

Mixed Core and Full Steel Ropes from BRUGG LIFTING

As buildings get higher and elevators become more compact, traditional 8x19 rope designs can no longer provide suitable levels of performance. Mixed core rope designs from BRUGG provide outstanding ride quality combined with extremely long life times. Apply a rope that provides maximum customer satisfaction and saves you time and money.

Contact us for more information.

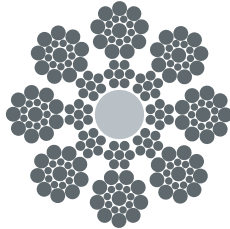
A low-angle, upward-looking photograph of an elevator shaft. The shaft is filled with numerous steel ropes, some of which are highlighted in a bright yellow color. The metal structure of the shaft, including beams and pulleys, is visible, creating a sense of depth and height.

MIXED CORE AND FULL STEEL ROPES

MCX8S – IWRC WIRE ROPE WITH POLYPROPYLENE CORE

Specially designed for elevators with aggressive V grooves to provide maximum abrasion resistance.

105.000 N/mm ²	0.131 %	0.3 %	≤ 200 m
E-Module	Elastic elongation	Permanent elongation	Lifting height



8x19S-IWRC 1570 U sZ
ø 12,70 - 19 mm

SIEMENS item number	BRUGG item number	rope ø		breaking load min.		weight		construction
		mm	in	kN	klbf	kg/100m	lb/ft	
106723411	73356	12.7	1/2	94.82	21.316	57.87	0.38	8x19S-IRWC 1570 U sZ
105959732	73347	13.0	–	103.31	23.224	62.95	0.42	8x19S-IRWC 1570 U sZ
106723412	73357	14.0	–	118.13	26.556	71.99	0.48	8x19S-IRWC 1570 U sZ
105141633	73352	16.0	5/8	154.23	34.672	94.02	0.62	8x19S-IRWC 1570 U sZ
106184732	73355	19.0	3/4	217.69	48.938	132.67	0.89	8x19S-IRWC 1570 U sZ

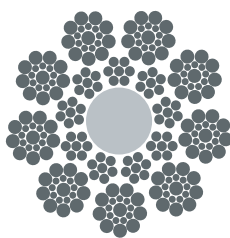
Further nominal strengths and/or diameters (including imperial dimensions) on request.
Rope diameter-tolerances according to EN12385-5/ISO 4344.

DP9 – PARALLEL LAY WIRE ROPE WITH POLYPROPYLENE CORE

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/mm ²	0.112 %	0.25 %	≤ 250 m
E-Module	Elastic elongation	Permanent elongation	Lifting height



9x19S-PWRC 1570 U sZ
ø 8 - 16 mm

SIEMENS item number	BRUGG item number	rope ø		breaking load min.		weight		construction
		mm	in	kN	klbf	kg/100m	lb/ft	
106723122	10681	8.0	5/16	36.70	8.251	25.00	0.1680	9x19S-PWRC 1570 U sZ. (RRL)
–	10684	9.0	–	48.50	10.903	33.00	0.2217	9x19S-PWRC 1570 U sZ. (RRL)
106723392	10944	9.5	–	52.20	11.735	35.70	0.2582	9x25F-PWRC 1570 U sZ. (RRL)
106723396	10687	10.0	–	58.60	13.174	40.00	0.2688	9x19S-PWRC 1570 U sZ. (RRL)
106723406	10690	11.0	7/16	71.90	16.164	49.00	0.3293	9x19S-PWRC 1570 U sZ. (RRL)
106723408	10693	12.0	–	83.50	18.771	57.00	0.4122	9x25F-PWRC 1570 U sZ. (RRL)
108182836	10164	12.7	1/2	95.60	21.492	64.90	0.4361	9x21F-PWRC 1770/1370 U sZ. (RRL)
108182837	10696	13.0	–	98.10	22.054	66.00	0.4435	9x21F-PWRC 1570 U sZ. (RRL)
108182839	10995	14.0	–	116.30	26.145	79.50	0.5750	9x25F-PWRC 1570 U sZ. (RRL)
108182840	78730	15.5	–	144.70	32.530	98.90	0.6646	9x25F-PWRC 1570 U sZ. (RRL)
108182842	78733	16.0	5/8	150.90	33.924	101.00	0.6787	9x25F-PWRC 1570 U sZ. (RRL)
–	78734	16.0	5/8	148.10	33.294	103.10	0.6928	9x25F-PWRC 1770/1370 U sZ. (RRL)

Further nominal strengths and/or diameters (including imperial dimensions) on request.
Rope diameter-tolerances according to EN12385-5/ISO 4344.

