



MILITARY LINE

CARLMARKS MILITARY LINE

ENGINEERED FOR DEMANDING OPERATIONS

For more than 175 years, Carlmarks has developed and supplied rope and textile solutions where strength, reliability and durability are essential. Today, this experience is combined with modern materials and advanced rope constructions to meet the demanding requirements of professional, military and maritime applications.

The Carlmarks Military Line is a dedicated range of high-performance ropes and load-bearing solutions designed for demanding operational environments. From rescue and recovery to lifting, towing, mooring and naval operations, the range provides reliable solutions for missions where equipment must perform under challenging conditions.

The portfolio includes specialised rescue ropes, high-strength winch lines, HMPE soft shackles, lifting slings and multipurpose lines for safety and utility applications. For naval operations, Carlmarks offers a comprehensive selection of heavy-duty ropes, including double braided constructions, HMPE lines, mixed-fibre solutions, mooring ropes and winch lines.

Selected products combine advanced HMPE technology with high strength-to-weight ratios, low elongation, UV and chemical resistance and excellent abrasion resistance. Conventional fibre constructions are also available where controlled elasticity, impact absorption and robust handling characteristics are required.

The range is complemented by Polyform professional fenders, developed for demanding maritime environments and suitable for navy and coast guard vessels.

From individual components to heavy-duty operational equipment, the Carlmarks Military Line is built around one fundamental principle:

RELIABLE ROPE SOLUTIONS FOR DEMANDING MISSIONS.

Backed by more than 175 years of experience and the resources of the LIROS Group, Carlmarks continues to combine proven rope-making expertise with modern technology — delivering solutions engineered for the challenges of today's professional and defence applications.





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FAST ROPE

Rescue & Towing

Special rope for descent from helicopters.

Soft for hands.

Can be equipped with metal accessories and loops upon request.

Available in two materials - Polyester and Nylon Spun.



PES 8-strand braided ropes	Meter weight, g	MBL, kg
Ø - 32mm	777	15 295
Ø - 40mm	1 210	24 065

Nylon Spun 8-strand braided rope	Meter weight, g	MBL, kg
Ø - 32mm	540	7 500
Ø - 40mm	930	8 400

PAC FORCE WINCH ROPE

Rescue & Towing

Wire rope replacement for off-road winches.

Pre-stretched and heat-treated construction offers low stretch and excellent abrasion resistance.



	Meter weight, g	MBL, kg	Spliced lengths	Characteristics
Ø - 5mm	14	1 800	15,2m (50ft)*	Elongation at break: 2,4% Do not absorb water Floating UV & chemical resistant
Ø - 6mm	23	3 600		
Ø - 8mm	38	5 400	30,5m (100ft*)	
Ø - 9mm	52	7 500		
Ø - 10mm	62	9 600		
Ø - 12mm	94	15 000		
Ø - 14mm	130	16 500		
Ø - 16mm	165	25 000		

*custom lengths available upon request

NYLON WINCH ROPE

Rescue & Towing

Wire rope replacement for off-road winches.
Pre-stretched and heat-treated construction offers low stretch and excellent abrasion resistance.



8-strand braided	Meter weight, g	MBL, kg	Spliced lengths	Characteristics
Ø - 22mm	305	10 000	6m, 8m, 10m, 12m, 14m, 16m, 20m*	Elongation at break: 25% Sinking UV resistant Abrasion resistant
Ø - 28mm	490	15 800		
Ø - 32mm	640	20 000		
Ø - 44mm	1 210	37 000		
Ø - 48mm	1 440	46 850		
Ø - 56mm	1 970	60 000		
Ø - 64mm	2 570	75 000		
Ø - 72mm	3 250	95 000		

*custom lengths available upon request



HMPE SOFT SHACKLES

Safety & Utility

Perfect help in towing, rigging, vehicle recovery.
Easy attachment & quick release



	Meter weight, g	MBL, kg	Spliced lengths	Characteristics
Ø - 5mm	14	1 670	80mm, 120mm, 150mm, 200mm*	Elongation at break: 2,4% Do not absorb water Floating UV & chemical resistant
Ø - 6mm	23	3 780		
Ø - 8mm	38	6 030		
Ø - 9mm	52	7 870		
Ø - 10mm	62	9 720		
Ø - 12mm	94	14 850		
Ø - 14mm	130	19 800		

*custom lengths available upon request

PARACORD

Safety & Utility

Braided PES twine with parallel Nylon core.
Survival rope - when it is necessary to fasten, attach, secure, belt or hang.



