

ELEVATOR ROPES



GOING UP IS OUR MOTTO.



LEADING ROPE
TECHNOLOGY
SINCE 1896



Through our three production facilities located in Switzerland, the U.S.A. and China, we produce elevator ropes to service the global market. Over decades, our ropes have transported millions of passengers in a secure and comfortable way. It is especially in high-rise high speed installations that BRUGG LIFTING elevator ropes show their excellent performance, ensuring smoothness of ride, above-average lifetime and high economic efficiency.

The development of new and innovative products, the continuous improvement of existing products as well as the optimization of production processes ensures, that customers of BRUGG LIFTING can demand and expect consistently high product quality and optimum performance.

For additional flexibility and innovation BRUGG LIFTING also produce hoist and governor ropes in compliance with individual customer specifications.

Working with our global logistics and distribution partners ensures, that our products are correctly packaged, labeled and available for our customers everywhere at the right place and time every time.

Our performance parameters are convincing. That's why international elevator engineering groups to local small and medium-sized companies rely on BRUGG LIFTING elevator ropes.



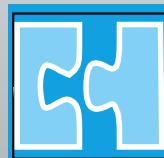


SERVICES



System Provider

We offer to you a wide assortment of elevator ropes, accessories and tools to meet all of your requirements. We supply you with complete solutions or individually combined components as individual or pre-assembled parts to suit your needs.



Customized

Our wide assortment of elevator ropes, accessories and tools provides nearly all products required for your applications. If none of the articles depicted in the catalog solves your problem, or if your elevator is to meet specific requirements, we will be glad to advise you and to develop customized solutions together with you.



Availability

Due to our three production facilities located in Switzerland and China, as well as due to our global network of warehouse locations, our products will be delivered to your factory or your construction site within a very short time. Please contact us if you have any questions regarding deadlines, individual deliveries and specific projects.



Express Service

In urgent cases we provide the required materials ex works within the hour and ship it to you as quickly as possible by courier all over the world.



International Standards

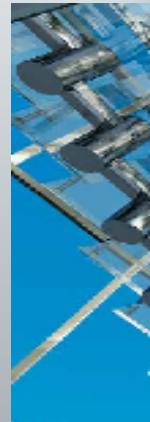
All of our products meet the valid international standards.

BRUGG LIFTING is certified according to ISO 9001:2008 and ISO 14001:2004.



Training/Specialist Workshops

Our aim is to ensure that you will enjoy an optimal use and an increase service life of your elevator ropes. Make use of our offering of qualified and customized training units for your staff.





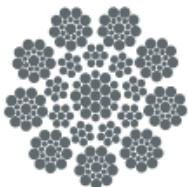
ISO 9001Certified



Going up is our Motto	2
Services	4
Ropes at Glance	6
Rope Comparision	8
Rope Comparision . i-Line	9
Elevator Ropes.Accessories	10
Hoist Ropes	
HRS	12
DP9	13
SCX9	14
MCX9	15
8x19	16
TSR	17
Compensation Ropes	
8x19.8x25	18
6x25	19
Governor Ropes	
6x19.8x19	20
Designations and Classifications	21
APAG Threaded Swaged Sockets	22
Eyelet Bolt with Swaged Thimble	23
Wedge Socket Symmetrical	24
Wedge Socket ASymmetrical	26
Elastomer Buffers	28
Spring	29
Door Closing Rope Flex . Rope clamp	31
RPM Rope Performance Measurement Device	31
GDC Grove Depth Comparator	33
RWG Rope Wear Gauge	33
VT-Lube Lubricant	34
Rope Cutters	34
Packaging	35
Support	38
Contacts	39

ROPES AT A GLANCE

HOIST ROPES



- Steel Core Rope
- 9 Strands
- Parallel Lay

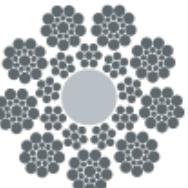
HRS

125,000
N/mm²
 1.81×10^6
psi

0.104
%
1.2
in/100ft

0.13
%
1.6
in/100ft

<425
m
<1400
ft



- Wire Rope with Polypropylene Fiber Core
- 9 Strands
- Parallel Lay

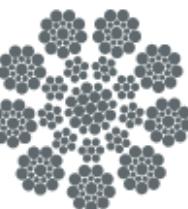
DP9

115,000
N/mm²
 1.67×10^6
psi

0.112
%
1.35
in/100ft

0.25
%
3
in/100ft

<250
m
<800
ft



- Steel Core Rope
- 9 Strands
- Separate Lay

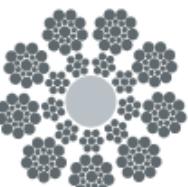
SCX9

120,000
N/mm²
 17.4×10^6
psi

0.108
%
1.3
in/100ft

0.16
%
2
in/100ft

<325
m
<1000
ft



- Wire Rope with Polypropylene Fiber Core
- 9 Strands
- Parallel Lay

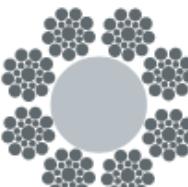
MCX9

110,000
N/mm²
 16×10^6
psi

0.120
%
1.5
in/100ft

0.30
%
4
in/100ft

<200
m
<650
ft



- Wire Rope with Sisal Fiber Core
- 8 Strands

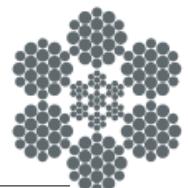
8X19

110,000
N/mm²
 16×10^6
psi

0.122
%
1.5
in/100ft

0.26
%
4
in/100ft

<200
m
<650
ft



- Wire Rope with Steel Core Rope
- 6 Strands
- Zinc-Plated
- Separate Lay

TSR

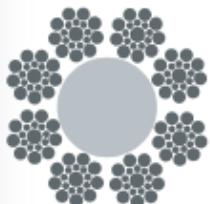
125,000
N/mm²
 18.1×10^6
psi

0.104
%
1.25
in/100ft

0.5
%
6.0
in/100ft

<175
m
<550
ft

COMPENSATION ROPES



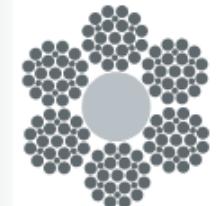
- Wire Rope with
Plypropylene Core
- 8 Strands .Seale

