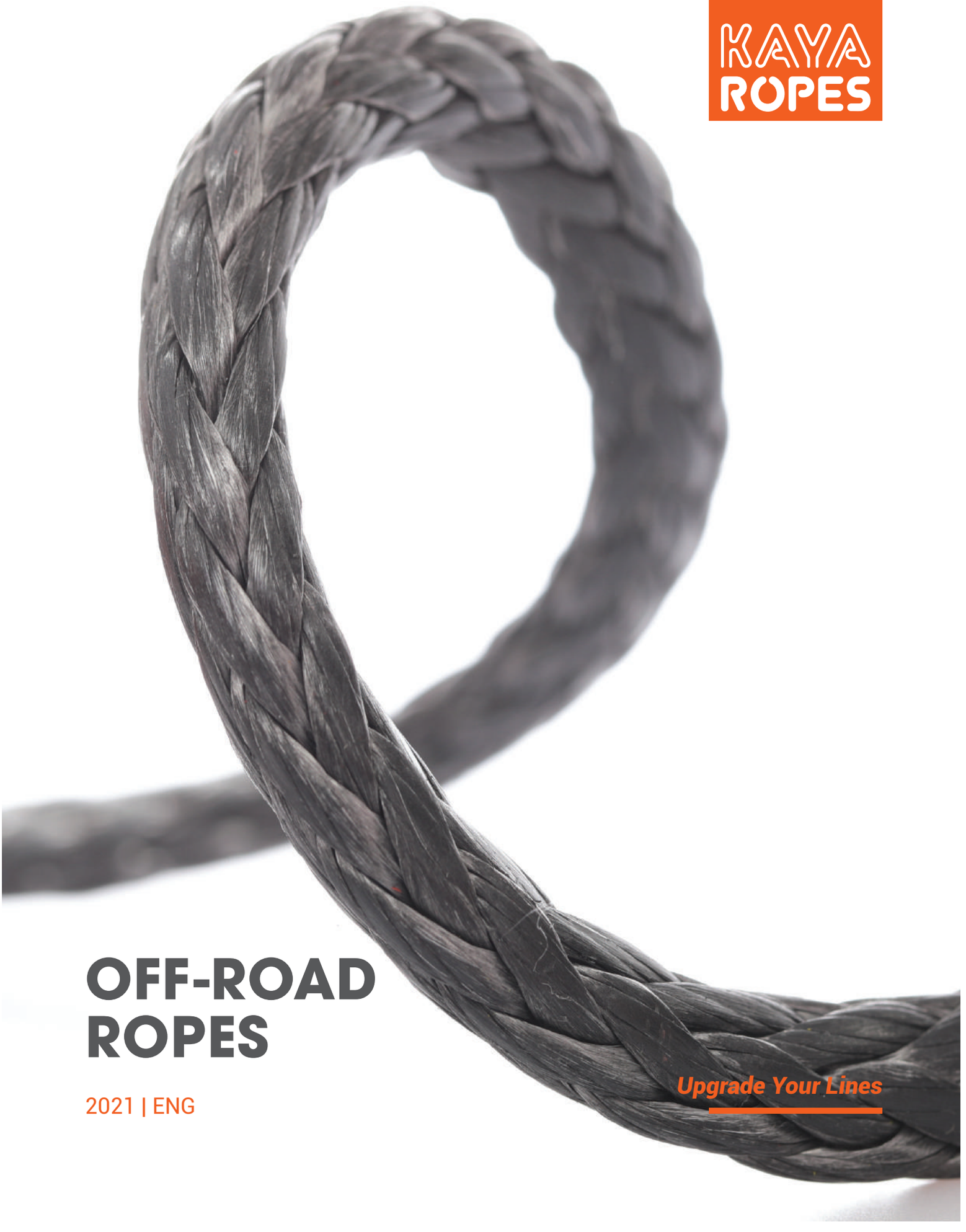
KAYA ROPES



OFF-ROAD ROPES

2021 | ENG

Upgrade Your Lines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KAYA COMPANIES
www.kayacompanies.com

Kaya Companies;
A leader in its field today, Kaya Group began business in the 1980's as Kaya Construction. Kaya Group is now preparing to celebrate its 40th year of operation. Kaya Group concentrates its knowledge and experience in four main areas of activity; the production of technical ropes, industrial work safety and work at height, health and safety at work training and consulting services. Since being fully aware of the dimension of social responsibility attached to the sector, the company obtains national and international certificates for all products that are developed and manufactured.
By providing education and consultation services concerning the correct use of its products, the Kaya Group has gained the knowledge, experience and level of competence that have given the company the confidence and resources to be able to make new advances from a sound base. With its 40- year experience, the Kaya Group is the largest organization in the sector. In 2010, with new products, services and investments, the company is firmly on the path towards becoming an important brand in the international market.

Our Vision;
To make Kaya the undisputed world's strongest, most prestigious and trusted brand in its sector.

Mission Statement;
Our mission is to conduct research and development based on accurate analysis of needs in the sector and thereby develop new products; to employ modern machinery and a competent workforce in the manufacture of world-class, high quality goods; to provide training and consulting services to create knowledgeable workers and managers and help establish a culture of work safety in Turkey; and to provide complete solutions Via our integrated services.

Company Philosophy;
Based on the value we place on human life, our goal is to design products that will safeguard human life on the job, to manufacture such products and to raise awareness about work safety by training workers and managers and providing consultation services in this regard.

KAYA ROPES KAYA TRAINING KAYA SAFETY KAYA CONSTRUCTION KAYA LIFTING KAYA DEFENCE
KAYA ADVENTURE KAYA SPORT KAYA CONSULTING KAYA RESCUE KAYA ARCHITECTURE KAYA NATURAL

DYNE K® SBF WINCHLINE

APPLICATIONS

Winch Line

BENEFITS / FEATURES

Superior Bending Fatigue (SBF)
Excellent Breaking Load (SK99)
Buoyant
Durable
Very Low Stretch
Lightweight
Easy to Splice
Does not Kink

SPECIFICATIONS

Material	:	Coated: Dyneema® SK 78/99
Specific Gravity	:	0,97 kg/dm³
Construction	:	12 Strand Braided
UV Resistance	:	Excellent
Chemical Resistance	:	Excellent
Melting Point	:	147°C
Critical Temperature	:	65°C
Working Stretch	:	<1,5%
Fiber Water Absorption	:	None
Wet Abrasion	:	Excellent
Dry Abrasion	:	Excellent
Standard	:	ISO 10325
Length	:	15m, 23m, 30m, 38m or 45m

