

# KISWIRE ELEVATOR ROPE

Manufacturer of  
Elephant Brand  
for North America





## The Global Leader in the Production of Elevator Wire Ropes



Kiswire is the largest wire rope manufacturer in the world with over 70 years of comprehensive experience in rope making. Our continuous commitment to Research & Development, along with the technological advantages we have developed, have allowed us to produce what we consider the best quality elevator ropes.

The **Kiswire Elevator ropes** are manufactured utilizing the finest raw materials available featuring excellent mechanical characteristics. These qualities create the advantage of having a rope that exceeds the present requirements of the international elevator market.

Our commitment to R&D is reflected in the expert team dedicated to the **Kiswire Elevator ropes**. This commitment will allow us to retain and improve on our market position in the elevator rope market and will ensure we lead the market in innovation and improvement for years to come.

Kiswire will never rest.

### Advantages of Kiswire Elevator Rope

- **Less rebounding or vibration**
- **High fatigue resistance**
- **Less slippage**
- **High constructional stability**
- **Low constructional elongation**

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# 8 Strand Suspension Ropes with Steel Core : 8 x 7 Structure

**8×19W - IWRC (8 ~ 10mm)**

**8×25F - IWRC (11 ~ 16mm)**

## Characteristics

8strand, Right Hand Regular Lay (sZ), Right Hand Lang's Lay (zZ) upon request.

Preformed, Prestretched, Bright.

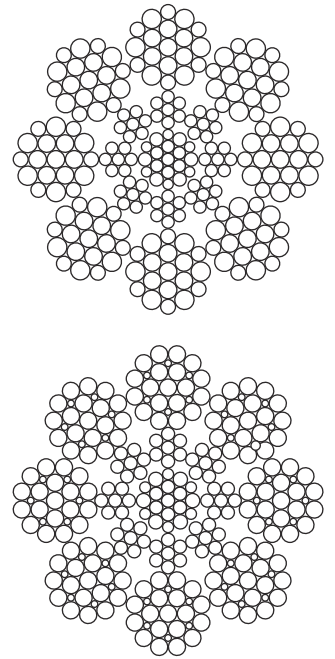
Flexible with good bending endurance

Elastic elongation at 10% M.B.L ≤ 0.15%

Permanent elongation ≤ 0.15%

Low rope diameter change under load

High breaking load & Good structural stability



Diameter		M.B.L [1570/1770]		Unit weight		Metallic area
Inch	mm	lbs.	kN	lb/ft	Kg/m	mm <sup>2</sup>
-	8	9,700	43.3	0.18	0.28	31.7
-	9	12,300	54.8	0.23	0.35	40.2
3/8	9.53	13,800	61.5	0.25	0.39	45.0
-	10	15,200	67.7	0.28	0.43	49.6
-	11	18,400	81.9	0.35	0.53	60.7
7/16	11.1	18,700	83.4	0.35	0.54	61.8
-	12	21,800	97.4	0.41	0.64	72.2
1/2	12.7	24,500	109	0.46	0.71	80.9
-	13	25,600	114	0.48	0.75	84.8
-	14	29,800	133	0.56	0.86	98.3
9/16	14.3	31,000	138	0.58	0.90	102.6
5/8	15.9	38,400	171	0.72	1.11	126.8
-	16	38,800	173	0.73	1.13	128.4

\* The European Standard EN-12385-5 is available upon request

# 8 Strand Suspension Ropes with Steel Core : 7 x 7 Structure

**8x19S - IWRC (7.94 ~ 22mm)**

**8x25F - IWRC (7.94 ~ 22mm)**

## Characteristics

8strand, Right Hand Regular Lay (sZ), Right Hand Lang's Lay (zZ) upon request.

Preformed, Prestretched, Bright.

