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List of Material Rope Courses

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SEIL- UND HEBETECHNIK
GMBH

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Innovative rope systems for high rope courses

Moving means to set things in motion, to unfold dynamics, to create things. For us in the PFEIFER group, to move is very specific: it means that our products from the rope, lifting and lashing technology assume a central role in rides, high rope courses, snow groomers and in the stage technology.

Moving also means for us that we don't sit still, we study, we learn, we apply and we invest. There is a reason why the PFEIFER group is one of Europe's leading companies in Structures, Wire Rope Technology, Rope and Lifting and Building Systems.

We get things going – special requests by customers, efficient and practical solutions, technical expertise, quality and dependable service – these are the benefits for you as a partner.



Gerhard Pfeifer,
President of the PFEIFER group



The PFEIFER group is one of Europe's leading companies in Structures, Wire Rope Technology, Rope and Lifting and Building Systems. The headquarters are located in Memmingen, Germany. Numerous service centres and subsidiaries worldwide are responsible for sales and distribution.

PFEIFER products can be found in rope courses as well. The more different the requirements the more individual are our solutions. Create your sports grounds and -machines with special products for a safety and economical usage. As a well-known manufacturer and dealer PFEIFER offers a large selection of wire ropes, rope end terminations, suitable accessories as well as diverse fabrication, competent consulting and reliable service. With our extensive stock we are able to select the right rope for your application.

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**Reduce every risk and trust in our
longtime experience in choosing the
right ropes!**

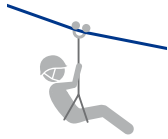
*Please let our
experts advise you!*

→ Further information can be found under
Products & Services at the PFEIFER web portal:
www.pfeifer.info/leisure-applications



General information

Rope requirements in high rope courses



Zip-Line ropes

Zip-Line-ropes are subject of high-demands due to their area of application. In addition to high-breaking forces and resistance against environmental influences like rain or sun, Zip-Line-ropes show a low rolling noise by passing the sheave.



Life-Line ropes

Lateral pressure stability and low-tension construction are essential characteristics of life-line ropes. So these ropes achieve robustness and resistance to guarantee safety and solidity after long time.

PFEIFER added value advantage



- Complete documentation and traceability
- High availability
- Attractive price
- Own material test centre
- Comprehensive stock

PFEIFER analyses all properties of wire ropes and applied materials with extensive tests to choose the right wire rope for your application and to optimize the lifetime in your equipment.

Reduce every risk and trust in our longtime experience in choosing the right ropes!





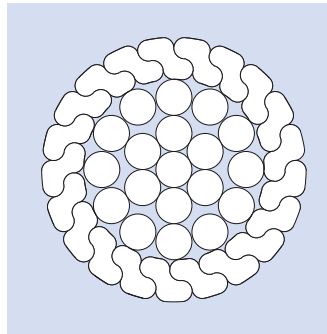
Special-Zip-Line Rope

Fully locked coil ropes

Technical data

Average fill factor	0,811
average spinning loss factor	0,919
E-module (10-30% F_{min})	160 kN/mm ²
E-module (10-30% F_{min}) tolerance	± 10 kN/mm ²
Finish	GALFAN coated
Rope diameter tolerance	0 / + 3%

Diameter range from 16 – 26	Number of load-bearing wires in the external strands	RCN according to ISO 4309
	—	



Product benefits

- Higher breaking forces
- More resistant

Sample schematic of rope construction used for representative purposes only. Actual construction dependent upon rope diameter.

WARNING: Never use with a swivel – failure to comply may result in serious damages and injuries

Nominal rope Ø	Weight approx.	Minimum breaking force F_{min}	Minimum breaking force F_{min}
mm	kg/100 m	1570 kN	1770 kN
16	149	—	272

Other rope diameters and constructions on enquiry.

Please refer to our operating manual stranded ropes! Available at www.pfeifer.info/manual-strand-ropes

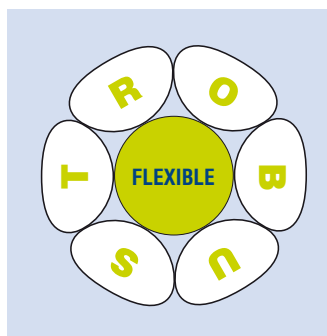
P 355

Round strand rope, non rotation resistant

Technical data

Average fill factor	0,76
average spinning loss factor	0,83
E-module (10 – 30 % F_{min})	94 kN/mm ²
E-module (10 – 30 % F_{min}) tolerance	± 7 kN/mm ²
Core	Steel core
Lay type	Ordinary lay
Lay direction	Right hand
Compacting	Compacted rope – therefore particularly resistance to crushing and abrasion
Finish	Galvanized
Rope diameter tolerance	+2/+4%

Diameter range from 8 – 24	Number of load-bearing wires in the external strands	RCN according to ISO 4309
	156	06



Product benefits

- Robust
- Low rolling noise when used as Zip-line

Sample schematic of rope construction used for representative purposes only. Actual construction dependent upon rope diameter.