8x19



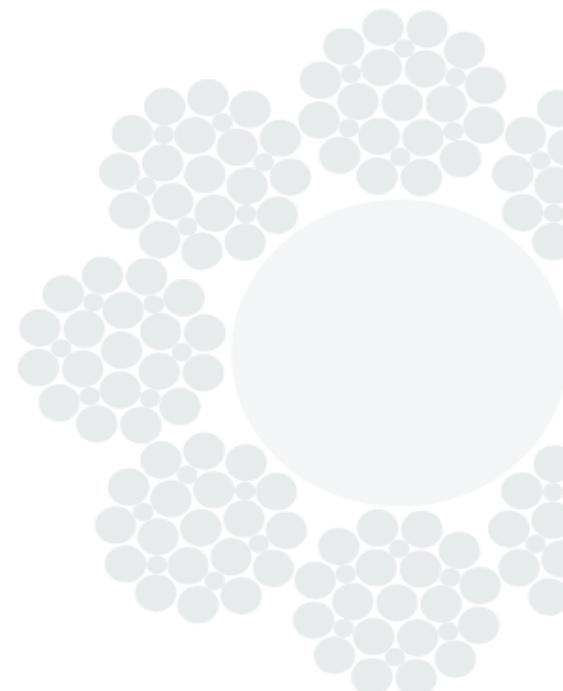
- Wire Rope with
Plypropylene Core
- 8 Strands .Seale

8x25

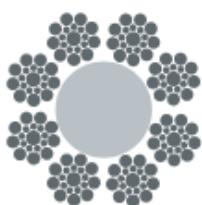


- Wire Rope with
Plypropylene Core
- 8 Strands .Seale

6x25



GOVERNOR ROPES



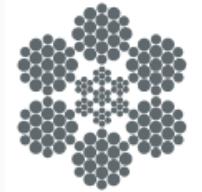
- Wire Rope with
SisalFiber Core
- 8 Strands

6x19

105.000
N/mm²
15.2x10⁶
psi

0.084
%
1.0
in/100ft

0.22
%
2.64
in/100ft



- Wire Rope with
Steel Core Rope
- 6 Strands
- Zinc-Plated
- Separate Lay

8x19

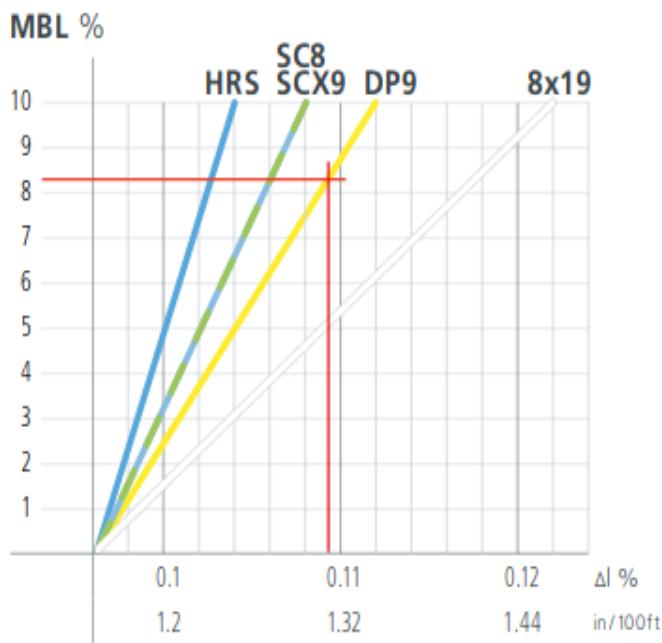
125.,000
N/mm²
18.1x10⁶
psi

0.104
%
1.25
in/100ft

0.5
%
6.0
in/100ft

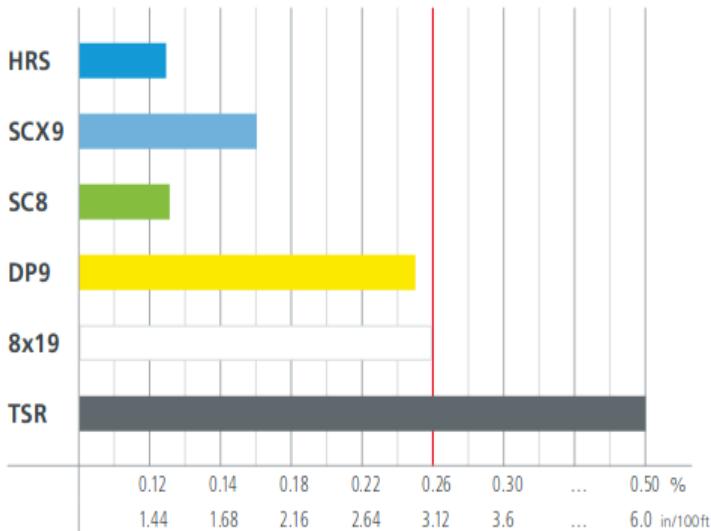
ROPE COMPARISON

Elastic Elongation



- Elongation of the rope occurring whenever a rope is loaded. When the load is removed, the rope is restored to its initial state
- Example: With a DP9 rope, a load of 8.3 % of the minimum breaking force results in an elastic elongation of ca. 0.109 % of the length of the rope (with a length of 100 m, this is equivalent to 109 mm)
- Elevator ropes from BRUGG LIFTING are especially characterized by a very low elastic elongation