Other Colours & Larger Diameters Upon Request

DIA (mm)	Weight (kg/ 100m)	B.Load (kgf) SK78	B.Load (kgf) SK99	DIA (inch)	Weight (lbs/ 100ft)	B.Load (lbs) SK78	B.Load (lbs) SK99
6	2,30	3.750	4.425	1/4"	1,55	8.250	9.735
8	4,00	6.600	7.788	5/16"	2,69	14.520	17.134
10	6,10	10.400	12.272	3/8"	4,10	22.880	26.998
12	8,70	15.000	17.700	1/2"	5,85	33.000	38.940
14	11,70	20.400	24.072	9/16"	7,86	44.880	52.958
16	15,10	26.520	31.294	5/8"	10,15	58.344	68.847

*Unspliced Break Load (All Tests are in Accordance with ISO 2307)

PU COATING HEAT TREATMENT WITH Dyneema®

FORCE K® SBF WINCHLINE

APPLICATIONS

Winch Line

BENEFITS / FEATURES

Superior Bending Fatigue (SBF)
Buoyant
Durable
Very Low Stretch
Lightweight
Easy to Splice
Does not Kink

SPECIFICATIONS

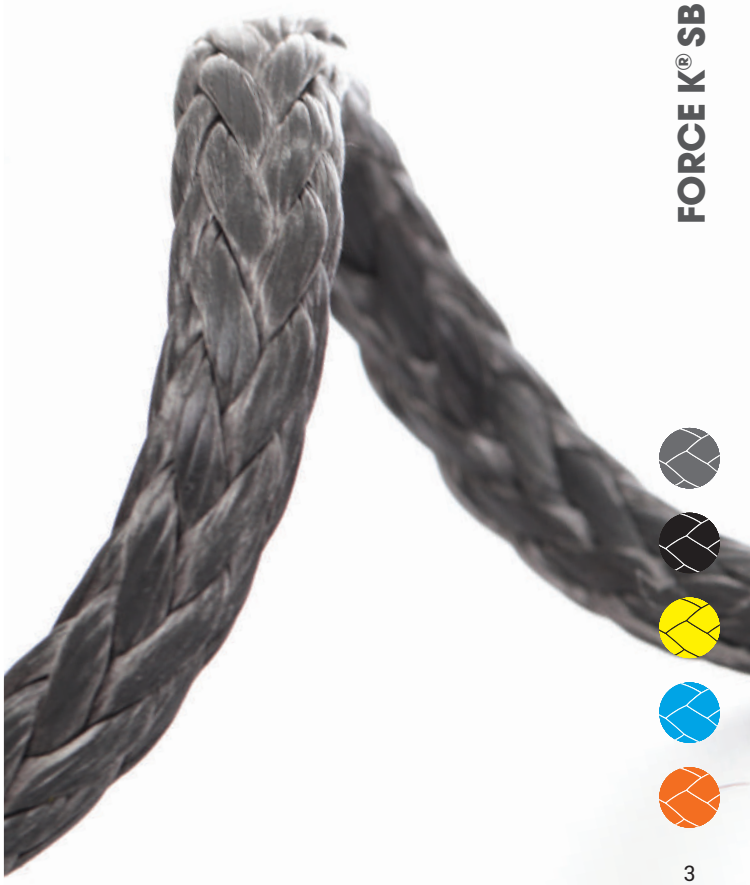
Material	:	Coated UHMWPE Fiber
Specific Gravity	:	0,97 kg/dm^3
Construction	:	12 Strand Braided
UV Resistance	:	Excellent
Chemical Resistance	:	Excellent
Melting Point	:	147°C
Critical Temperature	:	65°C
Working Stretch	:	<1,5%
Fiber Water Absorption	:	None
Wet Abrasion	:	Excellent
Dry Abrasion	:	Excellent
Standard	:	-
Length	:	15m, 23m, 30m, 38m or 45m

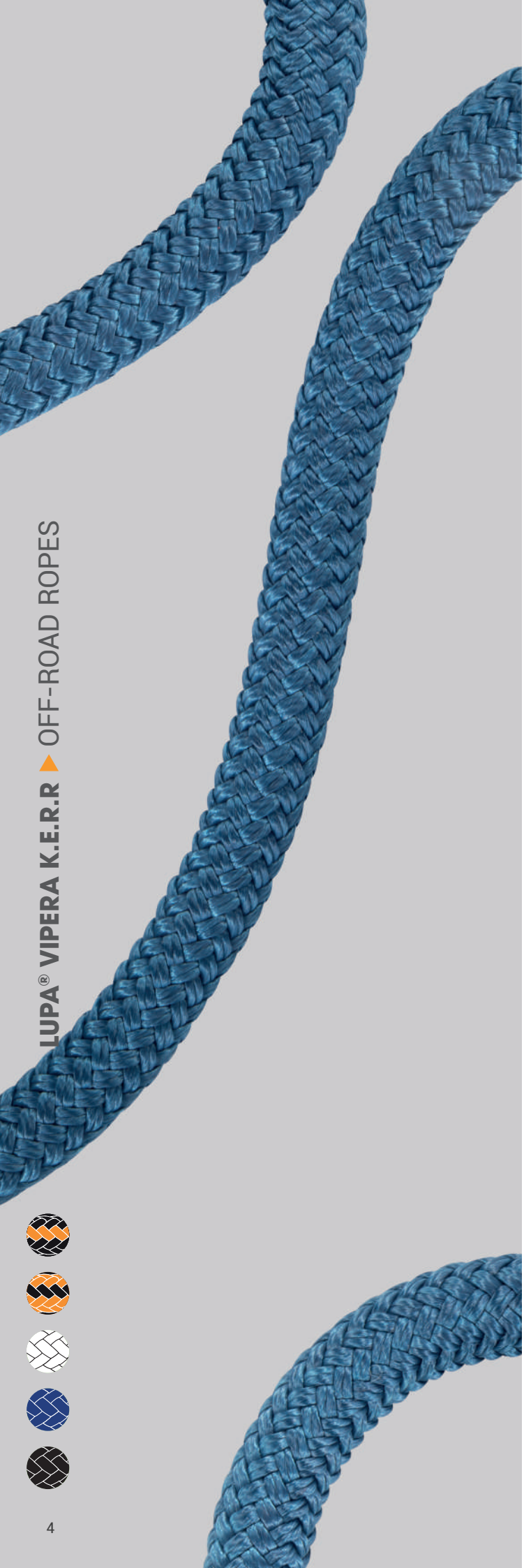
Other Colours & Larger Diameters Upon Request

DIA (mm)	Weight (kg/ 100m)	Min. B.Load (kgf) Unspliced	Min. B.Load (kgf) Spliced	DIA (inch)	Weight (lbs/ 100ft)	Min. B.Load (lbs) Unspliced	Min. B.Load (lbs) Spliced
6	2,30	3.563	3.192	1/4"	1,55	7.838	7.022
8	4,00	6.270	5.681	5/16"	2,69	13.794	12.498
10	6,10	9.880	8.911	3/8"	4,10	21.736	19.604
12	8,70	14.250	12.787	1/2"	5,85	31.350	28.131
14	11,70	19.380	17.442	9/16"	7,86	42.636	38.372
16	15,10	25.194	22.515	5/8"	10,15	55.427	49.533

