READY REFERENCE

Safety and Rescue Rope

by Teufelberger

		FERNO STATIC ROPE	PATRON	APEX	WATER RESCUE ROPE	NFPA THROW LINE
ROPE TYPE		Static	Static	Dynamic	Throwline	Throwline
DIAMETER		11 mm	11 mm	11 mm	11 mm	8 mm
SHEATH / COI	RE	Polyester / Nylon	Nylon / Nylon	Nylon / Nylon	Nylon / MFP	Polypropylene / Dyneema®
BRAID		32	32	48	20	16
SHEATH / CORE QUANTITY		47.1 / 52.9 %	35 / 65 %	29 / 71 %		
WEIGHT		91 g/m	75 g/m	81.8 g/m	78.9 g/m	29.8 g/m
SHRINKAGE		< 5 %	4 %	0		
AS 4142.3-19	993	•				
EN 1891 A		•	•			
NFPA 1983:2017		•				NFPA 1983:2012 Throwlines
UIAA 101				•		
EN 892				•		
MIN. BREAKING STRENGTH		37.65 kN	33 kN	MAX IMPACT FORCE UIAA: 9.6 kN	16.45 kN	12.2 kN
KNOTTED BREAK STRENGTH		18.7 kN	18 kN	NUMBER OF FALLS (MIN): 13		
SEWN BREAK STRENGTH		21 kN	21 kN	NUMBER OF FALLS (AVG): 15		
ELONGATION @ 784 N		1.5 %	-	DYNAMIC ELONGATION: 29 %		
ELONGATION @ 50 - 150 KG		1.8 %	3 %	STATIC ELONGATION: 4.8 %		
ROPE FEATURES		 High tensile strengths High abrasion resistance Excellent UV protection Superior handling and knot holding characteristics Optimal sheath/core ratio limits rotation, bounce, and stretch Extremely versatile rope 	 Twisted core for high MBS Extra light weight High dirt resistance with good grip High abrasion protection EN 353-2-certified with Petzl ASAP and ASAP Lock EN 341 A-certified with Anthron DSDplus 	Supple handling Extremely durable Rope runs freely Excellent knotability Endura DRY treatment of rope core keeps water out of the core and lubricates core fibres for better abrasion resistance	 Spliceable rope Floats just under water surface High visibility while in use High load capacity Good grip 	Light and extremely strong Easily packable Floats indefinitely Soft hand Double braid
	Black / Red Fle		White with red fleck	Blue / Yellow (SPRING)	Yellow with red fleck	Yellow
	Solid Red	VTB C4C71-14-200	VTB 7360931	VTB 3402-10	VTB 2371-14 VTB C233	VTB C2336-08
COLOURS	Solid Blue Solid Black	VTB C4C73-14-200 VTB C4C74-14-200	Black (special order) VTB 7360939			
	Solid Orange	VTB C4C74-14-200 VTB C4C75-14-200	VID 7300333	_		
LENGTHS	John Oralige	Std Roll: 200 m	Std Roll: 200 m	Std Roll: 200 m	Std Roll: 183 m / 600 ft	Std Roll: 183 m / 600 ft
APPLICATION	ıc	Sta Non. 200 III	Sta Roll. 200 III	Stu Itoli: 200 III	3ta Italii. 103 1117 000 1t	Sta Roll. 105 H17 000 It
RESCUE	.,	•	•			
WATER SAFETY / RESCUE		—	•		•	•
		•	•	•		
THE PART		•	•	•		
			•	•		
WORK POSITIONING RAPPELLING		•				
RAPPELLING			•			
HAULING	NVANEEDING	•	•	•		
CAVING & CANYONEERING GYM CLIMBING •			•	•		
TIM CLIMDING						
CHALLENGE COURSE		•	•			

 $Typing\ errors\ and\ technical\ changes\ reserved.\ Data\ provided\ by\ manufacturer\ are\ typical\ values\ without\ warranty\ or\ guarantee.$