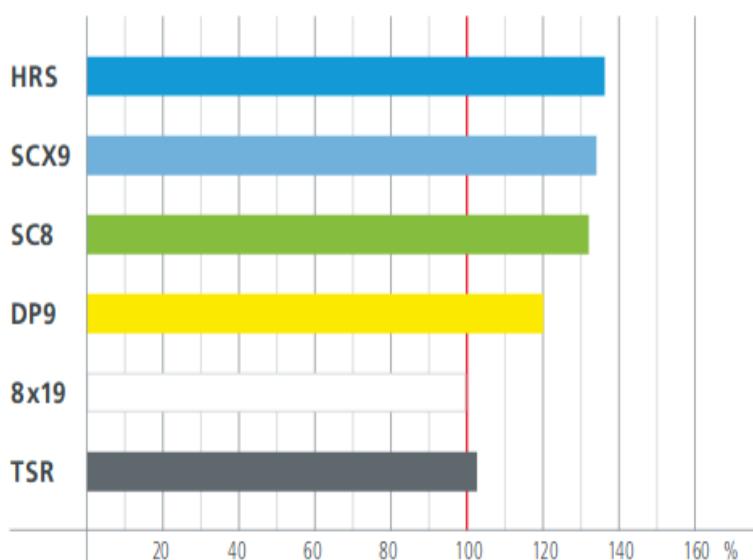
Permanent Elongation



- Elongation of the rope occurring until the rope has settled as a result of operation. This elongation is expected to occur at about 2% of the estimated rope service life
- The graphic compares the permanent elongation of the different types of suspension ropes
- Elevator ropes from BRUGG LIFTING are especially characterized by a very low permanent elongation

ROPE COMPARISON. iLINE

Minimum Breaking Load



- MBL represents the minimum load that can be applied to a rope before it breakse
- The graphic compares the minimum breaking load of the different types of suspension ropes
- Reference: 100 % = 8x19 suspension rope with natural fiber core

iLine & Color Coding

Correctly installed hoist ropes increase the service life and the safety. They improve the riding comfort and avoid downtimes. Independent of the construction and the producer, every hoist rope is susceptible to untwisting during the installation.

With the help of the i-LINE, which is applied to our hoist ropes by BRUGG LIFTING already during the production, untwisted hoist ropes can be detected easily and fast, located and adjusted correctly.

Advantages of the iLINE

- simple and correct installation
- safe installation aid
- optimizes product performance
- colour code for the identification of the rope type

HRS

SCX9

SC8

DP9

8x19

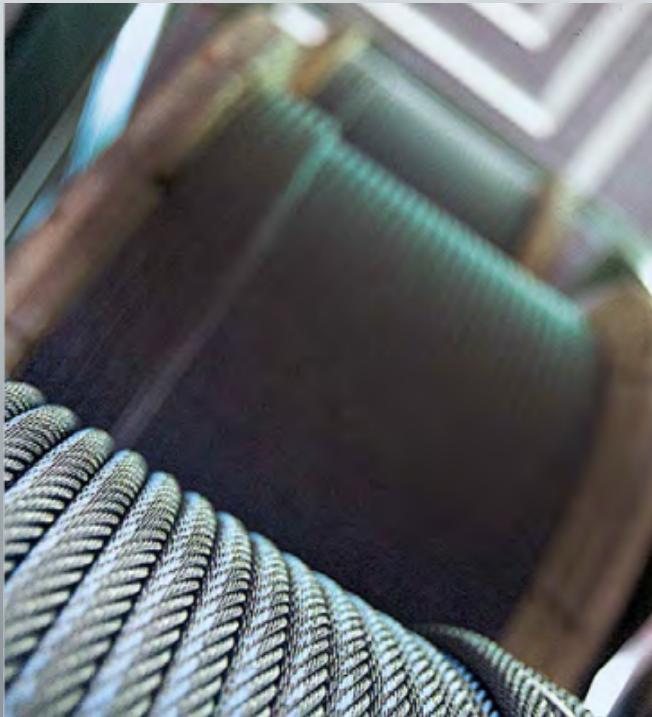


ELEVATOR ROPES . ACCESSORIES

BRUGG LIFTING elevator ropes are a symbol of the highest quality.

To ensure that our customers can rely on the consistent excellent quality of our products, we control all our manufacturing processes very tightly and continuously validate the quality of our products with a sophisticated system. Already the wire material is selected by us with the greatest care. We purchase our raw materials exclusively from suppliers that permanently meet our high standards. Further essential factors for the high product quality are modern production technologies and especially the experience of many years of our qualified skilled workers. In order to guarantee a complete production quality we use the most modern measuring and monitoring techniques in our production lines. After that all our products are subjected to fatigue tests and property analysis with statistical evaluation at our in-house test facility.

As a customer you benefit from the products that stand out due to the very best values concerning elongation, breaking load, smoothness of ride and service life. Thus BRUGG LIFTING elevator ropes symbolize the highest economic value and a cost performance ratio that convinces again and again.

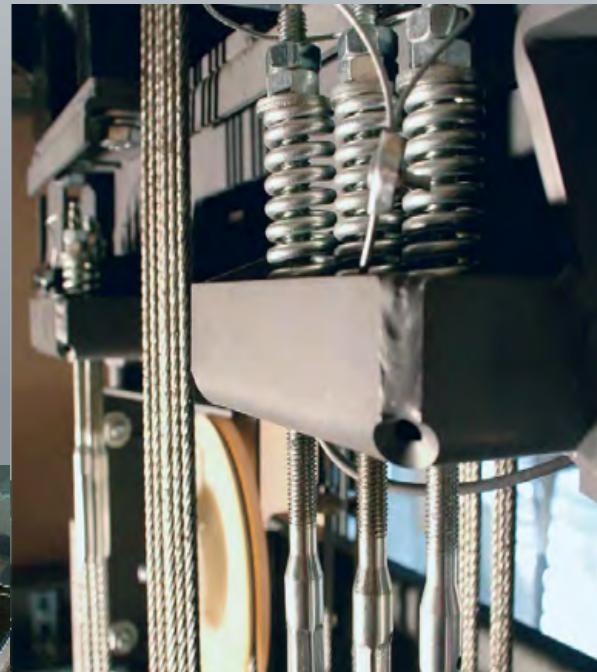


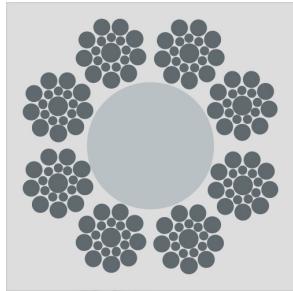


As system supplier we have the corresponding end terminations, buffer systems and accessories for all elevator ropes in our range of products.

Most items are available from inventory, allowing short delivery times and state of the art logistics.

We are specialized in the development and manufacture of threaded swaged end fittings and are also able to provide customized end terminations.