8x19- WIRE ROPE WITH SISAL FIBER CORE, 8 STRANDS

For high demands on elongation also under difficult installation conditions. Recommended for all groove shapes.

110.000
N/mm²
16 x 10⁶
psi

E-Module **

0.122
%
1.5
in / 100 ft

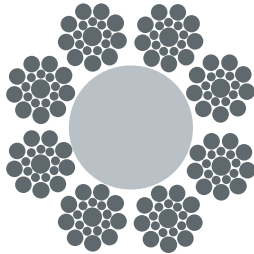
Elastic elongation

0.26
%
4
in / 100 ft

Permanent elongation

≤ 200
m
≤ 650
ft

Lifting height *



8x19S -NFC 1370/1770 U sZ (RRL)
ø8 -16 mm

SIEMENS item number	BRUGG item number	rope ø		breaking load min.		weight		construction
		mm	in	kN	lbs	kg/100m	lb/ft	
101921523	63999	8.0	5/16	30.48	6.852	21.70	0.146	8x19S -NFC 1370/1770 U sZ (RRL)
102274566	78748	9.0	—	38.20	8.588	27.00	0.181	8x19S -NFC 1370/1770 U sZ (RRL)
102274575	60544	10.0	—	47.20	10.611	33.60	0.226	8x19S -NFC 1370/1770 U sZ (RRL)
101921818	63996	11.0	7/16	58.62	13.178	41.60	0.280	8x19S -NFC 1370/1770 U sZ (RRL)
102274583	62928	12.0	—	71.00	15.962	50.60	0.340	8x19S -NFC 1370/1770 U sZ (RRL)
102277578	63981	12.7	1/2	75.93	17.070	54.00	0.363	8x19S -NFC 1370/1770 U sZ (RRL)
101921821	61577	13.0	—	81.90	18.412	58.20	0.391	8x19S -NFC 1370/1770 U sZ (RRL)
108138333	78689	14.0	—	93.40	20.591	66.60	0.485	8x19S -NFC 1370/1770 U sZ (RRL)
105776601	10158	15.0	—	110.90	24.449	79.00	0.538	8x19S -NFC 1370/1770 U sZ (RRL)
102052363	63982	16.0	5/8	122.30	27.494	87.20	0.586	8x19S -NFC 1370/1770 U sZ (RRL)

Further nominal strengths and/or diameters (including imperial dimensions) on request.
Rope diameter-tolerances according to EN12385-5/ISO 4344.

SC8 – STEEL CORE ROPE, 8 STRANDS, PARALLEL LAY

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

120.000
N/mm²
17.4 x 10⁶
psi

E-Module **

0.108
%
1.3
in / 100 ft

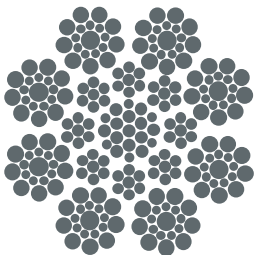
Elastic elongation

0.13
%
1.6
in / 100 ft

Permanent elongation

≤ 275
m
≤ 900
ft

Lifting height *



8x19S-PWRC 1370/1770 U sZ (RRL)
ø8 -13 mm

SIEMENS item number	BRUGG item number	rope ø		breaking load min.		weight		construction
		mm	in	kN	lbs	kg/100m	lb/ft	
101921819	10855	8.0	5/16	40.40	9.082	26.30	0.177	8x19S-PWRC 1370/1770 U sZ (RRL)
101921824	10858	10.0	—	63.50	14.275	41.10	0.276	8x19S-PWRC 1370/1770 U sZ (RRL)
101921826	10859	11.0	7/16	77.40	17.400	50.40	0.339	8x19S-PWRC 1370/1770 U sZ (RRL)
101921867	10860	12.0	—	93.41	20.593	60.92	0.418	8x19S-PWRC 1370/1770 U sZ (RRL)
101921868	10862	13.0	—	108.90	24.482	70.60	0.474	8x19S-PWRC 1370/1770 U sZ (RRL)

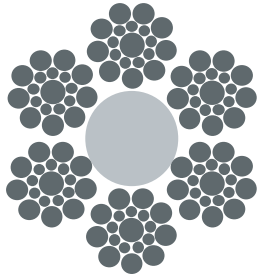
Further nominal strengths and/or diameters (including imperial dimensions) on request.
Rope diameter-tolerances according to EN12385-5/ISO 4344.