*Unspliced Break Load (All Tests are in Accordance with ISO 2307)

PU COATİNG | HEAT TREATMENT





LUPA® VIPERA K.E.R.R ▲ OFF-ROAD ROPES

LUPA® VIPERA K.E.R.R

APPLICATIONS

Kinetic Energy Recovery Rope (KERR)

BENEFITS / FEATURES

Does not Harden
Does not Kink
Soft Hand
Durable
Flexible Cover
High Breaking Load
Excellent Shock Absorption

GUIDELINES & RECOMMENDATIONS

12 mm Ropes for Light Weight Vehicles, Subaru (All Wheel Drive)
18 mm Ropes for Land Rover (Freelander), Rav4, Lower Weight Pick Up
24 mm Ropes for Jeep (All Models), Land Rover Defender - Discovery - Range Rover, Toyota, Hummer H1-H2-H3, Sportsmobile, Heavy Expedition Vehicles
30 mm Ropes for Mrap (Military), Heavy Motorhomes, Buses, Coaches
36 mm Ropes for Full Size Semi Tracks

SPECIFICATIONS

Material	:	100% HT Polyamide Fiber
Type	:	-
Specific Gravity	:	1,14 kg/dm^3
Construction	:	Cover: 16-20-24 Plaited Core: 16 Plaited
UV Resistance	:	Very Good
Chemical Resistance	:	Good
Melting Point	:	218°C
Critical Temperature	:	130°C
Elongation at Break	:	Approx. %30
Fiber Water Absorption	:	Approx. %3-4
Wet Abrasion	:	Sufficient
Dry Abrasion	:	Good
Standard	:	-
Length	:	5 m, 6 m or 9 m

Other Colours on Request

DIA (mm)	Weight (kg/100m)	Min. B.Load (kgf)	DIA (inch)	Weight (lbs/100ft)	Min. B.Load (lbs)
12	9,20	3.190	1/2"	6,18	7.018
18	20,40	7.120	3/4"	13,71	15.664
24	36,65	12.640	1"	24,63	27.808
30	55,60	19.700	1-1/4"	37,36	43.340
36	81,00	28.250	1-1/2"	54,43	62.150

*Unspliced Break Load (All Tests are in Accordance with ISO 2307)

LUPA® SQUARE K.E.R.R

APPLICATIONS

Kinetic Energy Recovery Rope (KERR)

BENEFITS / FEATURES

Does not Harden
Does not Kink
Soft Hand
Durable
High Breaking Load
Excellent Shock Absorption
Easy to Splice

GUIDELINES & RECOMMENDATIONS

12 mm Ropes for Light Weight Vehicles, Subaru (All Wheel Drive)
18 mm Ropes for Land Rover (Freelander), Rav4, Lower Weight Pick Up
24 mm Ropes for Jeep (All Models), Land Rover Defender - Discovery - Range Rover, Toyota, Hummer H1-H2-H3, Sportsmobile, Heavy Expedition Vehicles
30 mm Ropes for Mrap (Military), Heavy Motorhomes, Buses, Coaches
36 mm Ropes for Full Size Semi Tracks

SPECIFICATIONS

Material	:	100% HT Polyamide Fiber
Type	:	L
Specific Gravity	:	1,14 kg/dm^3
Construction	:	8 Strand Plaited (4x2)
UV Resistance	:	Very Good
Chemical Resistance	:	Good
Melting Point	:	218°C
Critical Temperature	:	130°C
Elongation at Break	:	Approx. %30-35
Fiber Water Absorption	:	Approx. %3-4
Wet Abrasion	:	Sufficient
Dry Abrasion	:	Good
Standard	:	EN ISO 1140
Length	:	5 m, 6 m or 9 m

Other Colours on Request

DIA (mm)	Weight (kg/100m)	Min. B.Load (kgf)	DIA (inch)	Weight (lbs/100ft)	Min. B.Load (lbs)
12	9,00	3.060	1/2"	6,05	6.732
18	20,50	6.875	3/4"	13,78	15.125
24	36,00	12.000	1"	24,19	26.400
30	56,00	19.000	1-1/4"	37,63	41.800
36	81,00	27.500	1-1/2"	54,43	60.500

*Unspliced Break Load (All tests are in Accordance with ISO 2307)

LUPA® ROUND K.E.R.R

APPLICATIONS

Kinetic Energy Recovery Rope (KERR)

BENEFITS / FEATURES

Does not Kink
Soft Hand
Durable
High Breaking Load
Excellent Shock Absorption

GUIDELINES & RECOMMENDATIONS

18 mm Ropes for Land Rover (Freelander), Rav4, Lower Weight Pick Up
24 mm Ropes for Jeep (All Models), Land Rover Defender - Discovery - Range Rover, Toyota, Hummer H1-H2-H3, Sportsmobile, Heavy Expedition Vehicles
30 mm Ropes for Mrap (Military), Heavy Motorhomes, Buses, Coaches
36 mm Ropes for Full Size Semi Tracks