**HRS****HOIST ROPES****Steel Core Rope, 9 Strands, Parallel Lay**

For highest demands on breaking force, elongation and number of trips. Recommended for round grooves with an undercut angle of < 85.

125,000
N/mm²
 1.81×10^6
psi

E-Module**

0.104
%
1.2
in/100ft

Elastic elongation

0.13
%
1.6
in/100ft

Permanent Elongation

<425
m
<1400
ft

Lifting height*

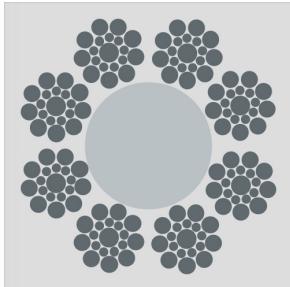
item number	rope-@		breaking load min.		weight		construction
	mm	in	kN	lbs	kg/100m	lb/ft	
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10702	9.0	-	56.3	12.657	35.5	0.239	9x19S-PWRC 1570 U sZ.(RRL)
10705	10.0	-	68.0	15.287	42.8	0.288	9x19S-PWRC 1570 U sZ.(RRL)
10708	11.0	7/16	83.4	18.749	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)

Further nominal strengths and/or diameters (including imperial dimensions) on request.

Rope diameter-tolerances according to EN12385-5 / ISO 4344.

DP9

HOIST ROPES



Wire Rope with Polypropylene Fiber Core, 9 Strands, Parallel Lay

For high demands on breaking force, elongation and number of trips.
Recommended for conical grooves and undercut round grooves.

115.000
N/mm²
1.67x10⁶
psi

0.112
%
1.35
in/100ft

0.25
%
3
in/100ft

<250
m
<800
ft

E-Module**

Elastic
elongation

Permenant
Elongation

Lifting height*

item number	rope-@		breaking load		weight		construction
	mm	in	kN	min.	lbs	kg/100m	lb/ft
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10702	9.0	-	56.3	12.657	35.5	0.239	9x19S-PWRC 1570 U sZ.(RRL)
10705	10.0	-	68.0	15.287	42.8	0.288	9x19S-PWRC 1570 U sZ.(RRL)
10708	11.0	7/16	83.4	18.749	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)

Further nominal strengths and/or diameters (including imperial dimensions) on request.

Rope diameter-tolerances according to EN12385-5 / ISO 4344.

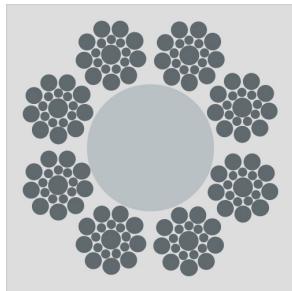
* The defined lifting height is based on an elevator with a 1:1 suspension and only indicative.

It does not replace the exact calculation according to the system specifications.

**E-Module tested according to DIN 18800. The specified E-Module is tested with 30-40% of MBL.

SCX9

HOIST ROPES



Steel Core Rope, 9 Strands, Parallel Lay

For highest demands on breaking force, elongation and number of trips, also under difficult installation conditions.

Recommended for round grooves with an undercut angle of <= 85.

125,000 N/mm ² 1.81x10⁶ psi	0.104 % 1.2 in/100ft	0.13 % 1.6 in/100ft	<425 m <1400 ft
E-Module**	Elastic elongation	Permanent Elongation	Lifting height*

item number	rope-@		breaking load min.		weight		construction
	mm	in	kN	lbs	kg/100m	lb/ft	
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10702	9.0	-	56.3	12.657	35.5	0.239	9x19S-PWRC 1570 U sZ.(RRL)
10705	10.0	-	68.0	15.287	42.8	0.288	9x19S-PWRC 1570 U sZ.(RRL)
10708	11.0	7/16	83.4	18.749	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)

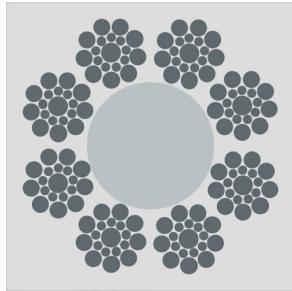
Further nominal strengths and/or diameters (including imperial dimensions) on request.

Rope diameter-tolerances according to EN12385-5 / ISO 4344.



MCX9

HOIST ROPES



Steel Core Rope, 9 Strands, Parallel Lay

For highest demands on breaking force, elongation and number of trips.

Recommended for round grooves with an undercut angle of < 85°.

110.000 N/mm ² 16x10⁶ psi	0.120 % 1.5 in/100ft	0.30 % 4 in/100ft	<200 m <650 ft
E-Module**	Elastic elongation	Permanent Elongation	Lifting height*

item number	rope-@		breaking load		weight		construction
	mm	in	kN	min.	lbs	kg/100m	lb/ft
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10702	9.0	-	56.3	12.657	35.5	0.239	9x19S-PWRC 1570 U sZ.(RRL)
10705	10.0	-	68.0	15.287	42.8	0.288	9x19S-PWRC 1570 U sZ.(RRL)
10708	11.0	7/16	83.4	18.749	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)

Further nominal strengths and/or diameters (including imperial dimensions) on request.

Rope diameter-tolerances according to EN12385-5 / ISO 4344.

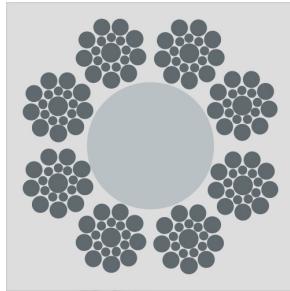
* The defined lifting height is based on an elevator with a 1:1 suspension and only indicative.

It does not replace the exact calculation according to the system specifications.

**E-Module tested according to DIN 18800. The specified E-Module is tested with 30-40% of MBL.

8x19

HOIST ROPES



Wire Rope with Sisal Fiber Core, 8 Strands

For high demands on elongation also under difficult installation conditions.

Recommended for all groove shapes.