	Meter weight, g	MBL, kg	Characteristics
Ø - 2mm	2,6	102	Elongation at break: 25% Sinking UV resistant Abrasion resistant
Ø - 3mm	5,4	200	
Ø - 4mm	8	305	

PAC STATICA

Safety & Utility

48-strand Nylon static rope (Type A)

	Meter weight, g	MBL, kg	Characteristics
Ø - 10,5mm	72,8	3 365	Low extension Energy absorbtion
Ø - 11mm	75	3 570	

* available with reflect marker



HMPE MULTIPURPOSE ROPE

Safety & Utility

12-strand braided, pre-stretched & impregnated twine with clasp one or both ends.

Thin but very strong, compact rope.

Can be easily fixed to a bulletproof vest and used in emergency situations.



	Meter weight, g	MBL, kg	Characteristics
Ø - 4mm	11	1 200	Elongation at break: 2,4% Do not absorb water Floating UV & chemical resistant

HMPE LIFTING SLING

Safety & Utility

	Loop length, m*	MBL, kg**
Ø - 16mm	0,150	22 000
Ø - 18mm	0,155	25 000
Ø - 20mm	0,160	34 000
Ø - 22mm	0,165	37 000
Ø - 24mm	0,170	48 000
Ø - 28mm	0,185	58 500



*minimum internal length of loop, m

**working load limit, kg (WLL) - Safety factor 7

DRONE LINE

Safety & Utility

Braided PES twine with HMPE core.

	Loop length, m	MBL, kg
Ø - 2mm	3	260
Ø - 3mm	7	400
Ø - 4mm	12	805
Ø - 5mm	18	1 050
Ø - 6mm	26	1 600
Ø - 8mm	39	2 905
Ø - 10mm	70	4 940
Ø - 12mm	98	7 260
Ø - 14mm	135	9 200
Ø - 16mm	176	11 620



*different colors available, also with reflect marker.



DOUBLE BRAIDED ROPES

Naval Forces

Nylon DBR

	Meter weight, g	MBL, kN	Characteristics
Ø - 24mm	358	124	Specific weight - 1,14 g/cm ³ Sinking Melting temp. 215° Absorb humidity Good resistance to drop loads and to wear
Ø - 26mm	420	145	
Ø - 28mm	488	168	
Ø - 30mm	560	193	
Ø - 32mm	637	219	
Ø - 34mm	806	277	
Ø - 36mm	995	341	
Ø - 40mm	1 200	412	
Ø - 44mm	1 430	490	
Ø - 48mm	1 680	574	
Ø - 56mm	1 950	665	
Ø - 60mm	2 240	762	
Ø - 64mm	2 550	867	
Ø - 72mm	3 220	1 100	
Ø - 80mm	3980	1 350	



DOUBLE BRAIDED ROPES

Naval Forces

PES DBR

	Meter weight, g	MBL, kN	Characteristics
Ø - 24mm	459	121	Specific weight - 1,38 g/cm ³ Sinking Melting temp. 260° Absorb humidity Resistance to chemically active habitat Soft and flexible when wet
Ø - 26mm	539	141	
Ø - 28mm	625	163	
Ø - 30mm	717	186	
Ø - 32mm	816	210	
Ø - 34mm	1 030	264	
Ø - 36mm	1 280	324	
Ø - 40mm	1 540	389	
Ø - 44mm	1 840	460	
Ø - 48mm	2 160	537	
Ø - 56mm	2 500	618	
Ø - 60mm	2 870	707	
Ø - 64mm	3 260	800	
Ø - 72mm	4 130	1 000	
Ø - 80mm	5 100	1 230	



