	181	-	181	-	+/- 10
20	6 570	6 570	8 230	8 230	-	8 230	-	223	223	223	223	-	223	-	+/- 10
22	-	-	-	-	-	9 900	-	-	-	-	-	-	270	-	+/- 10
24	-	-	-	-	-	11 800	-	-	-	-	-	-	320	-	+/- 10




# ROPES & CORDS

## POLYESTER

APPROXIMATE DIAMETER (mm)		BREAKING STRENGTH (daN)		WEIGHT (g/m)		WEIGHT TOLERANCE (%)
A,B*	L	A,B	L	A,B	L	A,B,L
4	-	280	-	12,1	-	+/- 10
5	-	425	-	19	-	+/- 10
6	-	600	-	27,3	-	+/- 10
8	8*	1060	1060	48,5	48,5	+/- 10
10	10*	1600	1600	75,8	75,8	+/- 8
12	12	2240	2300	109	109	+/- 8
14	14*	3000	3150	149	151	+/- 8
16	16	4000	4000	194	194	+/- 5
18	18*	5000	5150	246	249	+/- 5
20	20	6000	6300	303	304	+/- 5
22	22*	7100	7650	367	370	+/- 5
24	24	8500	9000	437	437	+/- 5
26	26*	10000	10400	512	516	+/- 5
28	28	11800	11800	594	595	+/- 5
30	30	13200	13200	682	683	+/- 5
32	32	15000	15000	776	777	+/- 5
36	36	19000	19000	982	984	+/- 5
40	40	23600	23600	1210	1210	+/- 5
44	44	28000	28000	1470	1470	+/- 5
48	48	33500	33500	1750	1750	+/- 5
52	52	37500	40000	2050	2050	+/- 5
56	56	42500	45000	2380	2380	+/- 5
60	60	50000	50000	2730	2730	+/- 5
64	64	56000	56000	3100	3110	+/- 5
72	72	71000	71000	3930	3930	+/- 5
-	80	-	90000	-	4860	+/- 5

\* Diameters not included in the standard. Range of diameters for lines produced in B form: 6-16 mm.

 1,2 - 80

### CHARACTERISTICS:

- made of high strength yarn
- UV resistant
- abrasion resistant
- high tensile strength

Confirm to PN-EN ISO 1140:2012.

### APPLICATION:



industry



shipping & sailing



fishing



household applications



tourist & sports equipment




building engineering



agriculture

APPROXIMATE DIAMETER (mm)	BREAKING STRENGTH (daN)								WEIGHT (g/m)								WEIGHT TOLERANCE (%)		
	E-8	E-16	K-8	K-16	KP-16	K-24	KP-24	K-32	KP-24X2	E-8	E-16	K-8	K-16	KP-16	K-24	KP-24		K-32	KP-24X2
1,2	25	-	30	-	-	-	-	-	-	1,1	-	1,2	-	-	-	-	-	-	+/- 10
2	75	-	75	75	-	-	-	-	-	2,1	-	2	2	-	-	-	-	-	+/- 10
2,5	105	105	105	105	-	-	-	-	-	4,8	4,8	4,8	4,8	-	-	-	-	-	+/- 10
3	150	150	150	150	150	-	-	-	-	5,5	5,5	5,5	5,2	5,5	-	-	-	-	+/- 10
4	260	260	260	260	260	-	-	-	-	11	11	11	11	11	-	-	-	-	+/- 10
5	360	360	360	360	360	-	-	-	-	16	16	16	16	17	-	-	-	-	+/- 10
6	550	550	550	550	-	550	600	700	-	24,4	24,4	24,4	24,4	-	28	29	29	-	+/- 10
7	600	600	600	600	-	600	-	-	1000	29	29	29	29	-	36	-	-	40	+/- 10
8	1030	1030	1120	1120	1120	1120	1250	1120	-	43,5	43,5	47	43,5	43,5	45	55	49	-	+/- 10
10	1630	1630	1770	1770	-	1770	1770	-	-	68	68	68	68	-	68	73	-	-	+/- 10
11	-	-	-	-	-	-	-	-	2100	-	-	-	-	-	-	-	-	95	+/- 10
12	2290	2290	2430	2430	-	2430	1900	1900	-	98	98	98	98	-	98	98	100	-	+/- 10
14	3000	3000	3280	3280	-	3280	3280	-	-	133	133	133	140	-	133	133	-	-	+/- 10
16	-	-	4380	4380	-	4380	4380	-	-	-	-	174	174	-	174	174	-	-	+/- 10
18	-	-	5500	5500	-	5500	-	-	-	-	-	221	221	221	-	-	-	-	+/- 10
20	-	-	6900	6900	-	6900	-	-	-	-	-	272	272	272	280	-	-	-	+/- 10

The tables contain test parameters.