SPECIFICATIONS

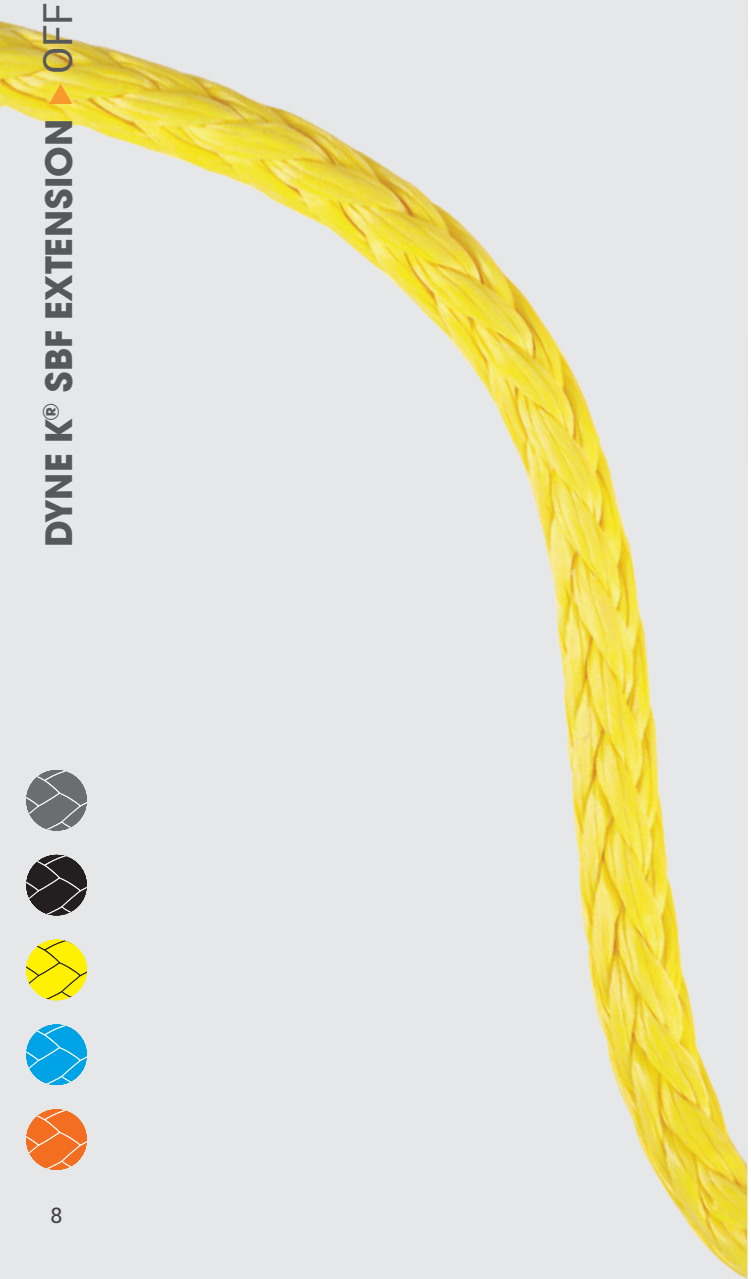
Material	:	100% HT Polyamide Fiber
Type	:	T
Specific Gravity	:	1,14 kg/dm^3
Construction	:	12 Strand Plaited
UV Resistance	:	Very Good
Chemical Resistance	:	Good
Melting Point	:	218°C
Critical Temperature	:	130°C
Elongation At Break	:	Approx.%30-35
Fiber Water Absorption	:	Approx. %3-4
Wet Abrasion	:	Sufficient
Dry Abrasion	:	Good
Standard	:	EN ISO 1140
Length	:	5m, 6m, 9m, 12m, 14m, 16m or 20m

Other Colours on Request

DIA (mm)	Weight (kg/100m)	Min. B.Load (kgf)	DIA (inch)	Weight (lbs/100ft)	Min. B.Load (lbs)
18	23,00	8.000	3/4"	15,46	17.600
24	36,00	12.030	1"	24,19	26.466
28	49,00	17.000	1-1/8"	32,93	37.400
30	56,00	19.000	1-1/4"	37,63	41.800
32	64,00	21.125	1-5/16"	43,01	46.475
36	81,00	27.500	1-1/2"	54,43	60.500

*Unspliced Break Load (All tests are in Accordance with ISO 2307)


TOSFED TRIAL KUPASI
IRON TEAM
IRON TEAM
KAYAROPES



DYNE K® SBF EXTENSION

APPLICATIONS

Winch Line

BENEFITS / FEATURES

Superior Bending Fatigue (SBF)
Excellent Breaking Load (SK99)
Buoyant
Durable
Very Low Stretch
Lightweight
Easy to Splice
Does not Kink

SPECIFICATIONS

Material	:	Coated: Dyneema® SK 78/99
Specific Gravity	:	0,97 kg/dm³
Construction	:	12 Strand Braided
UV Resistance	:	Excellent
Chemical Resistance	:	Excellent
Melting Point	:	147°C
Critical Temperature	:	65°C
Working Stretch	:	<1%
Fiber Water Absorption	:	None
Wet Abrasion	:	Excellent
Dry Abrasion	:	Excellent
Standard	:	ISO 10325
Length	:	12m, 15m, 23m or 30m

Other Colours & Larger Diameters Upon Request

DIA (mm)	Weight (kg/ 100m)	B.Load (kgf) SK78	B.Load (kgf) SK99	DIA (inch)	Weight (lbs/ 100ft)	B.Load (lbs) SK78	B.Load (lbs) SK99
6	2,30	3.750	4.425	1/4"	1,55	8.250	9.735
8	4,00	6.600	7.788	5/16"	2,69	14.520	17.134
10	6,10	10.400	12.272	3/8"	4,10	22.880	26.998
12	8,70	15.000	17.700	1/2"	5,85	33.000	38.940
14	11,70	20.400	24.072	9/16"	7,86	44.880	52.958
16	15,10	26.520	31.294	5/8"	10,15	58.344	68.847

*Unspliced Break Load (All Tests are in Accordance with ISO 2307)

PU COATING | HEAT TREATMENT | WITH Dyneema®

FORCE K® SBF EXTENSION

APPLICATIONS

Winch Line

BENEFITS / FEATURES

Superior Bending Fatigue (SBF)
Buoyant
Durable
Very Low Stretch
Lightweight
Easy to Splice
Does not Kink

SPECIFICATIONS

Material	:	Coated UHMWPE Fiber
Specific Gravity	:	0,97 kg/dm³
Construction	:	12 Strand Braided
UV Resistance	:	Excellent
Chemical Resistance	:	Excellent
Melting Point	:	147°C
Critical Temperature	:	65°C
Working Stretch	:	<1,5%
Fiber Water Absorption	:	None
Wet Abrasion	:	Excellent
Dry Abrasion	:	Excellent
Standard	:	-
Length	:	12m, 15m, 23m or 30m

Other Colours & Larger Diameters Upon Request

DIA (mm)	Weight (kg/ 100m)	Min. B.Load (kgf) Unspliced	Min. B.Load (kgf) Spliced	DIA (inch)	Weight (lbs/ 100ft)	Min. B.Load (lbs) Unspliced	Min. B.Load (lbs) Spliced
6	2,30	3.563	3.192	1/4"	1,55	7.838	7.022
8	4,00	6.270	5.681	5/16"	2,69	13.794	12.498
10	6,10	9.880	8.911	3/8"	4,10	21.736	19.604
12	8,70	14.250	12.787	1/2"	5,85	31.350	28.131
14	11,70	19.380	17.442	9/16"	7,86	42.636	38.372
16	15,10	25.194	22.515	5/8"	10,15	55.427	49.533

*Unspliced Break Load (All Tests are in Accordance with ISO 2307)

PU COATING HEAT TREATMENT

DYNE K® SBF SHACKLE

APPLICATIONS

Connection Line

BENEFITS / FEATURES

Can be Opened and Closed Quickly
Buoyant
Very Low Stretch
Self-Locking Under Load
Easy to Use
Extremely Durable

SPECIFICATIONS

Material	:	Coated Dyneema® SK 78
Specific Gravity	:	0,97 kg/dm³
Construction	:	12 Strand Plaited
UV Resistance	:	Excellent
Chemical Resistance	:	Excellent
Melting Point	:	147°C
Critical Temperature	:	65°C
Working Stretch	:	<1,5%
Wet Abrasion	:	Excellent
Dry Abrasion	:	Excellent
Standard	:	ISO 10325
Length	:	-