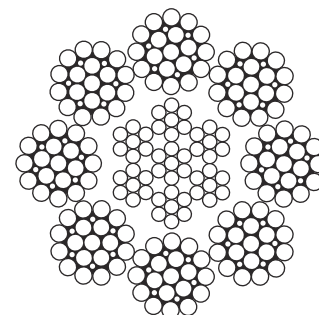
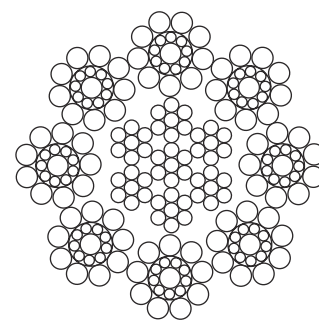
Flexible with good bending endurance

Elastic elongation at 10% M.B.L  $\leq$  0.15%

Permanent elongation  $\leq$  0.15%

Low rope diameter change under load

High breaking load & Good structural stability



Diameter		M.B.L [1370/1770]		M.B.L [1570/1770]		Unit weight		Metallic area
Inch	mm	lbs.	kN	lbs.	kN	lb/ft	Kg/m	mm <sup>2</sup>
5/16	7.94	8,000	35.8	8,500	38.0	0.18	0.26	30.8
-	9	10,100	45.3	10,800	48.2	0.23	0.34	39.5
3/8	9.53	11,300	50.4	12,000	53.7	0.26	0.38	44.3
-	10	12,500	55.9	13,300	59.5	0.28	0.42	48.8
-	11	15,100	67.6	16,100	71.9	0.34	0.51	59.1
7/16	11.1	15,400	68.8	16,400	73.3	0.35	0.52	60.2
-	12	18,000	80.5	19,200	85.6	0.41	0.61	70.3
1/2	12.7	20,200	90.1	21,500	95.9	0.46	0.68	78.7
-	13	21,200	94.5	22,400	100	0.48	0.71	82.5
-	14	24,700	110	26,200	117	0.56	0.83	95.7
9/16	14.3	25,600	114	30,100	134	0.58	0.86	99.8
5/8	15.9	31,600	141	33,700	150	0.73	1.07	123.4
-	16	32,100	143	34,100	152	0.73	1.08	125.0
11/16	17.5	38,400	171	40,900	182	0.87	1.29	149.5
-	18	40,600	181	43,300	193	0.91	1.36	158.2
3/4	19.1	45,800	204	48,700	217	1.02	1.52	178.1
-	22	60,900	271	64,700	288	1.36	2.03	236.3

\* The European Standard EN-12385-5 is available upon request

# 8 Strand Suspension Ropes with Fiber Core

**8×19S - Fiber Core**

**8×19W - Fiber Core**

**8×25Fi - Fiber Core**

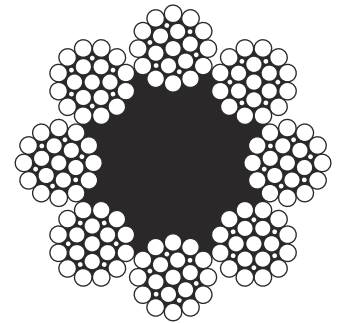
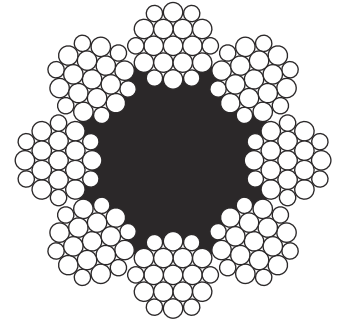
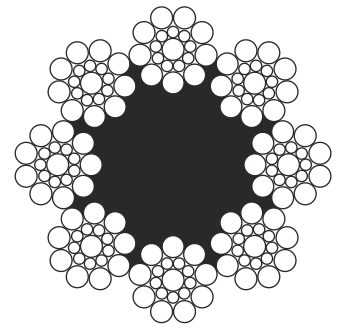
## Characteristics

8strand, Right hand regular lay (sZ), Right hand lang's lay (zZ) upon request.

Preformed, Prestretched, Bright.