The full range of production possibilities is marked with the symbol 



# ROPES & CORDS

## SPUN POLYESTER



6 - 30

### CHARACTERISTICS:

- made of spun polyester yarn
- UV resistant
- abrasion resistant
- high tensile strength
- soft, with good grip

Conform to BEZALIN Technical & Technological Specification (WTT).

### APPLICATION:

- shipping & sailing 
- household applications 
- tourist & sport equipment 
- decorative products 

APPROXIMATE DIAMETER (mm)	BREAKING STRENGTH (daN)			WEIGHT (g/m)			WEIGHT TOLERANCE (%)
	K-8/K-16/ KP-16	K-12X2/ KP-12X2	K-24/ KP-24	K-8/K-16/ KP-16	K-12X2/ KP-12X2	K-24/ KP-24	
6	650	650	650	28	21	21	+/- 10
8	850	850	850	39	32	35	+/- 10
10	1 000	1 050	1 050	54	45	44	+/- 10
12	1 360	1 400	1 400	78	78	65	+/- 10
14	1 500	1 550	1 550	100	100	100	+/- 10
16	1 700	1 750	1 750	120	130	130	+/- 10
18	2 100	2 100	2 100	160	160	160	+/- 10
20	2 400	2 400	2 400	200	200	200	+/- 10

APPROXIMATE DIAMETER (mm)	BREAKING STRENGTH (daN)	WEIGHT (g/m)	APPLICATION
<b>A</b>			
14	1000	135	lina dekoracyjna






# ROPES & CORDS

## HEMP

APPROXIMATE DIAMETER [mm]		BREAKING STRENGTH [daN]		WEIGHT [g/m]		WEIGHT TOLERANCE [%]
A	B	A	B	A	B	A,B
3	-	66	-	6,3	-	+/- 10
3,5	-	90	-	8,6	-	+/- 10
4	-	124	-	11,5	-	+/- 10
5	-	172	-	16	-	+/- 10
6	-	216	-	23	-	+/- 10
8	8	250	250	45	45	+/- 10
10	10	384	384	67	67	+/- 10
12	12	450	450	91	91	+/- 10
14	14	563	563	124	124	+/- 10
16	16	784	784	163	163	+/- 10
18	-	898	-	206	-	+/- 10
20	-	1069	-	255	-	+/- 10
22	-	1365	-	308	-	+/- 10
24	-	1574	-	365	-	+/- 10
26	-	1777	-	430	-	+/- 10
28	-	2015	-	500	-	+/- 10
30	-	2258	-	570	-	+/- 10
32	-	2864	-	650	-	+/- 10
36	-	3539	-	826	-	+/- 10
40	-	4204	-	1000	-	+/- 10
44	-	5131	-	1230	-	+/- 10
48	-	6089	-	1462	-	+/- 10
52	-	6997	-	1700	-	+/- 10
56	-	7788	-	1900	-	+/- 10

 3 - 60

### CHARACTERISTICS:

- made of high quality natural yarn
- resistant to weather conditions
- abrasion resistant
- not dyed
- fully ecological

Conform to BEZALIN Technical & Technological Specification (WTT).

### APPLICATION:



industry



sailing



decorative products



building engineering



forestry



agriculture



ECO products



# ROPES & CORDS

## SISAL



6 - 60

### CHARACTERISTICS:


- made of high quality natural yarn (agave fiber)
- resistant to weather conditions
- abrasion resistant
- low stretch
- not dyed
- fully ecological


Conform to BEZALIN Technical & Technological Specification (WTT).