125,000
N/mm²
1.81x10⁶
psi

0.104
%
1.2
in/100ft

0.13
%
1.6
in/100ft

<425
m
<1400
ft

E-Module**

Elastic
elongation

Permenant
Elongation

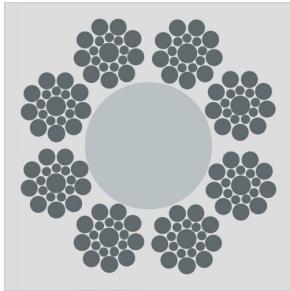
Lifting height*

item number	rope-@		breaking load min.		weight		construction
	mm	in	kN	lbs	kg/100m	lb/ft	
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10702	9.0	-	56.3	12.657	35.5	0.239	9x19S-PWRC 1570 U sZ.(RRL)
10705	10.0	-	68.0	15.287	42.8	0.288	9x19S-PWRC 1570 U sZ.(RRL)
10708	11.0	7/16	83.4	18.749	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)

Further nominal strengths and/or diameters (including imperial dimensions) on request.

Rope diameter-tolerances according to EN12385-5 / ISO 4344.

HOIST ROPES

**Steel Core Rope, 6 Strands, Zinc-Plated, Separate Lay**

For high demands on small traction sheaves.

Suitable for conical grooves of => 45..

125,000
N/mm²
1.81x10⁶
psi

0.104
%
1.2
in/100ft

0.13
%
1.6
in/100ft

<425
m
<1400
ft

E-Module**

Elastic
elongation

Permenant
Elongation

Lifting height*

item number	rope-@		breaking load min.		weight		construction
	mm	in	kN	lbs	kg/100m	lb/ft	
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)

Further nominal strengths and/or diameters (including imperial dimensions) on request.

Rope diameter-tolerances according to EN12385-5 / ISO 4344.

* The defined lifting height is based on an elevator with a 1:1 suspension and only indicative.

It does not replace the exact calculation according to the system specifications.

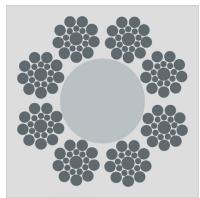
**E-Module tested according to DIN 18800. The specified E-Module is tested with 30-40% of MBL.

8x19

COMPONASION ROPES

Wire Rope with Polypropylene Core, 8 Strands, Seale

Compensation ropes are used to balance the weight of hoist ropes and travelling cables in an elevator.



item number	rope-@		breaking load		weight		construction
	mm	in	kN	lbs	kg/100m	lb/ft	
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)

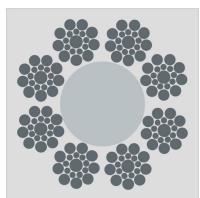
Further nominal strengths and/or diameters (including imperial dimensions) on request.

Rope diameter-tolerances according to EN12385-5 / ISO 4344.

8x25

Wire Rope with Polypropylene Core, 8 Strands, Filler

Compensation ropes are used to balance the weight of hoist ropes and travelling cables in an elevator.



item number	rope-@		breaking load		weight		construction
	mm	in	kN	lbs	kg/100m	lb/ft	
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)

Further nominal strengths and/or diameters (including imperial dimensions) on request.

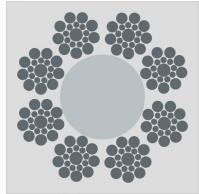
Rope diameter-tolerances according to EN12385-5 / ISO 4344.



6x25

Wire Rope with Polypropylene Core, 6 Strands, Filler

Compensation ropes are used to balance the weight of hoist ropes and travelling cables in an elevator.



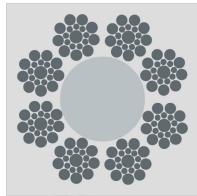
item number	rope-@		breaking load		weight		construction
	mm	in	kN	lbs	kg/100m	lb/ft	
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)

Further nominal strengths and/or diameters (including imperial dimensions) on request.

Rope diameter-tolerances according to EN12385-5 / ISO 4344.

6x19**GOVERNOR ROPES****Wire Rope with Polypropylene Core, 6 Strands, Seale**

Compensation ropes are used to balance the weight of hoist ropes and travelling cables in an elevator.



125,000
N/mm²
1.81x10⁶
psi

0.104
%
1.2
in/100ft

0.13
%
1.6
in/100ft

E-Module**

Elastic
elongation

Permenant
Elongation

item number	rope-@		breaking load		weight		construction
	mm	in	kN	min. lbs	kg/100m	lb/ft	
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)

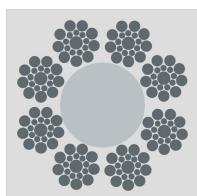
8x19

Further nominal strengths and/or diameters (including imperial dimensions) on request.

Rope diameter-tolerances according to EN12385-5 / ISO 4344.

Wire Rope with Polypropylene Core, 8 Strands, Seale

Compensation ropes are used to balance the weight of hoist ropes and travelling cables in an elevator.



125,000
N/mm²
1.81x10⁶
psi

0.104
%
1.2
in/100ft

0.13
%
1.6
in/100ft

E-Module**

Elastic
elongation

Permenant
Elongation

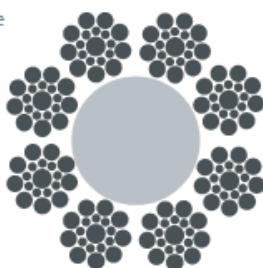
item number	rope-@		breaking load		weight		construction
	mm	in	kN	min. lbs	kg/100m	lb/ft	
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)
10699	8.0	5/16	42.7	9.599	26.9	0.181	9x19S-PWRC 1570 U sZ.(RRL)

Further nominal strengths and/or diameters (including imperial dimensions) on request.

Rope diameter-tolerances according to EN12385-5 / ISO 4344.

