



# OFF-ROAD ROPES

2026 | ENG

Upgrade Your Lines









## KAYA COMPANIES

[www.kayacompanies.com](http://www.kayacompanies.com)

### Kaya Companies;

A leader in its field today, Kaya Group began business in the 1980's as Kaya Construction. 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 SAFETY | KAYA ROPES | KAYA ARCHITECTURE | KAYA TRAINING | KAYA ADVENTURE | KAYA SCAFFOLDING  
KAYA CONSTRUCTION | KAYA RESCUE | KAYA DEFENCE | KAYA SECURITY | KAYA SPORT | KAYA LIFTING | KAYA NATURAL



# DYNE K® WINCHLINE

## APPLICATIONS

Winch Line

## BENEFITS / FEATURES

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

DYNE K® WINCHLINE is designed for safe and efficient pulling and lifting. It features a thimble eye with a hook on one end for quick and secure attachment, and a ferrule end fitting on the other for easy connection to the winch drum.



## 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	4.080	4.810	1/4"	1,55	8.976	10.582
8	4,00	7.040	8.310	5/16"	2,69	15.488	18.282
10	6,10	10.750	12.690	3/8"	4,10	23.650	27.918
12	8,70	15.300	18.050	1/2"	5,85	33.660	39.710
14	11,70	20.400	24.070	9/16"	7,86	44.880	52.954
16	15,20	26.010	30.690	5/8"	10,21	57.222	67.518

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



# FORCE K® MAX WINCHLINE

## APPLICATIONS

Winch Line

## BENEFITS / FEATURES

- Superior Bending Fatigue
- Buoyant
- Durable
- Very Low Stretch
- Lightweight
- Easy to Splice
- Does not Kink

**FORCE K® MAX WINCHLINE** is designed for safe and efficient pulling and lifting. It features a thimble eye with a hook on one end for quick and secure attachment, and a ferrule end fitting on the other for easy connection to the winch drum.



## 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	: 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	4.080	4.810	1/4"	1,55	8.976	10.582
8	4,00	7.040	8.310	5/16"	2,69	15.488	18.282
10	6,10	10.750	12.690	3/8"	4,10	23.650	27.918
12	8,70	15.300	18.050	1/2"	5,85	33.660	39.710
14	11,70	20.400	24.070	9/16"	7,86	44.880	52.954
16	15,20	26.010	30.690	5/8"	10,21	57.222	67.518

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



FORCE K® MAX WINCHLINE ▲ 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  
Easy to Splice



## GUIDELINES&RECOMMENDATIONS

Durable kinetic recovery rope with eye loops at both ends, built for safe and effective off-road recoveries.

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 <sup>3</sup>
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	: EN ISO 10554
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

Durable kinetic recovery rope with eye loops at both ends, built for safe and effective off-road recoveries.

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 Trucks

## SPECIFICATIONS

Material	:	100% HT Polyamide Fiber
Type	:	L
Specific Gravity	:	1,14 kg/dm <sup>3</sup>
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® SQUARE K.E.R.R ▲ OFF-ROAD ROPES



# 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

Durable kinetic recovery rope with eye loops at both ends, built for safe and effective off-road recoveries.

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 Trucks

## SPECIFICATIONS

Material	: 100% HT Polyamide Fiber
Type	: T
Specific Gravity	: 1,14 kg/dm <sup>3</sup>
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)









# DYNE K® EXTENSION

## APPLICATIONS

Winch Line

## BENEFITS / FEATURES

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

Reliable winch line extension with thimble eyes on both ends—giving you extra reach and flexibility for tough off-road recoveries.