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

6x19 – WIRE ROPE WITH POLYPROPYLENE CORE, 6 STRANDS, SEALE

For high demands on elongation and corrosion protection with special rope lubrication.



6x19S-SFC 1960 B sZ (RRL)
ø 6,0 - 6,5mm

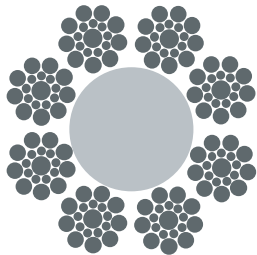
105.000 N/mm ² 15.2 x 10⁶ psi	0.084 % 1.0 in / 100 ft	0.22 % 2.64 in / 100 ft
E-Module **	Elastic elongation	Permanent elongation

SIEMENS item number	BRUGG item number	rope ø		breaking load min.		weight		construction
		mm	in	kN	lbs	kg/100m	lb/ft	
101921841	29463	6.0	–	24.40	5.485	12.30	0.081	6x19S-SFC 1960 B sZ (RRL)
101921850	03901	6.5	–	28.20	6.339	14.40	0.095	6x19S-SFC 1960 B sZ (RRL)

Further nominal strengths and/or diameters (including imperial dimensions) on request.
Rope diameter-tolerances according to EN12385-5/ISO 4344.

8x19 – WIRE ROPE WITH POLYPROPYLENE CORE, 8 STRANDS, SEALE

For high demands on elongation and corrosion protection with special rope lubrication.



8x19S-SFC 1770 B sZ (RRL)
ø 8 - 9,5mm

110.000 N/mm ² 15.2 x 10⁶ psi	0.142 % 1.7 in / 100 ft	0.22 % 2.64 in / 100 ft
E-Module **	Elastic elongation	Permanent elongation

SIEMENS item number	BRUGG item number	rope ø		breaking load min.		weight		construction
		mm	in	kN	lbs	kg/100m	lb/ft	
101921860	61540	8.0	5/16	35.50	7.980	21.00	0.139	8x19S-SFC 1770 B sZ (RRL)
101921865	77513	9.5	3/8	50.30	11.307	30.30	0.200	8x19S-SFC 1770 B sZ (RRL)

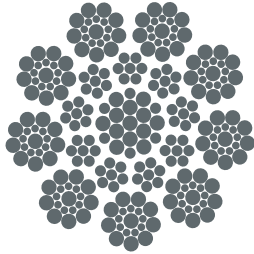
Further nominal strengths and/or diameters (including imperial dimensions) on request.
Rope diameter-tolerances according to EN12385-5/ISO 4344.

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

HRS – 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 $\leq 85^\circ$.

1125.000 N/mm ² 18.1 x 10⁶ 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 *



9x19S-PWRC 1570 U sZ. (RRL)
ø8 - 16 mm

SIEMENS item number	BRUGG item number	rope ø		breaking load min.		weight		construction
		mm	in	kN	lbs	kg/100m	lb/ft	
108938722	10699	8.0	5/16	42.70	9.599	26.90	0.181	9x19S-PWRC 1570 U sZ. (RRL)
108938723	10702	9.0	–	56.30	12.657	35.50	0.239	9x19S-PWRC 1570 U sZ. (RRL)
108182835	10705	10.0	–	68.00	15.287	42.80	0.288	9x19S-PWRC 1570 U sZ. (RRL)
108938724	10708	11.0	7/16	83.40	18.749	52.50	0.353	9x19S-PWRC 1570 U sZ. (RRL)
108938726	73040	12.0	–	96.80	21.762	60.90	0.409	9x21F-PWRC 1570 U sZ. (RRL)
108938728	10163	12.7	1/2	110.10	24.752	71.00	0.477	9x21F-PWRC 1570 U sZ. (RRL)
108182834	10648	13.0	–	114.10	25.651	71.80	0.482	9x21F-PWRC 1570 U sZ. (RRL)
108938732	10643	15.5	–	165.80	37.273	104.40	0.702	9x25F-PWRC 1570 U sZ. (RRL)
108182832	78712	16.0	5/8	174.90	39.319	110.10	0.740	9x25F-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 is 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.