Other Colours & Larger Diameters Upon Request

Shackle DIA (mm)	Rope DIA (mm)	Total Length in Closed Condition (cm)	Shackle -1 Weight (kg)	Shackle -1 Min. B.Load (kgf)	Shackle - 2 Weight (kg)	Shackle - 2 Min. B.Load (kgf)	Shackle - 3 Weight (kg)	Shackle - 3 Min. B.Load (kgf)
12	7	12,5	0,03	4.670	0,05	10.508	0,07	15.785
14	8	15,0	0,05	5.980	0,07	13.455	0,11	20.212
18	10	17,5	0,09	9.380	0,13	21.105	0,20	31.704
20	12	20,0	0,14	13.460	0,21	30.285	0,32	45.495
24	14	35,0	0,33	18.360	0,49	41.310	0,75	62.057
28	16	40,0	0,48	23.700	0,72	53.325	1,11	80.106
32	18	45,0	0,68	28.500	1,03	64.125	1,57	96.330
34	20	50,0	0,93	34.000	1,39	76.500	2,13	114.920
36	22	55,0	1,24	40.800	1,85	91.800	2,84	137.904
40	24	60,0	1,59	47.940	2,38	107.865	3,65	162.037
44	26	65,0	2,00	55.080	3,00	123.930	4,59	186.170
48	28	70,0	2,49	62.220	3,74	139.995	5,73	210.304
50	30	75,0	3,04	70.380	4,55	158.355	6,98	237.884
54	32	80,0	3,68	79.560	5,52	179.010	8,46	268.913
58	34	85,0	4,41	87.720	6,61	197.370	10,13	296.494
60	36	90,0	5,18	95.880	7,78	215.730	11,92	324.074
64	38	95,0	6,06	106.080	9,10	238.680	13,95	358.550
68	40	100,0	7,05	115.260	10,57	259.335	16,21	389.579
72	42	110,0	8,54	124.440	12,80	279.990	19,63	420.607

Spliced Break Load (All tests are in Accordance with ISO 2307)


Shackle -1


Shackle -2


Shackle -3


TOSFED TRIAL KUPASI
WWW.KAYALAROTO.COM.TR

DYNE COVER

APPLICATIONS

Special Cover

BENEFITS / FEATURES

Ideal for Protection Against Abrasion
Easy Handling
Buoyant

SPECIFICATIONS

Material	:	100% Dyneema® SK 78 Fiber
Specific Gravity	:	0,97 kg/dm³
Construction	:	24-32 Plaited
UV Resistance	:	Excellent
Chemical Resistance	:	Excellent
Melting Point	:	147°C
Critical Temperature	:	65°C
Working Stretch	:	<3%
Wet Abrasion	:	Excellent
Dry Abrasion	:	Excellent
Standard	:	-
Length	:	100-200 m Plastic Spool

Larger Diameters Upon Request

VECT COVER

APPLICATIONS

Special Cover

BENEFITS / FEATURES

Ideal for Protection Against Abrasion
Easy Handling
Buoyant

SPECIFICATIONS

Material	:	100% Vectran® Fiber
Specific Gravity	:	1,44 kg/dm³
Construction	:	24-32 Plaited
UV Resistance	:	Sufficient
Chemical Resistance	:	Excellent
Melting Point	:	500°C
Critical Temperature	:	350°C
Working Stretch	:	<3%
Wet Abrasion	:	Excellent
Dry Abrasion	:	Excellent
Standard	:	-
Length	:	100-200 m Plastic Spool

Other Colours & Larger Diameters Upon Request

DIA (mm)	Weight (kg/100m)	B.Load (kgf)	DIA (inch)	Weight (lbs/100ft)	B.Load (lbs)
4-6			5/32"- 1/4"		
5-7			3/16"- 9/32"		
6-8			1/4"- 5/16"		
7-10			5/32"- 3/8"		
8-12			5/16"- 1/2"		
10-16			3/8"- 5/8"		
12-20			1/2"- 13/16"		

*Unspliced Break Load (All Tests are in Accordance with ISO 2307)

LUPES® COVER

APPLICATIONS

Special Cover

BENEFITS / FEATURES

Good Knot Retention
Supple Surface
Easy Handling

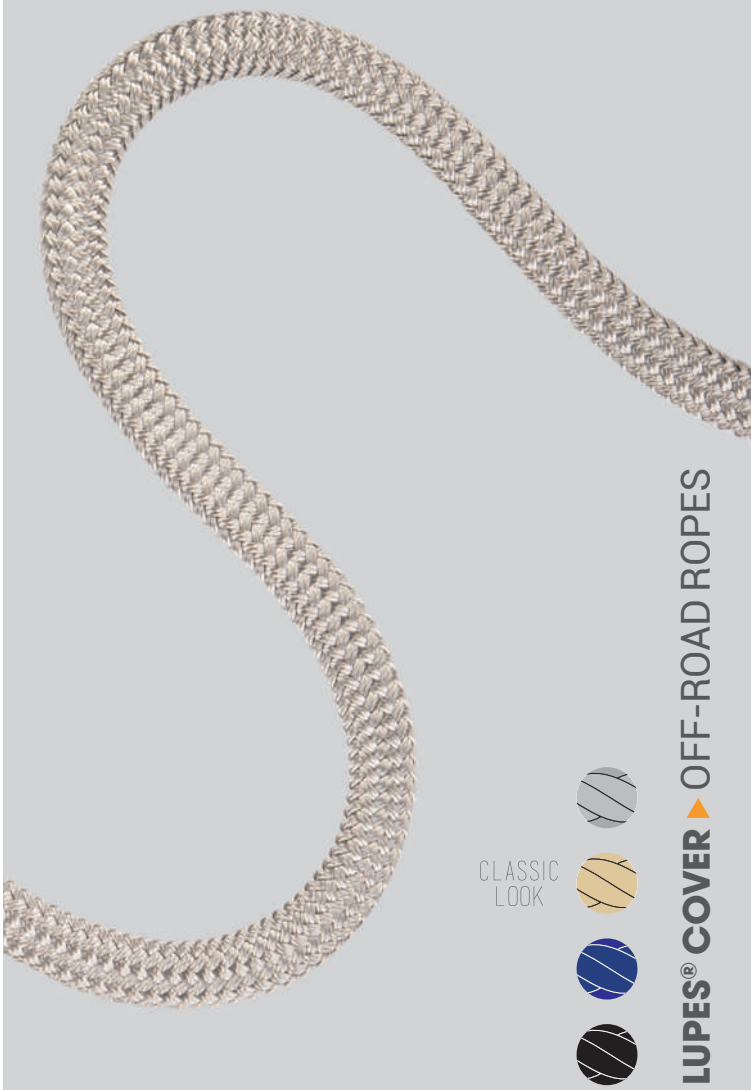
SPECIFICATIONS

Material	:	100% HT Polyester Fiber
Specific Gravity	:	1,38 kg/dm³
Construction	:	24-32 Plaited
UV Resistance	:	Excellent
Chemical Resistance	:	Good
Melting Point	:	256°C
Critical Temperature	:	170°C
Working Stretch	:	<13%
Wet Abrasion	:	Good
Dry Abrasion	:	Good
Standard	:	-
Length	:	100-200 m Plastic Spool