ABBREVIATED DESIGNATIONS

Example



12 8 x19S-NFC 1370/1770 U sZ

A B C D E F G

Designtion and Classification of wire ropes(EN 12385-2 formerly ISO 17893)

A Rope nominal Diameter in mm
(see coresponding table for each)

B **Rope Construction**

C **Construction and Lay Direction**

-	simple lay strand	
	example for strand construction	7 d.h.(1-6)
s	seale parallel lay	
	example for strand construction	19S d.h. (1-9-9)
W	Warrington parallel lay	
	example for strand construction	19W d.h. (1-6-6+6)
F	Filler parallel lay	
	example for strand construction	21F d.h. (1-5-5F-10)
		25F d.h. (1-6-6F-12)
WS	combined (warrington seale) parallel lay	
	example for strand construction	31WS d.h. (1-6-6+6-12)

D **Construction of Core**

Single layer rope with fibre core FC	
NFC	natural fibre core
SFC	synthetic fibre core

Single layer rope with fibre core WC	
WSC	wire strand core
IWRC	independant wire rope core

Rope with parallel lay	
PWRC	parallel wire rope core

E **Nominal Tensile Grade of wires in N/mm²**

F **Surface Finish of Wires**

U	bright
B	zinc coated (classB)

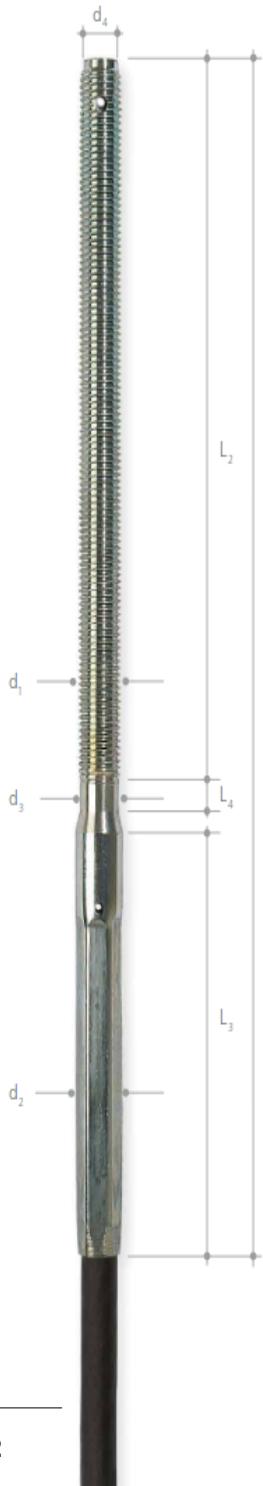
G **Type and Direction of Lay**

z	right lay (strand)
s	left lay (strand)
Z	right lay (rope)
S	left lay (rope)
sZ(RRL)	regular lay,right hand
zS(RLL)	regular lay,left-hand

APAG Threaded Swaged Sockets

Product Data

- APAG-end connections are TV tested and approved according to TRA EN81.
 - APAG-end connections transmits 80% of minimal breaking load of traction rope



Advantages

- simple, fast and safe end termination
 - shortened installation time, since no mounting of end connections by customers
 - no special tools required
 - the compact type enables a very tight arrangement of ropes and parallel running ropes
 - simple securing against rotation
 - position of pilot hole for rope end
 - quiet operation because there are no individual parts



EYELET BOLT with Swaged Thimble

Product Data

- eyelet bolt steel St 37,zinc-plated

Advantages

- simple, fast and safe end terminations
 - no special tools required
 - simple securing against twisting



Other sizes available upon request.



WEDGE SOCKET Symmetrical [EN 13411-7] with Eyelet Bolt [DIN 444]

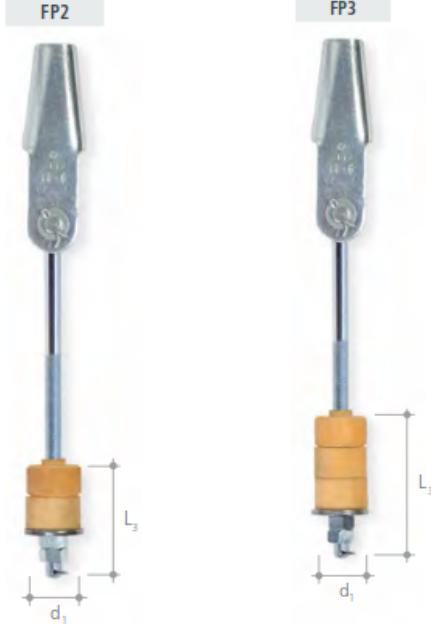
Product Data

- wedge socket welded, steel zinc-plated
- incl. wedge, bolt and safety pins pre-assembled
- wedge socket transmits 80 % of minimal breaking load of traction rope or governor rope
- eyelet bolt welded, steel zinc-plated
- in connection with the wedge socket the eyelet bolt transmits 80 % of the minimal breaking load of the elevator rope
- for mounting and operation the explanations in appendix B of the norm EN 13411-7 are valid

Advantages

- can be assembled safely and simply on-site
- springs, buffers and other accessories can be mounted individually





item number	rope-@	d	d1	L1	L2	L3
A		mm				
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
AM						
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
D						
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
FP						
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
FP2						
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
FP3						
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	

Other sizes available upon request.
You will find the item numbers for all combination possibilities in the price list.



WEDGE SOCKET Asymmetrical [EN 13411-6] with Eyelet Bolt [DIN 444]

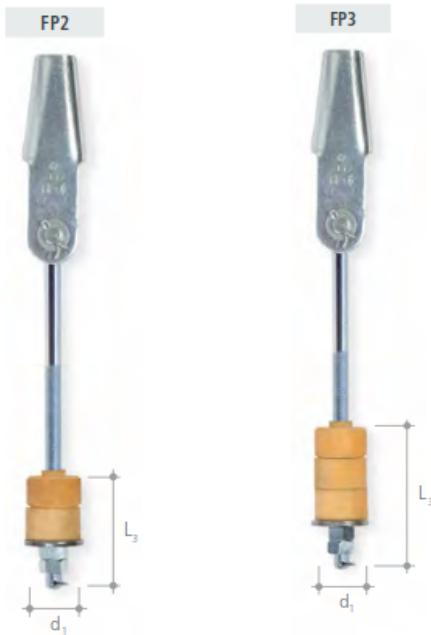
Product Data

- wedge socket welded, steel zinc-plated
- incl. wedge, bolt and safety pins pre-assembled
- eyelet bolt welded, steel zinc-plated
- in connection with the wedge socket the eyelet bolt transmits 80 % of the minimal breaking load of the traction - or governor rope

Advantages

- can be assembled safely and simply on-site
- springs, buffers and other accessories can be mounted individually
- for mounting and operation the explanations in appendix B of the norm EN 13411-6 are valid





item number	rope-@	d	d1	L1	L2	L3
A		mm				
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
AM						
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
D						
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
FP						
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
FP2						
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
FP3						
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	
64109	5.0	6.5	M10	265	180	

*The head of the screw is not according to DIN 444. Other sizes available upon request.
You will find the item numbers for all combination possibilities in the price list.