### APPLICATION:

clothing & accessories 

decorative products 

zoology 

building engineering 

agriculture 

ECO products 

APPROXIMATE DIAMETER [mm]		BREAKING STRENGTH [daN]		WEIGHT [g/m]	WEIGHT TOLERANCE [%]
A	B	A	B	A,B	A, B
6	-	219	-	27	+/- 10
8	-	383	-	40	+/- 10
10	10	589	550	60	+/- 10
12	12	838	754	85	+/- 10
14	14	1131	1017	120	+/- 10
16	16	1462	1315	150	+/- 10
18	-	1836	-	185	+/- 10
20	-	2253	-	230	+/- 10
22	-	2712	-	280	+/- 10
24	-	3213	-	340	+/- 10
26	-	3757	-	400	+/- 10
28	-	4335	-	450	+/- 10
30	-	4708	-	530	+/- 10
32	-	5330	-	595	+/- 10
36	-	6359	-	756	+/- 10
40	-	7433	-	930	+/- 10
44	-	8891	-	1140	+/- 10
48	-	10567	-	1340	+/- 10
52	-	12316	-	1580	+/- 10
56	-	14211	-	1820	+/- 10
60	-	16252	-	2100	+/- 10




# ROPES & CORDS

## COTTON

APPROXIMATE DIAMETER [mm]	BREAKING STRENGTH [daN]	WEIGHT [g/m]	WEIGHT TOLERANCE [%]
<b>A,B*</b>			
1,5	10	1,3	+/- 10
2	20	2,4	+/- 10
2,5	30	4,5	+/- 10
3	38	5,5	+/- 10
3,5	67	8,8	+/- 10
4	84	11	+/- 10
5	133	18	+/- 10
6	195	25	+/- 10
8	328	45	+/- 10
10	499	70	+/- 10
12	741	105	+/- 10
14	800	120	+/- 10
16	1150	165	+/- 10
18	1250	190	+/- 10
20	1400	230	+/- 10
22	2423	386	+/- 10
24	2874	455	+/- 10
26	3379	535	+/- 10
28	3632	575	+/- 10
30	4133	656	+/- 10
32	4845	768	+/- 10
36	6128	970	+/- 10
40	7581	1200	+/- 10
44	9168	1452	+/- 10
48	10925	1730	+/- 10

\* Range of diameters for lines produced in B form: 6-16 mm.

APPROXIMATE DIAMETER [mm]	BREAKING STRENGTH [daN]				WEIGHT [g/m]				WEIGHT TOLERANCE [%]
	E-8	E-16	K-16	K-24	E-8	E-16	K-16	K-24	
1,5	10	-	-	-	1,1	-	-	-	+/- 10
2	-	25	25	-	-	3,5	3,5	-	+/- 10
2,5	-	27	27	-	-	4,5	4,5	-	+/- 10
3	-	30	30	-	-	5,6	5,6	-	+/- 10
4	-	70	70	-	-	9	9	-	+/- 10
5	-	80	80	-	-	12,5	12,5	-	+/- 10
6	-	110	110	-	-	20	20	-	+/- 10
8	-	200	220	190	-	35	40	45	+/- 10
10	-	280	300	250	-	44	50	54	+/- 10
12	-	350	370	350	-	60	73	65	+/- 10
14	-	480	520	-	-	85	90	-	+/- 10
16	-	600	650	-	-	110	120	-	+/- 10
18	-	700	750	-	-	135	145	-	+/- 10
20	-	800	900	-	-	160	170	-	+/- 10

 1,5 - 52

### CHARACTERISTICS:

- made of high quality natural yarn
- resistant to weather conditions
- with varying degrees of softness
- not dyed
- fully ecological

Conform to BEZALIN Technical & Technological Specification (WTT).


### APPLICATION:

-  industry
-  household
-  clothing & accessories
-  decorative products
-  building engineering
-  candle making
-  food industry



# ROPES & CORDS

## COTTON-POLYPROPYLENE

 2 - 20

### CHARACTERISTICS:

- cotton mantel, fully natural and not dyed
- polypropylene multifilament yarn core
- resistant to weather conditions
- not dyed
- combination of natural finish with the strength of a synthetic rope

Conform to BEZALIN Technical & Technological Specification (WTT).