Other Colours & Large Diameters Upon Request

DIA (mm)	Weight (kg/100m)	B. Load (kgf)	DIA (inch)	Weight (lbs/100ft)	B. Load (lbs)
4-6			5/32"- 1/4"		
5-7			3/16"- 9/32"		
6-8			1/4"- 5/16"		
7-10			5/32"- 3/8"		
8-12			5/16"- 1/2"		

*Unspliced Break Load (All tests are in Accordance with ISO 2307)



LUPA® COVER

APPLICATIONS

Special Cover

BENEFITS / FEATURES

Good Knot Retention
Supple Surface
Easy Handling

SPECIFICATIONS

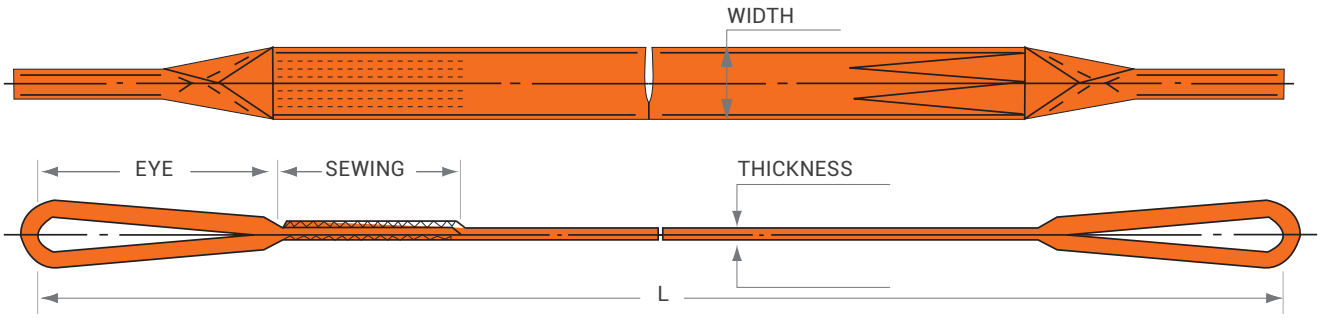
Material	:	100% HT Polyamide Fiber
Specific Gravity	:	1,14 kg/dm³
Construction	:	24-32 Plaited
UV Resistance	:	Very Good
Chemical Resistance	:	Good
Melting Point	:	218°C
Critical Temperature	:	130°C
Working Stretch	:	<20%
Wet Abrasion	:	Sufficient
Dry Abrasion	:	Good
Standard	:	-
Length	:	100-200 m Plastic Spool

Other Colours on Request

DIA (mm)	Weight (kg/100m)	B. Load (kgf)	DIA (inch)	Weight (lbs/100ft)	B. Load (lbs)
4-6			5/32"- 1/4"		
5-7			3/16"- 9/32"		
6-8			1/4"- 5/16"		
7-10			5/32"- 3/8"		
8-12			5/16"- 1/2"		

*Unspliced Break Load (All tests are in Accordance with ISO 2307)

LE-1 BAND WEBBING SLING



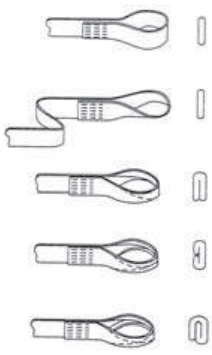
SPECIFICATIONS

Material : 100% HT Polyester Webbing
Standard : EN 1492-1+A1
Safety Factor : 7:1

BENEFITS / FEATURES

High quality product with the 7:1 safety factor
Produced from the high strength polyester webbing
Various sizes available for every application
Not slippery
High resistance to chemical and oil contamination
Custom made slings for specific applications may be made to customer specifications
Various colour are available

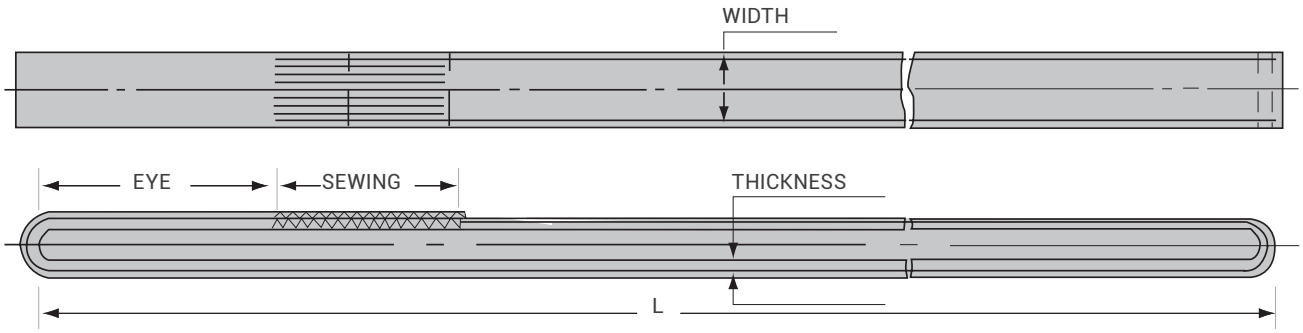
	Width (mm)	Working Load (kgf 100%)	Working Load (kgf 80%)	Working Load (kgf 200%)	Angle (0-45°) Working Load (kfg)	Angle (45-60°) Working Load (kgf)	Breaking Load (kgf)	Working Load (kgf)	Length (m)
VIOLET	30-50	1000	800	2000	1400	1000	7000	1000	1-10
GREEN	70	2000	1600	4000	2800	2000	14000	2000	2-10
YELLOW	90	3000	2400	6000	4200	3000	21000	3000	2-10
GRAY	120	4000	3200	8000	5600	4000	28000	4000	4-10
RED	150	5000	4000	10000	7000	5000	35000	5000	4-10
BROWN	180	6000	4800	12000	8400	6000	42000	6000	4-10
BLUE	250	8000	6400	16000	11200	8000	56000	8000	5-10
ORANGE	300	10000	8000	20000	14000	10000	70000	10000	5-10



1. Flat eye
2. Reversed eye
3. Folded eye 1/2 width from 1 side
4. Folded eye 1/2 width from 2 sides
5. Folded eye 1/3 width