## 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	: 7,5m, 12m, 15m 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	4.080	4.810	1/4"	1,55	8.976	10.582
8	4,00	7.040	8.310	5/16"	2,69	15.488	18.282
10	6,10	10.750	12.690	3/8"	4,10	23.650	27.918
12	8,70	15.300	18.050	1/2"	5,85	33.660	39.710
14	11,70	20.400	24.070	9/16"	7,86	44.880	52.954
16	15,20	26.010	30.690	5/8"	10,21	57.222	67.518

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





# FORCE K<sup>®</sup> MAX EXTENSION

## APPLICATIONS

Winch Line

## BENEFITS / FEATURES

- Superior Bending Fatigue
- Buoyant
- Durable
- Very Low Stretch
- Lightweight
- Easy to Splice
- Does not Kink

Reliable winch line extension with thimble eyes on both ends—giving you extra reach and flexibility for tough off-road recoveries.



## SPECIFICATIONS

Material	: Coated UHMWPE Fiber
Specific Gravity	: 0,97 kg/dm <sup>3</sup>
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	: 7,5m, 12m, 15m 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	4.080	4.810	1/4"	1,55	8.976	10.582
8	4,00	7.040	8.310	5/16"	2,69	15.488	18.282
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12	8,70	15.300	18.050	1/2"	5,85	33.660	39.710
14	11,70	20.400	24.070	9/16"	7,86	44.880	52.954
16	15,20	26.010	30.690	5/8"	10,21	57.222	67.518

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



FORCE K<sup>®</sup> MAX EXTENSION ▲ OFF-ROAD ROPES



# DYNE K® 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	: -
Length	: -

Other Colours & Larger Diameters Upon Request

Shackle DIA (mm)	Rope DIA (mm)	Total Length in Closed Condition (cm)	Weight (kg)	Min. B.Load (kgf)	Weight (kg)	Min. B.Load (kgf)	Weight (kg)	Min. B.Load (kgf)
			Shackle -1					
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

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



Shackle -1



Shackle -2



Shackle -3





# FORCE K® 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 UHMWPE
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	: -
Length	: -

Other Colours & Larger Diameters Upon Request

Shackle Dia (mm)	Rope Dia (mm)	Total Length In Closed Condition (cm)	Weight (kg)	Minimum B.load (kgf)	Weight (kg)	Minimum B.load (kgf)	Weight (kg)	Minimum B.load (kgf)
			Shackle-1		Shackle-2		Shackle-3	
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

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



Shackle -1



Shackle -2



Shackle -3



FORCE K® SHACKLE ▲ SHACKLES





# 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/dm <sup>3</sup>
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

**Vectran™**

## APPLICATIONS

Special Cover

## BENEFITS / FEATURES

Ideal for Protection Against Abrasion  
Easy Handling  
Buoyant

## SPECIFICATIONS

Material	: 100% Vectran® Fiber
Specific Gravity	: 1,44 kg/dm <sup>3</sup>
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/dm <sup>3</sup>
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