PAC FORCE

Naval Forces

HMPE 12-strand pre-stretched & impregnated braided rope

	Meter weight, g	MBL, kN	Characteristics
Ø - 2mm	3	5	Specific weight - 0,98 g/m Floating Metling temp. 147° UV resistant Elongation at break - 4,5% Do not absorb water As strong as steel wire rope
Ø - 3mm	5	7	
Ø - 4mm	11	14,7	
Ø - 5mm	14	18	
Ø - 6mm	23	41	
Ø - 8mm	38	59	
Ø - 10mm	62	98	
Ø - 12mm	94	162	
Ø - 14mm	130	206	
Ø - 16mm	165	270	
Ø - 18mm	215	333	
Ø - 20mm	255	382	
Ø - 22mm	310	441	
Ø - 24mm	360	510	
Ø - 26mm	410	598	
Ø - 28mm	468	637	
Ø - 30mm	520	677	
Ø - 32mm	565	736	
Ø - 34mm	620	798	
Ø - 36mm	670	850	
Ø - 38mm	730	932	
Ø - 40mm	795	1 000	
Ø - 44mm	960	1 177	
Ø - 48mm	1 150	1 373	

HMPE DBR

Naval Forces

	Meter weight, g	MBL, kN	Characteristics
Ø - 24mm	364	402	Specific weight - 0,98 g/m Floating Metling temp. 147° UV resistant Elongation at break - 5% Do not absorb water As strong as steel wire rope
Ø - 26mm	423	471	
Ø - 28mm	489	549	
Ø - 30mm	559	637	
Ø - 32mm	635	736	
Ø - 34mm	716	824	
Ø - 36mm	803	912	
Ø - 38mm	888	1 010	
Ø - 40mm	981	1 140	
Ø - 44mm	1 189	1 380	
Ø - 48mm	1 404	1 610	
Ø - 52mm	1 645	1 920	
Ø - 56mm	1 904	2 190	
Ø - 60mm	2 177	2 520	
Ø - 64mm	2 475	2 880	



PAC MIX LINE

Naval Forces

12-strand mixed Danline and HMPE braided rope, pre-stretched & impregnated.

	Meter weight, g	MBL, kN	Characteristics
Ø - 12mm	90	76	Specific weight - 0,96 g/m Floating Metling temp. 147° UV resistant Elongation at break - 9% Do not absorb water Excelent abrasion resisitance
Ø - 14mm	120	103	
Ø - 16mm	155	134	
Ø - 18mm	210	171	
Ø - 20mm	250	211	
Ø - 22mm	305	246	
Ø - 24mm	350	284	
Ø - 26mm	400	332	
Ø - 28mm	450	368	
Ø - 30mm	510	397	
Ø - 32mm	550	432	
Ø - 34mm	610	476	
Ø - 36mm	650	510	
Ø - 38mm	700	554	
Ø - 40mm	780	608	
Ø - 44mm	950	693	
Ø - 48mm	1 150	892	



PAC FORCE LINE

Naval Forces

Double braided rope (PES cover, HMPE core)