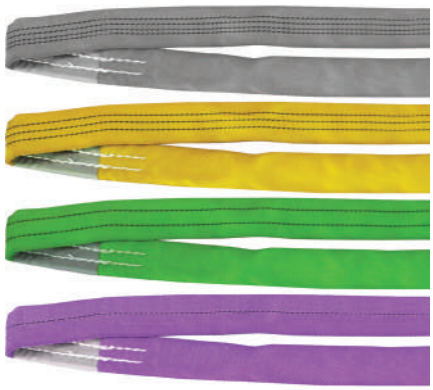
	0° 100%		60° 85%
	30° 95%		90° 75%
	45° 90%		120° 50%

LE-2 ROUND WEBBING SLING



SPECIFICATIONS

Material : 100% HT Polyester Webbing
Standard : EN 1492-2+A1
Safety Factor : 7:1



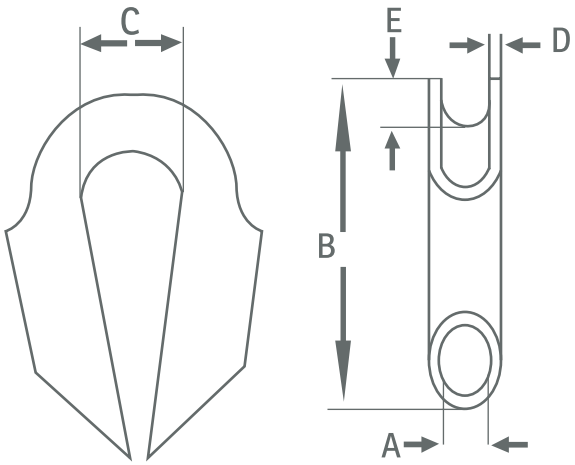
BENEFITS / FEATURES

High quality product with the 7:1 safety factor
Produced from the high strength polyester webbing
Various sizes available for every application
Not slippery
High resistance to chemical and oil contamination
Custom made slings for specific applications may be made to customer specifications
Various colour are available

	Width (mm)	Working Load (kgf 100%)	Working Load (kgf 80%)	Working Load (kgf 200%)	Angle (0-45°) Working Load (kgf)	Angle (45-60°) Working Load (kgf)	Breaking Load (kgf)	Working Load (kgf)	Length (m)
VIOLET	25	1000	800	2000	1400	1000	7000	1000	1-10
GREEN	50	2000	1600	4000	2800	2000	14000	2000	2-10
YELLOW	75	3000	2400	6000	4200	3000	21000	3000	2-10
GRAY	100	4000	3200	8000	5600	4000	28000	4000	4-10
RED	125	5000	4000	10000	7000	5000	35000	5000	4-10
BROWN	150	6000	4800	12000	8400	6000	42000	6000	4-10
BLUE	200	8000	6400	16000	11200	8000	56000	8000	5-10
ORANGE	250	10000	8000	20000	14000	10000	70000	10000	5-10

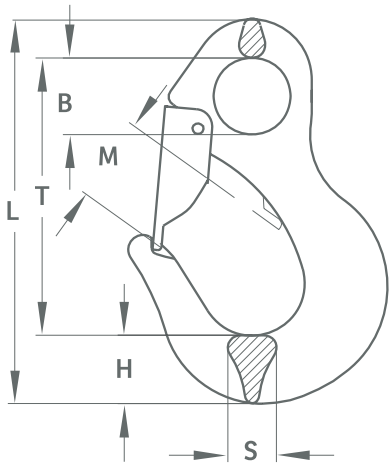
	0° 100%		60° 85%
	30° 95%		90° 70%
	45° 90%		120° 50%

TUBE THIMBLE



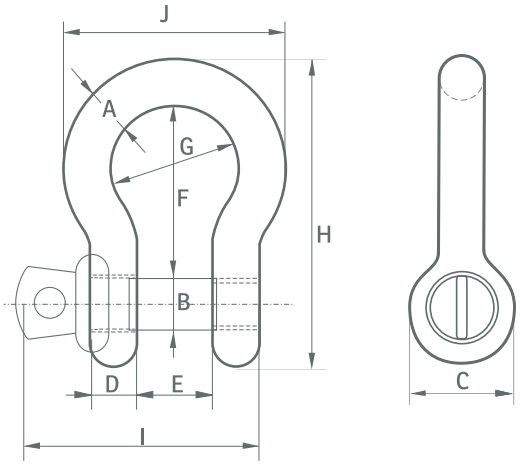
Art. No	Rope Size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Weight (kg)
TM-1.10	8-10	11,60	96	22	3,60	5	0,23
TM-1.13	12-14	13,70	96	23	4,00	5	0,24

EYE HOOK



Art. No	Size (mm)	Working Load (kg)	B (mm)	H (mm)	L (mm)	M (mm)	S (mm)	T (mm)	Weight (kg)
LH-1.6.8	6-8	1.120	21	20	110	20	17	78	0,30
LH-1.7.8	7-8	1.500	23	21	120	23	18	86	0,40
LH-1.8.8	8-8	2.000	27	22	130	25	19	94	0,50
LH-1.10.8	10-8	3.150	32	29	163	32	22	116	0,90
LH-1.13.8	13-8	5.300	37	35	198	40	28	141	1,60
LH-1.16.8	16-8	8.000	51	38	226	42	29	165	2,40
LH-1.18.8	18-8	10.000	57	50	281	60	40	202	4,40

BOW SHACKLE SC



Art. No	Working Load (kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)	Weight (kg)
SC-7-9-1	750	9,00	10	20,00	9	13,50	32,00	22	56,00	46,50	40	0,10
SC-7-10-1	1.000	10,00	11	22,50	10	17,00	36,50	26	63,50	54,00	46	0,14
SC-7-11-1	1.500	11,00	13	26,50	11	19,00	43,00	29	74,00	59,50	51	0,19
SC-7-13.5-1	2.000	13,50	16	34,00	13	22,00	51,00	32	89,00	73,00	58	0,36
SC-7-16-1	3.250	16,00	19	40,00	16	27,00	64,00	43	110,00	89,00	75	0,63
SC-7-19-1	4.750	19,00	22	46,00	19	31,00	76,00	51	129,00	103,00	89	1,01
SC-7-22-1	6.500	22,00	25	52,00	22	36,00	83,00	58	144,00	119,00	1.021	1,50

SPECIFICATIONS

Material : Bow and pin high tensile steel, grade 6, quenched and tempered
Safety Factor : MBL equals 6 x WLL
Standard : EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, grade A, from 2 t and upward these shackles comply with ASME B30.26
Finish : Hot dipped galvanized
Temperature Range : -40°C up to +200°C
Certification : 2.1 2.2 3.1 MTC a DNV GL 0378 CE ABS PDA ABS MA

OUR MATERIALS

DYNEEMA® FIBER

Dyneema® is an UHMWPE fiber. DSM invented Dyneema® more than 30 years ago and it has been in production since 1990. The fiber is incredibly versatile with virtually limitless applications. The fiber is manufactured by means of a gel-spinning process that combines extreme strength with incredible softness. Dyneema® is a super-strong fiber based on UHMWPE. It offers maximum strength combined with minimum weight.