### APPLICATION:

industry 

sailing 

household 

clothing & accessories 

PRZYBLIŻONA ŚREDNICA [mm]	SIŁA ZRYWAJĄCA [daN]	MASA [g/m]	TOLERANCJA MASY [%]
<b>K-16</b>			
2	34	3,6	+/- 10
2,5	42	4,2	+/- 10
3	60	5,2	+/- 10
3,5	65	7	+/- 10
4	110	10	+/- 10
5	220	16	+/- 10
6	300	24	+/- 10
8	450	35	+/- 10
10	600	35	+/- 10
12	800	75	+/- 10
14	900	80	+/- 10
16	1300	100	+/- 10
18	1500	120	+/- 10
20	1750	155	+/- 10




# ROPES & CORDS

## ELASTIC CORDS

APPROXIMATE DIAMETER (mm)	WEIGHT (g/m)	WEIGHT TOLERANCE (%)	RAW MATERIAL
<b>KNITTED SHEATH</b>			
4	13,6	10%	POLYPROPYLENE MULTIFILAMENT
5	15	10%	POLYPROPYLENE MULTIFILAMENT
6	25	10%	POLYPROPYLENE MULTIFILAMENT
6	26	10%	POLYESTER
8	40,4	10%	POLYPROPYLENE MULTIFILAMENT
8	40	10%	POLYESTER
9	48	10%	POLYESTER
10	46	10%	POLYPROPYLENE MULTIFILAMENT

APPROXIMATE DIAMETER (mm)	WEIGHT (g/m)	WEIGHT TOLERANCE (%)	RAW MATERIAL
<b>OPLOT 32-ŻYŁOWY</b>			
8	55	10%	POLYPROPYLENE MULTIFILAMENT
8	57	10%	POLYESTER
10	82	10%	POLYPROPYLENE MULTIFILAMENT
10	87	10%	POLYESTER
12	108	10%	POLYPROPYLENE MULTIFILAMENT
12	118	10%	POLYESTER

 4 - 12

### CHARACTERISTICS:

- sheath made of polypropylene multifilament or polyester yarn
- elastic rubber threads core
- resistant to wear
- highly elastic and stretchable up to over 100% of its length
- 50 mtr reels

Conform to BEZALIN Technical & Technological Specification (WTT).

### APPLICATION:



industry



sailing



transport



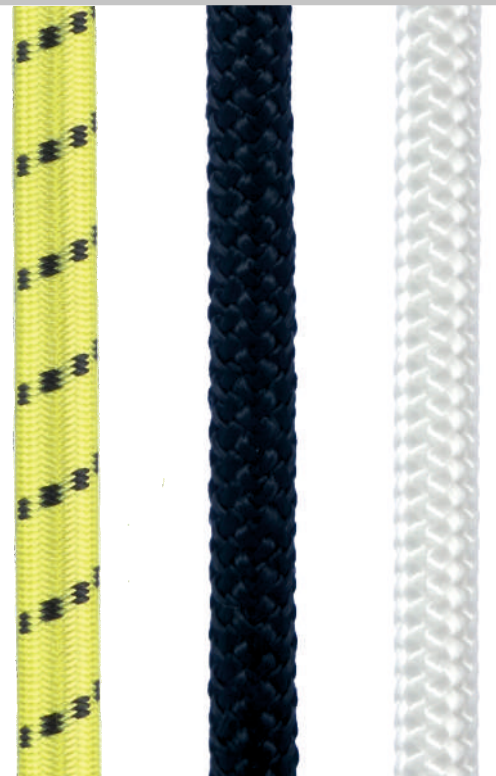
tourist & sports equipment



advertisement banners



automotive





# ROPES & CORDS

## HIGH STRENGTH ROPES

### POLYESTER ROPES WITH HARD MANTEL



APPROXIMATE DIAMETER [mm]	BREAKING STRENGTH [daN]	WEIGHT [g/m]	WEIGHT TOLERANCE [%]
	<b>K-16/H, KP-16/H</b>	<b>K-16/H, KP-16/H</b>	
2	75	2,5	+/- 10
2,5	105	5	+/- 10
3	150	6,1	+/- 10
3,5	200	9	+/- 10
4	260	11	+/- 10
4,5	280	15	+/- 10
5	360	17,5	+/- 10
6	550	27	+/- 10