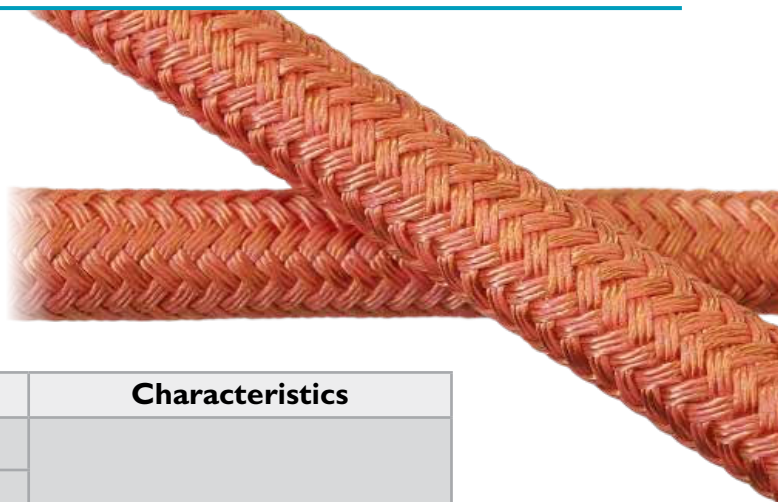


	Meter weight, g	MBL, kN	Characteristics
Ø - 24mm	450	353	Specific weight - 1,10 g/m Sinking Metling temp. 170°/260° UV resistant Elongation at break - 7% Extra abrasion resistance
Ø - 26mm	560	412	
Ø - 28mm	615	492	
Ø - 30mm	700	520	
Ø - 32mm	785	615	
Ø - 36mm	990	724	
Ø - 40mm	1 130	793	
Ø - 44mm	1 360	1 000	
Ø - 48mm	1 570	1 176	
Ø - 52mm	1 925	1 460	
Ø - 56mm	2 230	1 620	
Ø - 60mm	2 565	1 840	
Ø - 64mm	2 940	2 070	
Ø - 72mm	3 700	2 560	
Ø - 80mm	4 260	3 200	

PAC WINCH LINE

Naval Forces

Double braided rope (Danline core, PP/PES cover)



	Meter weight, g	MBL, kN	Characteristics
Ø - 24mm	324	118	Specific weight - 1,10 g/m Sinking Metling temp. 170°/260° UV resistant Elongation at break - 16%
Ø - 26mm	380	138	
Ø - 28mm	440	160	
Ø - 32mm	530	200	
Ø - 36mm	800	270	
Ø - 38mm	866	310	
Ø - 40mm	924	340	
Ø - 44mm	1 100	400	
Ø - 48mm	1 400	500	
Ø - 52mm	1 550	590	
Ø - 56mm	1 780	700	
Ø - 60mm	1 930	760	
Ø - 64mm	2 150	880	
Ø - 68mm	2 427	994	
Ø - 72mm	2 722	1 115	
Ø - 80mm	3 360	1 375	

BRAIDED MOORING ROPES

Naval Forces

Construction: 8-strand, 12-strand (can be pre-stretched).

Materials: Polysteel, PP split film, Nylon, Polyester.



BRAIDED MOORING ROPES

Naval Forces

Construction: 3-strand, 4-strand.

Materials: Polysteel, PP split film, Nylon, Polyester.





POLYFORM – THE ORIGINAL

Inflatable heavy duty fenders for navy and coast guard vessels

Partly made with carbon reduced raw materials

NEW: Reduced environmental footprint!



Multiple rib-reinforced rope hold
Highest breaking strength

High pressure injection molded rope hold
Adding extra strength and durability

Rope hold solid right through
Will not tear!

Unique patented production
The most consistent quality available

UV resistant and cold flex plastic
Suitable for all climates and conditions

Extra flexible body material
High energy absorption and effective fendering

Sturdy, uniform wall thickness
No splits, cracks, or weak points

Valve with half a turn screw,
and integrated non-return flap

Easy inflation and adjustment of air-pressure

Art	NATO NSN	NCAGE
A-1	2040251502997	N0254
A-2	2050251147990	N0254
A-3	2040251204249	N0254
A-4	2040251633443	N0254
A-5	2040251300089	N0254
A-6	2040251502748	N0254
F-1	2040251208977	N0254
F-2	2040251030786	N0254
F-4	2040251030785	N0254
F-5	2040251209235	N0254
F-7	2040251209236	N0254
F-8	2040251300088	N0254
F-11	2040251209237	N0254
F-13	2040251504943	N0254