Dyneema® SK75 is an extremely high-strength, low-stretch fiber.

Dyneema® SK78 fiber from DSM Dyneema® proved its superior performance under extreme conditions. The high modulus fiber, SK78 has a better stability under constant loads, improved creep feature than its prototype.

Dyneema® SK90 is one of the most advanced high-tech fibers with 12-13% greater strength, has same creep feature as SK-75 fiber. It is a perfect fiber for extreme sailors who are in search of outstanding performance.

Dyneema® SK99 is the newest fiber in Dyneema's SK range - 99 sailing inspirations with Dyneema® spotlights and shares the many ways the world's strongest fiber is extending performance and giving professional and recreational sailors a winning, and safety, edge. SK99 has nearly 20% higher strength than SK78 and keeps the same elongation and creep features as SK75.

TECHNORA® FIBER

Technora® is a para-aramid fiber made from co-polymers and produced from poly-paraphenylene terephthalamide (ppta). It was independently developed by Teijin and has been commercially available since 1987. This high performance fiber has a range of excellent properties, including high tensile strength, good fatigue resistance, long-term dimensional stability and good resistance to corrosion, heat, chemicals and saltwater.

VECTRAN® FIBER

Vectran® is a high-performance multifilament yarn spun from liquid crystal polymer (LCP) produced by Kururay in Japan. Vectran® is currently the only melt spun lcp fiber in the world that is commercially available. The unique combination of characteristics of Vectran® fibers make it superior to many other materials and enable it to perform under conditions in which other materials fail.

TWARON® FIBER

Twaron® is a para-aramid, high- performance yarn. Offering well-balanced performance in terms of mechanical properties, chemical resistance and thermal stability, Twaron® is recognized across a wide range of industries as an extremely valuable material with excellent durability. Their experience in aramid production, which extends back more than 30 years, not only guarantees a technically well-established product, it is also the basis for developments, often in close cooperation with our customers, to tailor Twaron® to the specific requirements of various applications.

POLYESTER

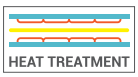
First commercial polyester fiber production: 1953, Dupont company. Polyester is a category of polymers which contain the ester functional group in their main chain. Polyester is the most durable of the common materials. It has good breaking load and a low elongation. It has good resistance against sunlight, external abrasion. Polyester does not lose strength rapidly due to cyclic loading. Polyester has a low co-efficient of friction. Polyester is used as a material for the cover (protection against UV radiation) in the hig-tech ropes and is most widely used fiber in yachting ropes as well as for anchoring lines.

POLYAMIDE

First commercial nylon fiber production: 1939, Dupont company. A manufactured fiber in which the fiber forming substance is a long-chain synthetic polyamide in which less than 85% of the amide-linkages are attached directly (-conh-) to two aliphatic groups. Polyamides-of its strength when wet. The abrasion resistance of polyamide is better in wet conditions than in dry conditions. Polyamide can become stiff (kept in wet condition for too long). The most important polyamides are PA6 and PA6.6. Polyamide is used for mooring lines, sport climbing ropes, safety and rescue ropes.

OUR TREATMENTS

This special polyurethane coating known as long lasting- most efficient kind of protective coating that is being applied to each of our high-tech lines to improve abrasion resistance on the ropes and avoids slippage between cover and core. This particular process offers excellent substrate protection to get better results, which also makes the splicing much easier.



This particular thermal process increases efficiency and strength of Dyneema® ropes, which also achieves significant improvements in the break load of the rope and almost eliminates the 'creep' that helps ropes to have better performance. This procedure contracts the yarns and increases the net fiber density of the rope as well. The ropes become stronger and more durable than standard production performance ropes through these processes.

Dyneema® fiber currently has a lowest stretch among all the other synthetic fibers. However, the constructional elongation will occur during twisting and braiding processes of basic rope manufacturing procedure. Pre-Stretch method is used to minimize this constructional elongation and improve rope strength. When the heat set and Pre-Stretch process applied on the rope together, the both constructional and structural elongation will be reduced yet further increase in strength is also obtained by making the polymer to linear array. We apply this method to all of our high-tech and mid-tech lines to have an excellent product that exceeds our customer's needs.

STANDARDS OF ROPES

EN ISO 9554	Fibre Ropes - General Specifications
EN ISO 1968	Fibre Ropes and Cordage - Vocabulary
EN ISO 2307	Fibre Ropes - Determination of Certain Physical and Mechanical Properties
EN ISO 1140	Fibre Ropes - Polyamide - 3, - 4 and - 8 Strand Ropes
EN ISO 1141	Fibre Ropes - Polyester - 3, - 4 and - 8 Strand Ropes
EN ISO 1346	Fiber Ropes - Polypropylene - 3, - 4 and - 8 Strand Ropes
EN ISO 1181	Fibre Ropes - Manila and Sisal - 3,- 4 and - 8 Strand Ropes
ISO 10547	Polyester Fibre Ropes - Double Braid Construction
ISO 10554	Polyamide Fibre Ropes - Double Braid Construction
ISO 10572	Mixed Polyolef in Fibre Ropes
ISO 10325	Fibres Ropes - High Modulus Polyethylene - 8 Strand Braided Ropes, 12 Strand Braided Ropes and Covered Ropes
ISO 10556	Fibres Ropes of Polyester/Polyolef in Dual Fibres
EN 1891	Personel Protective Equipment for The Prevention of Falls From A Height - Low Stretch Kernmantel Ropes
EN 892	Mountaineering Equipment - Dynamic Mountaineering Ropes - Safety Requirements and Test Methods
EN 564	Mountaineering Equipment - Accessory Cord - Safety Requirements and Test Methods

STANDARDS OF ROPES

MIL-DTL 24050E	Polyamide Fibre Ropes - Double Braid Construction

STANDARDS OF SLINGS

EN 1492-1+A1	Textile Slings - Safety - Part 1: Flat Woven Webbing Slings, Made of Man - Made Fibers for General Purpose Use
EN 1492-2+A1	Textile Slings - Safety - Part 2: Roundslings, Made of Man - Made Fibers for General Purpose Use

QUALITY - TEST

Kaya Ropes manufactures all kinds of ropes with technical specifications that are suitable for all kind of conditions & ropes made for a specific field with international quality certifications also offering a wide range of construction type and raw materials for every field where the safety of human life and property is of prime concern.

For certain type of products, Kaya Ropes has the type approval and inspection certificates from Turk Loydu. Additionally, Kaya Ropes offers inspection certificates from DNV-GL and Bureau Veritas upon special request from their clients.

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