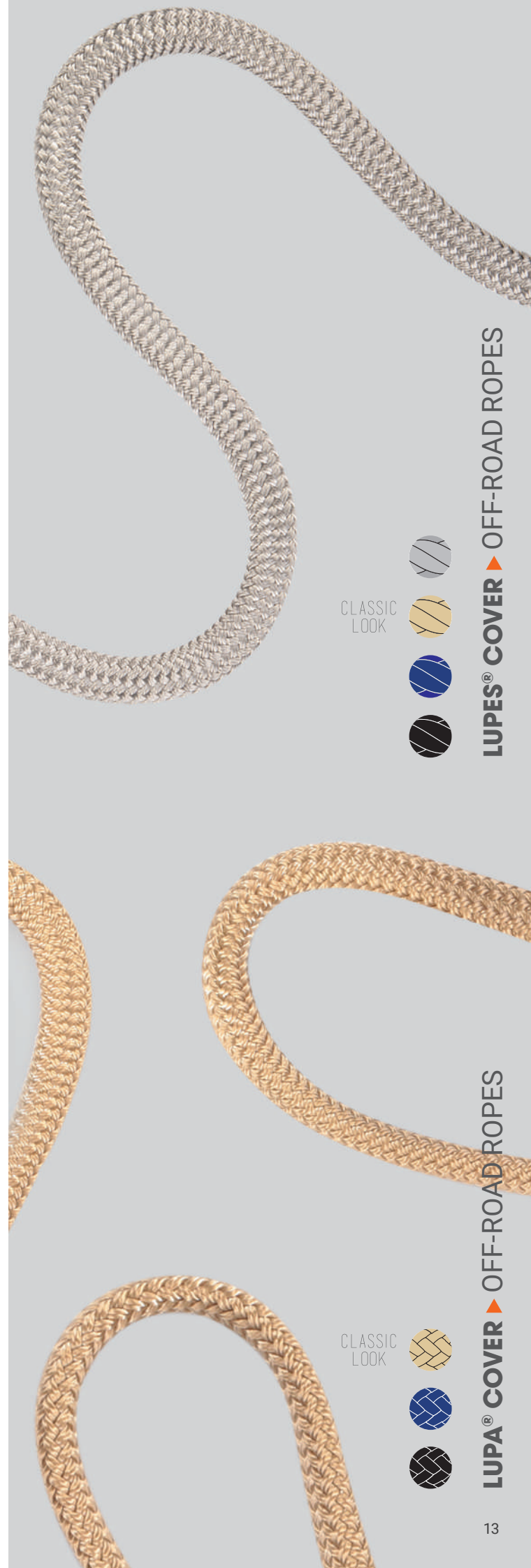
## SPECIFICATIONS

Material	:	100% HT Polyamide Fiber
Specific Gravity	:	1,14 kg/dm <sup>3</sup>
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)



CLASSIC  
LOOK



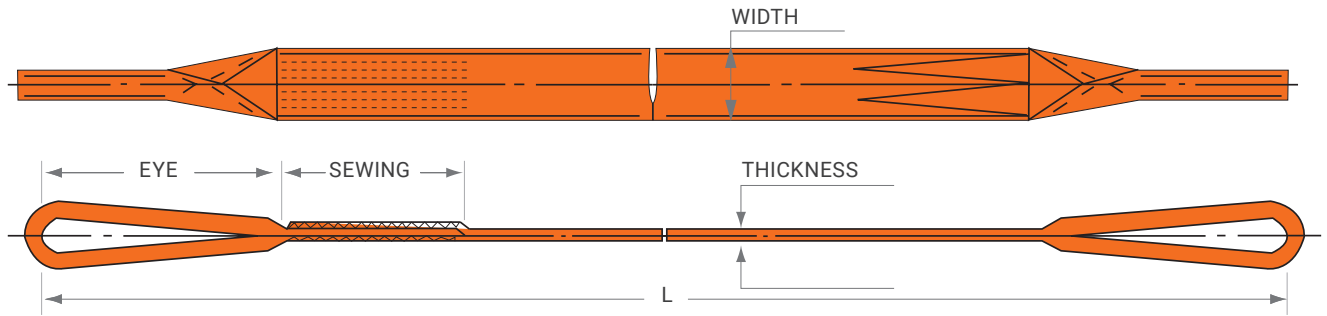
LUPES® COVER ▲ OFF-ROAD ROPES

CLASSIC  
LOOK



LUPA® COVER ▲ OFF-ROAD ROPES

# LE-1 BAND WEBBING SLING



## SPECIFICATIONS

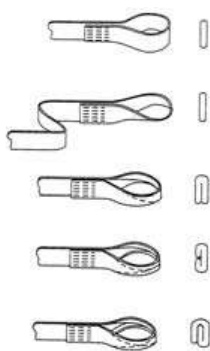
Material : 100% HT Polyester Webbing  
 Standard : EN 1492-1+A1  
 Safety Factor : 7:1

## 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 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	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