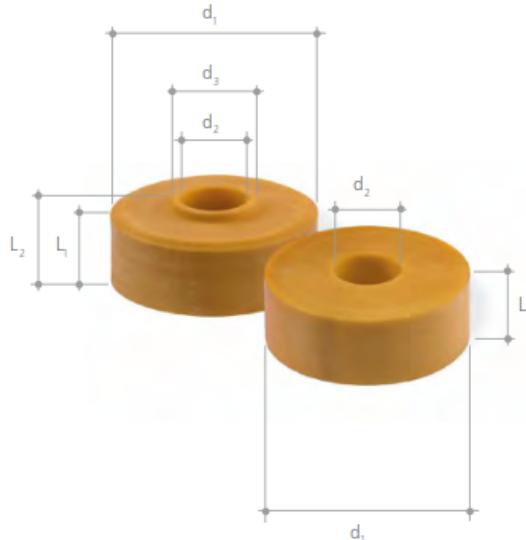
ELASTOMER BUFFERS for Rope Attachment

Product Data

- polyurethane elastomer with cells
- Suitable for APAG, eyelet boly,wedge socket symmetrical and asymmetrical

Advantages

- excellent buffering properties at minimum overall height
- transverse elongation
- also applicable on the counterweight side as rope length compensation
- grese- and resistant



item number	for tread	d1	d2	d3	L1	L2	max. stat. weight	max. pressure force	
		mm	dimensions in mm					kg	kN
77658	M12	50	13	22	28	28	170	6.867	
77658	M12	50	13	22	28	28	170	6.867	
77658	M12	50	13	22	28	28	170	6.867	
77658	M12	50	13	22	28	28	170	6.867	
77658	M12	50	13	22	28	28	170	6.867	
77658	M12	50	13	22	28	28	170	6.867	
77658	M12	50	13	22	28	28	170	6.867	

* with collar. If not expressly desired differently, we supply rope attachments with a buffer always with a collar. in case of several buffers always the top one with collar.



SPRING

Product Data

steel spring, bright
cylindrical type
suitable for APAG, eyelet bolt, wedge socket
symmetrical and asymmetrical



Advantages

improved riding comfort

item number	for tread	d1	d2	d3	L1	spring rate	spring force
	mm	dimensions in mm					N/mm ² kN
77658	M12	50	13	22	28	33	170
77658	M12	50	13	22	28	33	170
77658	M12	50	13	22	28	33	170
77658	M12	50	13	22	28	33	170
77658	M12	50	13	22	28	33	170
on request	M12	50	13	22	28	33	170
substitute for 64469 of							
77658	M12	60470	13	22	28	33	170
77658	M12	50	13	22	28	33	170



DOOR CLOSING ROPE SETS

TSS-Rope Set

- 1 FLEX door closing rope, 3500 mm length, with one-sided pressed APAG - external thread to adjust the correct rope tension
- 1 clamping ring to fasten a rope end at a fixed point
- 1 rope clamp and 1 thimble to mount the loose rope end

One packaging unit contains 5 rope sets each.

item number	rope-@
	mm
77720	3.0
77721	4.0

SMZ-Rope Set

- 1 thread for easy installation DO-IT-LINE to adjust the correct rope tension
- 1 clamping ring to fasten a rope end at a fixed point
- 1 rope clamp and 1 thimble to mount the loose rope end

One packaging unit contains 5 rope sets each.

The SMZ-rope set does not contain a door closing rope.
This can be ordered separately.

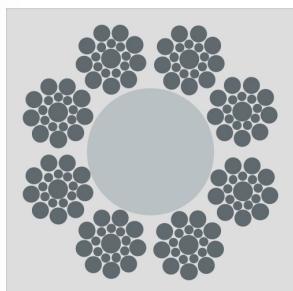
Advantages

- fast and simple installation
- suitable for most elevator door-closing systems
- reduces downtimes
- Complete set - all parts are included
- not much warehousing required

item number	rope-@
	mm
77744	3.0
77745	4.0



DOOR CLOSING ROPE FLEX. ROPE CLAMP



Steel Core Rope, 6 Strands, Separate Lay

Special design for door drives. Due to very fine strands especially suitable for deflector sheaves. Excellent service life with regard to high bending load.

110.000	0.138	0.25
N/mm ²	%	%
E-Module**	Elastic elongation	Permanent elongation

item number	rope- @	breaking load	weight	construction
	mm	kN	kg/100m	
10699	6.0	42.7	26.9	9x19S-PWRC 1570 UsZ.(RRL)
10699	6.0	42.7	26.9	9x19S-PWRC 1570 UsZ.(RRL)
10699	6.0	42.7	26.9	9x19S-PWRC 1570 UsZ.(RRL)

Rope Clamp

- zinc coated
- for mounting and operation the explanations of the norm EN 13411-5 are valid

Advantages

- can be assembled safely and simply on-site



item number	rope- @*	d	L1	L2	max. required torque	rope clamp/ loop
	dimensions in mm					Nm
49459	5.0	M5	25	12	2.0	3
49459	5.0	M5	25	12	2.0	3
49459	5.0	M5	25	12	2.0	3
49459	5.0	M5	25	12	2.0	3
49459	5.0	M5	25	12	2.0	3
49459	5.0	M5	25	12	2.0	3
49459	5.0	M5	25	12	2.0	3
49459	5.0	M5	25	12	2.0	3
49459	5.0	M5	25	12	2.0	3

* Corresponds to the maximum rope diameter.
For interim sizes of the rope diameter the next-largest clamp size is to be used



RPM Rope Performance Measurement Device



The RPM Rope performance measurement device makes it easier for you to check the rope tension during the installation, the inspection and the maintenance of elevators.