Elastic elongation at 10% M.B.L ≤ 0.20%

Permanent elongation ≤ 0.40%



Diameter		M.B.L							Unit weight	Metallic area	
		ASME A17.6			JIS & KS		ISO				
		Iron	Traction	EHS	Grade E	Grade A	1570	1770			
Inch	mm	lbs.	lbs.	lbs.	kN	kN	kN	kN	lb/ft	Kg/m	mm <sup>2</sup>
1/4	6.35	1,800	3,600	4,500	16.4	19.4	18.5	21.2	0.09	0.14	14.7
5/16	7.94	2,900	5,600	6,900	26.0	30.8	29.4	33.2	0.14	0.22	23.7
-	8	2,900	5,600	6,900	26.0	30.8	29.4	33.2	0.14	0.22	23.7
3/8	9.53	4,200	8,200	9,900	36.6	43.4	41.5	46.8	0.20	0.31	33.1
-	10	4,700	9,100	11,000	40.6	48.1	46.0	51.9	0.22	0.34	36.5
7/16	11.1	5,600	11,000	13,500	51.0	60.3	56.7	63.9	0.28	0.42	45.0
-	12	6,500	12,900	15,800	58.5	69.2	66.2	74.7	0.32	0.49	52.6
1/2	12.7	7,200	14,500	17,500	65.5	77.6	74.2	83.6	0.36	0.55	58.9
-	14	8,700	17,600	20,200	79.6	94.3	90.2	102	0.44	0.67	71.5
9/16	14.3	9,200	18,500	21,100	83.1	98.3	94.0	106	0.46	0.70	74.6
5/8	15.9	11,200	23,000	27,200	104	123	118	133	0.57	0.88	93.5
-	16	11,200	23,000	27,200	104	123	118	133	0.57	0.88	94.1
11/16	17.5	13,400	27,000	32,800	124	147	141	158	0.69	1.05	112
-	18	14,200	28,600	34,700	132	156	149	168	0.72	1.11	119
3/4	19.1	16,000	32,000	38,900	147	175	166	187	0.82	1.25	133

\* The European Standard EN-12385-5 is available upon request

# Special Traction Ropes for High-rise : Hyele 10

**10×19S - PWRC (10 ~ 12mm)**

**10×26WS - PWRC (13 ~ 22mm)**

## Characteristics

10strand, Right Hand Regular Lay (sZ)

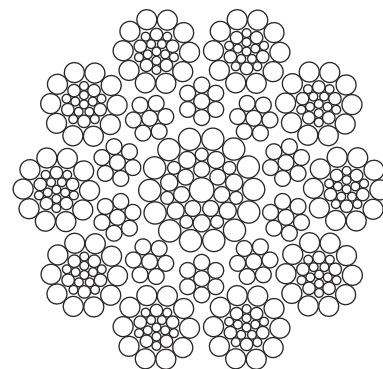
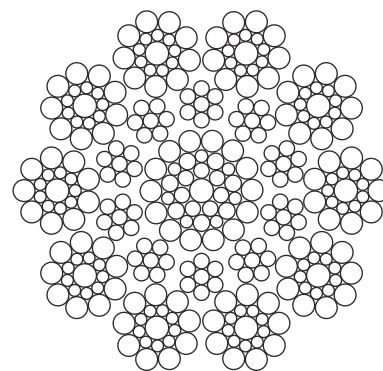
Well rounded rope cross section

Elastic elongation at 10% M.B.L ≤ 0.10%

Permanent elongation ≤ 0.13%

Low rope diameter change under load

High breaking load & Good structural stability



Diameter	M.B.L [1570/1770]		Unit weight		Metallic area
	lbs.	kN	lb/ft	Kg/m	
mm					mm <sup>2</sup>
10.0	15,800	70.3	0.29	0.45	52.2
11.0	19,100	85.0	0.35	0.54	63.2
12.0	22,700	101.2	0.42	0.65	75.2
13.0	26,700	118.8	0.51	0.79	88.8
14.0	30,900	137.7	0.59	0.91	103.0
15.0	35,500	158.1	0.68	1.05	118.2
16.0	40,400	179.9	0.77	1.19	134.5
18.0	51,100	227.7	0.98	1.51	170.2
20.0	63,100	281.1	1.20	1.86	210.2
22.0	76,400	340.1	1.46	2.25	254.3