### POLYESTER ROPES WITH DYNEEMA CORE



APPROXIMATE DIAMETER [mm]	BREAKING STRENGTH [daN]		WEIGHT [g/m]		WEIGHT TOLERANCE [%]
	<b>KP-16</b>	<b>KP-16/H</b>	<b>KP-16</b>	<b>KP-16/H</b>	
4	500	500	13	14,5	+/- 10
5	700	700	16,5	16,5	+/- 10
6	900	900	27	27	+/- 10

### POLYESTER ROPES WITH KEVLAR CORE



APPROXIMATE DIAMETER [mm]	BREAKING STRENGTH [daN]		WEIGHT [g/m]		WEIGHT TOLERANCE [%]
	<b>K-16</b>	<b>KP-32*</b>	<b>K-16</b>	<b>KP-32*</b>	
2	140	-	3,5	-	+/- 10
3	250	-	6,1	-	+/- 10
4	450	-	11,2	-	+/- 10
5	650	750	16	21	+/- 10
6	850	950	21,5	28	+/- 10
8	1250	-	41,5	-	+/- 10

\* KP-32 type braided ropes are made to include additional spun polyester interjacent mantle.

### 100% KEVLAR ROPES



APPROXIMATE DIAMETER [mm]	BREAKING STRENGTH [daN]				WEIGHT [g/m]				WEIGHT TOLERANCE [%]
	<b>B-Z</b>	<b>K-8</b>	<b>KP-16</b>	<b>E-16</b>	<b>B-Z</b>	<b>K-8</b>	<b>KP-16</b>	<b>E-16</b>	
1,5	130	200	-	-	1,4	1,8	-	-	+/- 10
5	-	-	1750	-	-	-	17	-	+/- 10
6	-	-	1800	900	-	-	22	15,5	+/- 10
10	-	-	2500	-	-	-	68	-	+/- 10

### COATED ROPES



APPROXIMATE DIAMETER [mm]	CORE	BREAKING STRENGTH [daN]	WEIGHT [g/m]	WEIGHT TOLERANCE [%]
	<b>K-16/KP-16</b>			
2	TWISTED	88	2,2	+/- 10
2,5	TWISTED	118	4,4	+/- 10
2,5	BRAIDED	160	5,2	+/- 10
4	TWISTED	300	10,5	+/- 10

### GEO ROPES



APPROXIMATE DIAMETER [mm]	CORE	BREAKING STRENGTH [daN]				WEIGHT [g/m]				WEIGHT TOLERANCE [%]
		<b>K-8</b>	<b>KP-8</b>	<b>K-16</b>	<b>KP-16</b>	<b>K-8</b>	<b>KP-8</b>	<b>K-16</b>	<b>KP-16</b>	
2,5	KEVLAR	-	-	-	160	-	-	-	3,4	+/- 10
4	KEVLAR	-	-	-	470	-	-	-	13	+/- 10
5	POLYESTER	350	-	-	-	18	-	-	-	+/- 10
5,5	KEVLAR	-	500	-	700	21	-	-	23	+/- 10
5,5	POLYESTER	400	-	-	-	19	-	-	-	+/- 10
7,5	KEVLAR	-	-	-	1000	-	-	-	40	+/- 10
9	KEVLAR	-	-	-	1450	-	-	-	60	+/- 10
11	KEVLAR	-	-	-	2000	-	-	-	84	+/- 10

## CUSTOMIZING

**PACKAGING:** coils, reels, hanks, cardboard packaging

**STANDARD LENGTHS:** 100 / 200 / 220 / 500 m  
(raw material and diameter dependent)

## SERVICES

**MANUAL TWISTED ROPES SPLICING (A-Z form)**

**MANUAL PLAITED ROPES SPLICING (L form)**

**MANUAL KABELARING ROPE WHIPPING**

**BRAIDED ROPES SEWING**

**BRAIDING SHEATH AROUND STEEL ROPES**

**BRAIDING SHEATH AROUND CABLES**

**YARN TWISTING**

**RE-WINDING**

**HOT CUTTING**