Advantages

- quick, easy and precise determination of rope diameter and tension comparison and measurement of the rope tensions e.g. within a rope set determination of the weight of cabin, counterweights etc.
- easy documentation, query and comparison of the last 94 measuring results through storage in the device
- high precision of rope tension measurement of + / - 5%
- and diameter measurement of + / - 1%
- versatile through battery-supplied operation (1 x 9 V battery)
- handy device: just 330 x 230 x 50 mm (12.9 x 9.1 x 2.0 in), weight only 2.6 kg (5.73 lb)

keep the tension under control

er properties at minimum overall height
transverse elongation
also applicable on the counterweight side as rope length compensation
grease- and oil resistant

item number	rope-@	
	mm	in
70020	8-22	5/16-7/16



GDC Grove Depth Comparator

RWG Rope Wear Gauge

GDC Groove Depth Comparator

The GDC enables you to precisely measure and compare sheave groove variations. It serves to early detect worn-out drive sheaves and may thus help to increase the service life of ropes.

Advantages

Applicable for all common groove shapes
Very easy handling
Measurement in 1/100mm or 1/1000 inch
Measuring accuracy 5/1000mm or 5/10000 inch
Total weight of 190 g
Switching between metric and imperial system



item number	size	version
77768	8-19 mm	metric
77768	8-19 mm	metric

RWG Rope Wear Gauge

Within seconds, the precision gauge enables you to check, whether the minimum nominal diameter of the rope is below the target. If below limit, the rope must be replaced

Advantages

Robust design in aluminum with anodized surface
Application in seconds
Weight of only 100 g
Applicable for diameters from 8.2 mm or 3/8 3/4 inch
Precise finish



item number	size	unit of Measurement
77768	8-19 mm	metric
77768	8-19 mm	metric

**Do not use
in event of a fire**

VT-LUBE Rope Care Lubricant . ROPE CUTTERS



VT-Lube

This rope care lubricant was especially developed for the relubrication of elevator ropes

Advantages

- excellent penetration quality causes optimum friction reduction in the rope
- excellent creep quality enables even lubricant distribution on and in the rope
- excellent corrosion protection
- suitable for high rope speed through very good adhesive quality
- neutral quality towards synthetic materials (no swelling of plastic parts)

item number	content
	mm
77738	5



Rope Cutters

item number	rope @	weight	length cutters
	mm	kg	mm
77790	upto 12	1.5	500
07535	upto 12	2.3	600

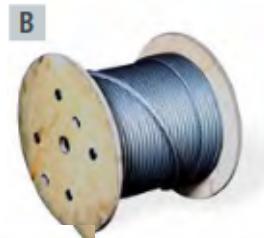


Hydraulic Rope Cutters

item number	rope @	weight	length cutters
	mm	kg	mm
77790	upto 12	1.5	500
07535	upto 12	2.3	600

PACKAGING

Transport packaging



When selecting the packaging, BRUGG LIFTING pays attention to the best transport protection possible. Our ropes are protected in the best possible way during the transport with special packaging materials against corrosion and mechanical damaging.

BRUGG LIFTING is committed to handle resources with great care. That is why our ropes, whenever possible, are delivered on sturdy returnable reels and drums that can be reused.

Cross Drums

capacity according to rope diameter
from 100m (16mm) to 400m (6,5mm)

Round Reels

/width: 300 600mm / 320 530mm

Coils

up to 50m or 30kg

XJ Wooden Reels 100 x 65 cm

capacity according to rope diameter
from 1000m HRS (16mm) or 1132kg reel weight
up to 4100m HRS (8mm) or 1118kg reel weight

System Deliveries on Pallets

consisting of rope/ end terminations/ accessories/
mounting material

System Deliveries in Sturdy Cardboard Box

L/W/H: 80x60x80cm / 120x60x80cm

WE SUPPORT YOU.WORLDWIDE



brugglifting.com. The compact informative homepage

Our Homepage provides you with vivid depictions of our entire product range. You can intuitively make preselections to meet your individual requirements and find your BRUGG LIFTING contacts all over the world with just a click. For the latest information, just visit our start page.

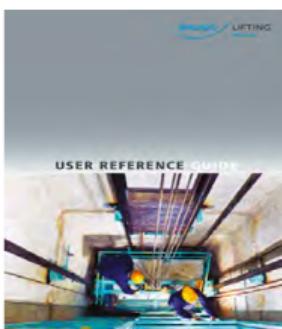
RLP . Calculate the service life of your ropes

Login in to our service life calculator on our website and enter the data of your ropes to calculate their service life..



Instructions for Use . Important tips for rope handling

Login in to our service life calculator on our website and enter the data of your ropes to calculate their service life..



User Reference Guide . About the handling our ropes

Make use of our extensive know-how rope handling. A quick Link on our website takes you to our User Reference Guide where you both find comprehensive technical details and tips and may retrieve the requested information via a targeted full-text Search. You may store all data as a PDF file.



SWITZERLAND



SWITZERLAND



USA

BRUGG LIFTING

Wydenstrasse 36
5242 Birr
Switzerland
T +41 (0)56 464 42 42
F +41(0)56 464 42 84
info.lifting@brugg.com
brugglifting.com

BRUGG LIFTING

Chemin de Foret 12
1024 Ecublens
Switzerland
T +41 (0)21 634 20 21
F +41(0)21 635 09 71
vente.lifting@brugg.co
brugglifting.com

Brugg Wire Rope LLC

3411 Turkey Mountain Road
NE
US-Rome,GA 30161
T +1 706 314 29 82
F +1 706 235 60 35
lifting.usa@brugg.com
brugglifting.com



CHINA

BRUGG LIFTING

Plant 1, Nr.88 jingling East
Road
Suzhou Industrial Park
jiangsu Province,215121
P.R. China
T +86 512 6299 0779
F +86 512 6299 0774
lifting.cn@brugg.com
brugglifting.cn



WORLDWIDE

Our quality products are available from more than 20 distributing partners around the world.

brugglifting.com

Creation date 10 / 2018

Subject to changes. Nonbinding indication of measures. No warranty for printing errors or errors.

If not agreed otherwise, our general conditions of sale and delivery are valid.

We thank OSMAAufzuge for the provision of the photos on the following pages 9, 13

Design, realization: www.schaefer-design.com