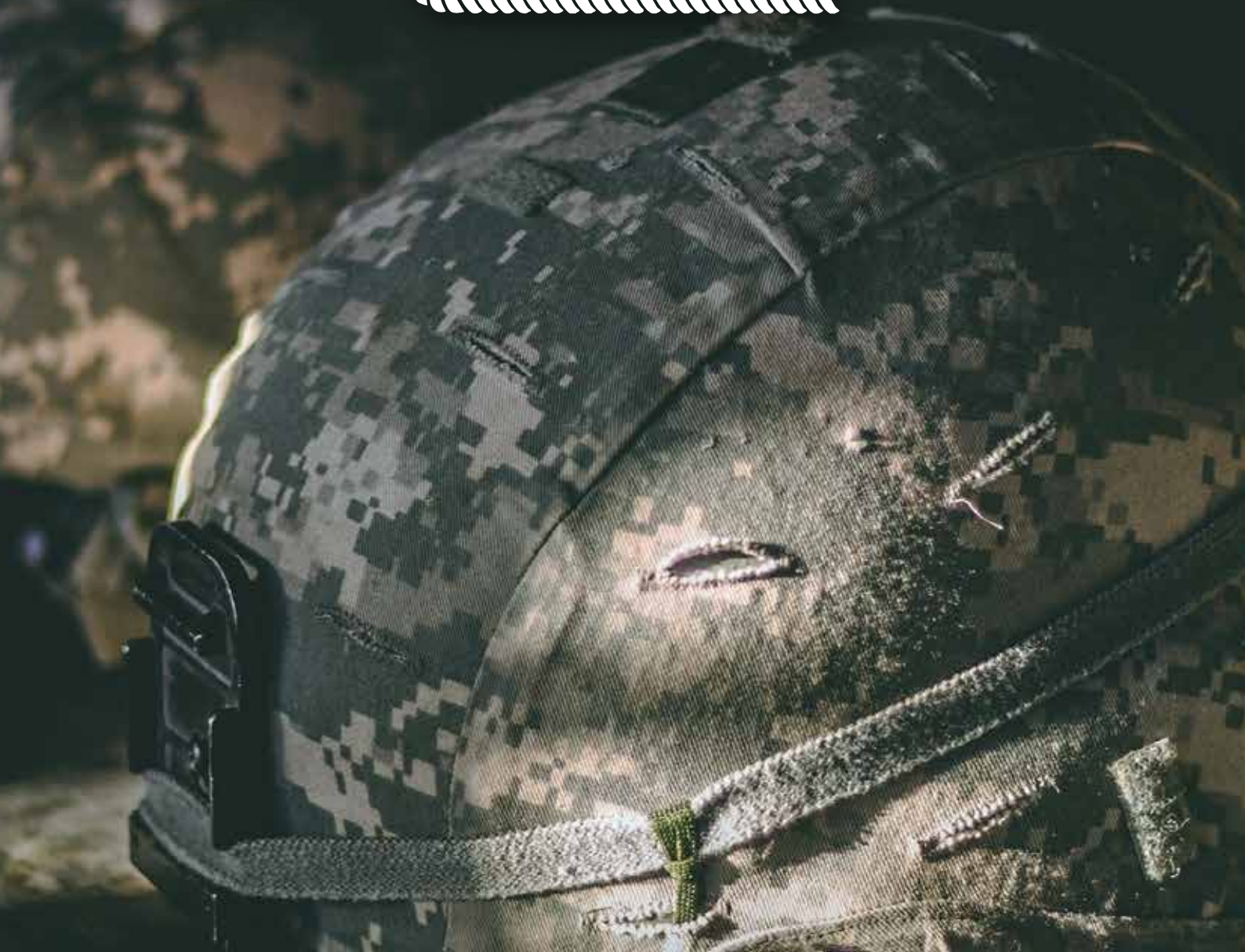
The valve is an integrated part of
the rope hold – no glue/no corrosion!

Valve stays in the product under all "strains"

PROTECTING
VALUE WITH
QUALITY

**THE PROFESSIONALS' CHOICE SINCE 1955.
BUOYS, FENDERS AND FLOATS - MADE IN NORWAY.**





EN DEL AV



LIROS SKANDINAVIA AB



Nordic Rope ApS
Lavendelvej 1
DK-8400 Ebeltøft
Denmark

+ 45 (0)70 20 07 20
info@nordicrope.com



LIROS Skandinavia AB



LIROS Skandinavia AB
Slättegårdsvägen 3
SE-427 50 Billdal
Sweden

+ 46 (0)31 91 52 00
information@lirosropes.se