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	VULCANUS	LT PRUSIK
ROPE TYPE	Static	Accessory Cord
DIAMETER	10.5 mm	6 mm / 8 mm
SHEATH / CORE	Technora® / Nylon	Polyamide / Polyamide
BRAID	32	32
SHEATH / CORE QUANTITY	36 / 64 %	
WEIGHT	74 g/m	6 mm: 25.3 g/m 8 mm: 40.2 g/m
SHRINKAGE	0.4 %	
AS 4142.3-1993		
EN 1891 A	•	
NFPA 1983:2017		
UIAA 101		
EN 892		
MIN. BREAKING STRENGTH	32 kN	6mm: 7.8 kN 8mm: 13.8 kN
KNOTTED BREAK STRENGTH	18 kN	
SEWN BREAK STRENGTH	21kN	
ROPE FEATURES	 Highly heat resistant rope High strength, low elongation at break Increased resistance to cutting and abrasion Well suited for work near heat sources and sharp edges Suitable for fast abseiling procedures in rapid succession 	 Firm yet supple Excellent balance between knotability and grip. Engineered for smooth, controlled movement over the rope and easy untying of knots Torque free construction from 100% polyamide Smooth surface structure for high user comfort
		Unsewn 6mm Red VTB 3821-06 Unsewn 8mm Green
		VTB 3822-08 6mm x 55cm Lt Blue
COLOURS	Gold-Technora® Natura	VTB C5MZ03F-06-002
	VTB 7360048	6mm x 40cm Red VTB C5MZ01-06-001
		8mm x 55cm Burgundy VTB C5MZ01F-08-001
		8mm x 40cm Green VTB C5MZ02F-08-002
LENGTHS	Standard Length = 700 m	Pre-Sewn Loops: 40 cm & 55 cm Unsewn Rolls: 91.5 m / 300 ft
APPLICATIONS		
RESCUE	•	•
WATER SAFETY / RESCUE		
MILITARY	•	•
FALL ARREST	•	
WORK POSITIONING	•	•
RAPPELLING	•	
HAULING		•

Source: 1 Cancord Inc. Rope Fibers www.cancord.com

SEE THE TEUFELBERGER ROPE ONLINE





Fibre Treatments

Endura Standard DRY

Endura DRY is a multi-stage application to protect ropes against water. For standard dry ropes, the coating is applied to the individual core yarns prior to the braiding process. The dry-treated cores are covered by a durable, protective sheath to lock in the water-blocking power of the Endura coating. The APEX rope features this treatment.

Rope Construction

Kernmantle

Features a 32-carrier, 40-carrier or 48-carrier sheath that protects the core from grit and particle absorption. The sheath is designed to generate some grab and friction for rappelling and lowering operations. The core is comprised of bundles of fibre that are either parallel or twisted, depending on the required perfomance. These bundles help to keep the rope firm yet flexible.

Double Braid

A braided core inside a braided cover produces an easy-to-handle rope that is strong and very durable. Since the rope consists of two individual parts, it is possible to combine different fibres to create ropes merging specific characteristics of different raw materials.

Rope Fibres

Nylon (NY) / Polyamide (PA)

- High breaking load as well as high elongation
- Used in products that are required to absorb shock loads
- Abrasion resistance is better in wet conditions than in dry because nylon tends to take up water (up to 7%).
- · Can become stiff if kept in wet conditions for too long
- Lower resistance to UV-radiation in sunlight compared to polyester.

Polyester (PES)

- Static ropes made from PES exhibit good breaking loads with low stretch
- Good UV resistance, salt water resistance, rot and mildew resistance
- Good abrasion strength in both wet and dry conditions
- Dynamic energy absorption capacity is much lower than nylon ropes

Polypropylene (PP)

- Only used for simple applications due to its limited technical characteristics.
- Very light, buoyant in water
- · Low strength relative to other synthetic fibres
- Unaffected by water

¹Dyneema®

- Resistant to bleaches, other oxidizing agents and most solvents. Acid and alkali resistant.
- · Light weight and high strength
- Unaffected by water and sea water
- Susceptible to gradual elongation under load
- Fair UV resistance

¹Technora®

- Exceptional heat resistance (decomposes at 500° Celsius same as Kevlar®)
- High strength and good abrasion resistance
- Resistant to acids, weak alkalis, organic solvents, sea water, steam
- Poor UV resistance