WARNING: Never use with a swivel – failure to comply may result in serious damages and injuries

Nominal rope Ø	Weight approx.	Minimum breaking force F_{min}
mm	kg/100 m	1960 kN
10	55,4	99,29
12	76,4	140,75

Other rope diameters and constructions on enquiry.

Please refer to our operating manual stranded ropes! Available at www.pfeifer.info/manual-strand-ropes

Life-Line ropes

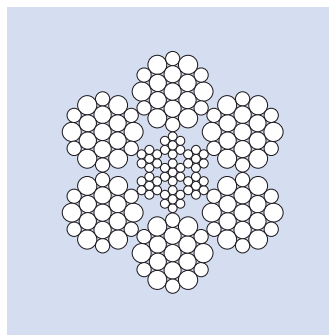


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Norm-Rundlitzenseile

Technische Daten

Mittlerer Füllfaktor	0,571	
Seileinlage	Stahleinlage	
Schlagart	Kreuzschlag	
Schlagrichtung	rechtsgängig	
Verdichtung	unverdichtet	
Drahtoberfläche	verzinkt	
Mittlerer Faktor für metallischen Querschnitt C	0,449	
Durchmesserbereich von 6 – 60	Anzahl der tragenden Drähte in den Außenlitzten	RCN nach ISO 4309
	114	04



Product benefits

- Low-tension
- Resistant to lateral pressure

Beispielhafte, schematische Darstellung. Der tatsächliche Seilaufbau ist abhängig vom Seildurchmesser.

Seil-Nenn-Ø	Gewicht ca.	Mindestbruchkraft F_{min} 1770	Mindestbruchkraft F_{min} 1960	Mindestbruchkraft F_{min} 2160
mm	kg/100 m	kN	kN	kN
10	40	63	69,8	76,9
12	57,6	90,7	100	111

Andere Seildurchmesser und Ausführungen auf Anfrage

Bitte beachten Sie unsere Betriebsanleitung für Litzenseile! Verfügbar unter www.pfeifer.info/betriebsanleitung-litzenseile

Rope accessories



Thimble

- Similar to DIN3090
- Form: BF
- Version: galvanized

Rope Ø	Reference no.
10 mm	111391
12 mm	111392



Wire rope clamps

- Similar to EN 13411-5 Type A
- Version: galvanized

Nominal size	Reference no.
10 mm	280300
12 mm	280298

Type B on request



Wedge clamp

- Wedge chamber: steel St. 50
- Wedge: steel, quenched and tempered
- Pressure stick: steel
- Surface-hardened
- Painted black

Loading capacity	max. Rope Ø	Reference no.
10 kN	5 – 10 mm	198559
20 kN	10,5 – 14 mm	198561

Rope service and rope handling



Rope measurement

- Groove gauges
- Caliper gauges
- Sets

Use our special measurement devices from the rope specialist to reduce costs by extending the lifetime.

Based on our long-term practical experience of rope drive inspection, we created a measurement devices program. These measurement devices are used by our rope experts for each inspection and thereby approved for general use.



Tools for working on ropes

- Crimping pliers
- Wire rope cutter

So that you can also easily carry out minor work on ropes, PFEIFER offers you a selection of different tools for working on ropes.



Rope assembly aids

- Winding blocks
- Rope tensioning clamps
- Cable grips

PFEIFER rope assembly aids assist you reliably in the attachment and replacement of your steel ropes.



Innovative packaging solutions

- Reels
- Stand for reels

PFEIFER-reels and PFEIFER-stands for reels – the perfect combination for your ropes:

- Optimized packaging sizes
- Simplified transport – to be taken by forklift
- Stands for reels are gentle for reels and ropes
- Prevention of transport mistakes and resulting damages
- Heat treatment according to ISPM 15

PFEIFER – at your service all over the world



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