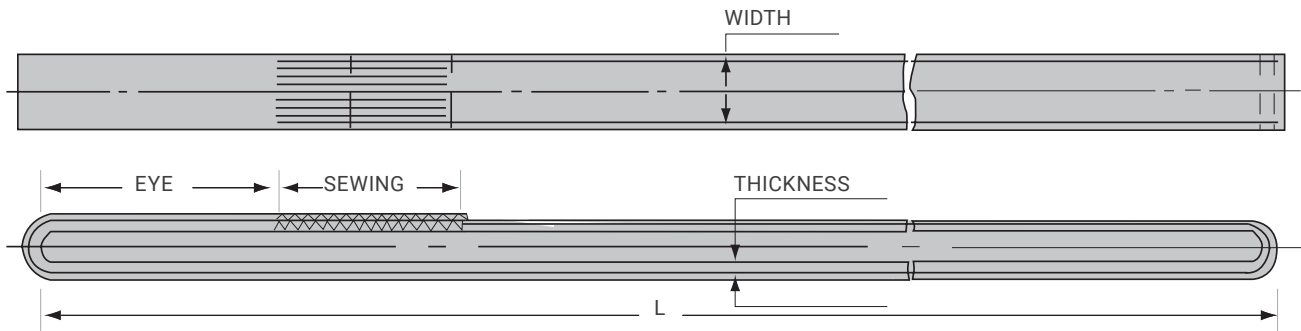
4. Folded eye 1/2 width from 2 sides

5. Folded eye 1/3 width

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



# LE-2 ROUND WEBBING SLING

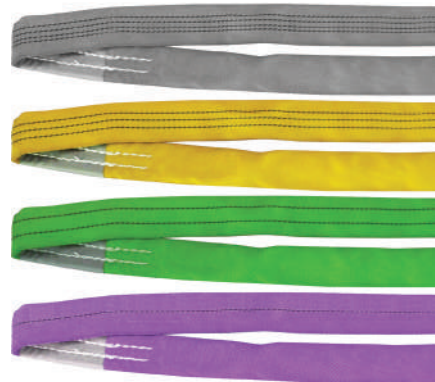


## SPECIFICATIONS

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

## BENEFITS / FEATURES

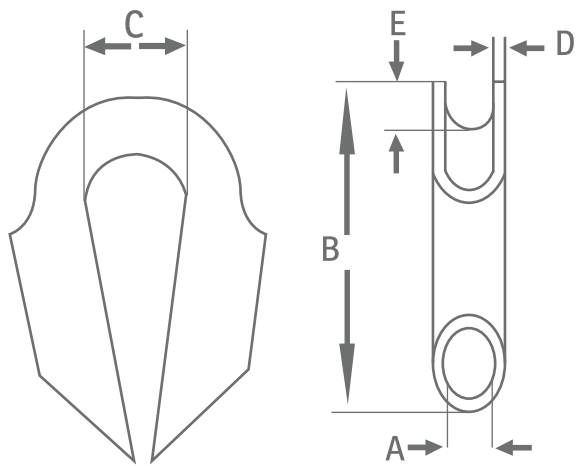
- High quality product with the 7:1 safety factor
- Produced from the high strength polyester webbing
- Various sizes available for every application
- Not slippery
- High resistance to chemical and oil contamination
- Custom made slings for specific applications may be made to customer specifications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

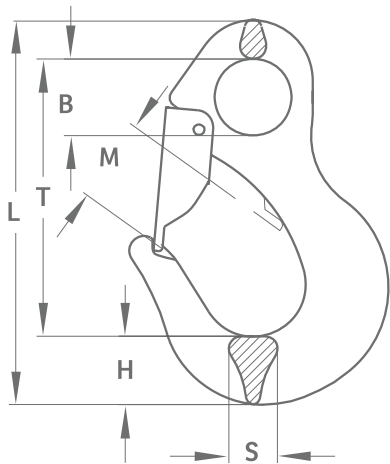
U	0° 100%	△	60° 85%
△	30° 95%	△	90° 70%
△	45° 90%	△	120° 50%

# 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

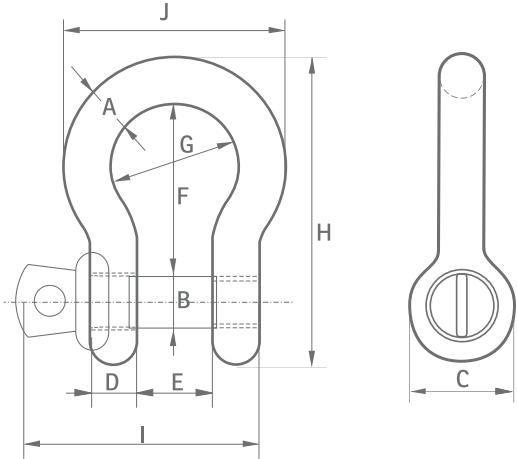
# EYE HOOK



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	: <a href="#">2.1</a> <a href="#">2.2</a> <a href="#">3.1</a> <a href="#">MTC a</a> <a href="#">DNV GL 0378</a> <a href="#">CE</a> <a href="#">ABS PDA</a> <a href="#">ABS MA</a>



# OUR MATERIALS



## DYNEEMA® FIBER

Dyneema®, an UHMWPE fiber, was invented by DSM over 30 years ago and 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 a high-strength, low-stretch fiber with good durability. It has been considered as the industry reference for years.

**Dyneema® SK78** proved its superior performance under extreme conditions. The high modulus fiber, SK78 has the same strength as SK75 but offers significantly improved creep characteristics than its predecessor.

**Dyneema® SK99** provides exceptional strength for its weight. - 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 SK78.

**Dyneema® DM20** has ultra-high creep resistant and zero permanent elongation. Developed for offshore use, DM20 ropes outperform alternatives, exceeding standards for deep-water mooring and outlasting the installation's operational life. While slightly lower in tenacity than SK78, DM20's key advantage is its near-zero creep, making it ideal for static load applications like standing rigging

## Technora®

### 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™

### VECTRAN® FIBER

Vectran® is a high-performance multifilament yarn spun from liquid crystal polymer (LCP) produced by Kuraray 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®

### 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

### 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

### POLYAMIDE

Commercial production of nylon fiber began in 1939 with the DuPont company. Nylon is a manufactured fiber in which the fiber-forming substance is a long-chain synthetic polyamide, where less than 85% of the amide linkages (-CO-NH-) are directly attached to two aliphatic groups. Polyamides lose strength when wet but have better abrasion resistance in wet conditions compared to dry ones. However, they can become stiff if kept wet for too long. The most important polyamides are PA 6 and PA 6.6. Polyamide is commonly used in mooring lines, sport climbing ropes, and safety and rescue ropes.



# OUR TREATMENTS



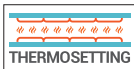
This special polyurethane coating known as long lasting- most efficient kind of protective coating that is being applied to each of our high-tech lines to improve abrasion resistance on the ropes and avoids slippage between cover and core. This particular process offers excellent substrate protection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



This Thermo Setting process not only extends the lifespan of the rope but also enhances its strength and flexibility, making it ideal for various applications. With its exceptional thermal performance and ability to withstand extreme conditions, Thermo Setting treated ropes offer extra durability and reliability as well as extra softness in hand, providing peace of mind to users in demanding environments.



# 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	Fibre Ropes - Polypropylene - 3, - 4 and - 8 Strand Ropes
EN ISO 1181	Fibre Ropes - Manila and Sisal - 3, - 4 and - 8 Strand Ropes
EN ISO 10547	Polyester Fibre Ropes - Double Braid Construction
EN ISO 10554	Polyamide Fibre Ropes - Double Braid Construction
EN ISO 10572	Mixed Polyolef in Fibre Ropes
EN 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
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# 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 - TESTING

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 and Bureau Veritas upon special request from their clients.











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