\* The European Standard EN-12385-5 is available upon request

# 6 Strand Suspension Ropes with Fiber Core

**6×19S - Fiber Core**

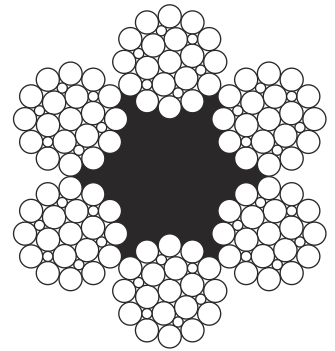
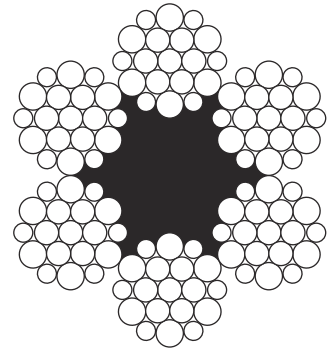
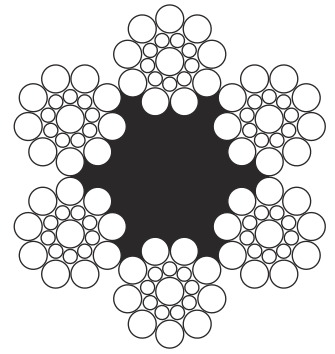
**6×19W - Fiber Core**

**6×25Fi - Fiber Core**

## Characteristics

6strand, Right hand regular lay (sZ)

Preformed, Prestretched, Bright or Galvanized

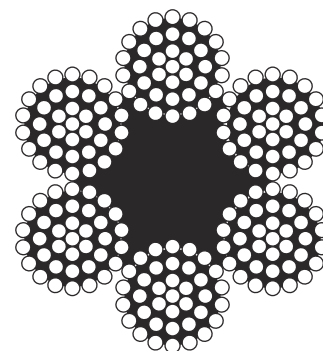


Diameter		M.B.L								Unit weight		Metallic area
		ASME A17.6			JIS & KS			ISO				
		Iron	Traction	EHS	Grade E	Grade A	Grade B	1570	1770			
Inch	mm	lbs.	lbs.	lbs.	kN	kN	kN	kN	kN	lb/ft	Kg/m	mm <sup>2</sup>
1/4	6.35	2,200	3,600	5,200	18.0	22.0	23.4	21.2	23.9	0.10	0.16	16.4
5/16	7.94	3,200	5,600	8,100	28.6	34.9	36.6	33.2	37.4	0.16	0.25	26.4
-	8	3,200	5,600	8,100	28.6	34.9	37.2	33.2	37.4	0.16	0.25	26.4
3/8	9.53	5,000	8,200	11,600	40.3	49.2	52.7	46.8	52.7	0.23	0.35	37.0
-	10	5,500	9,100	12,900	44.7	54.5	58.1	51.8	58.4	0.25	0.39	40.8
7/16	11.1	6,400	11,000	15,700	56.1	68.3	71.6	63.8	72.0	0.31	0.48	50.2
-	12	7,500	12,900	18,300	64.4	78.5	83.6	74.6	84.1	0.36	0.56	57.5
1/2	12.7	8,400	14,500	20,400	72.2	88.1	93.7	83.6	94.2	0.40	0.62	65.5
-	14	10,200	17,600	24,800	87.7	107	114	102	114	0.49	0.76	79.8
9/16	14.3	10,600	18,500	25,700	91.9	112	119	106	119	0.51	0.79	83.4
5/8	15.9	12,800	23,000	31,600	115	139	149	133	150	0.63	0.98	103
-	16	12,800	23,000	31,600	115	139	149	133	150	0.64	0.99	104
-	18	16,200	28,600	40,400	146	177	188	168	189	0.81	1.25	132
3/4	19.1	18,200	32,000	45,200	164	198	212	187	211	0.91	1.41	149

\* The European Standard EN-12385-5 is available upon request



# 6 Strand Compensation Ropes with Fiber Core



## 6x37 - Fiber core

### Characteristics

6strand, Right hand regular lay (sZ)  
Preformed, Bright or Galvanized

Diameter		M.B.L Grade G		M.B.L Grade A		Unit weight		Metallic area
Inch	mm	lbs.	kN	lbs.	kN	lb/ft	Kg/m	mm <sup>2</sup>
-	14	21,700	96.7	23,300	104	0.46	0.70	72.4
5/8	15.9	28,300	126	30,500	136	0.60	0.92	98.9
-	16	35,900	126	30,500	136	0.60	0.92	98.9
-	18	35,900	160	38,600	172	0.75	1.16	125
3/4	19.1	40,200	179	43,300	193	0.85	1.31	141
-	20	44,200	197	47,600	212	0.93	1.44	154

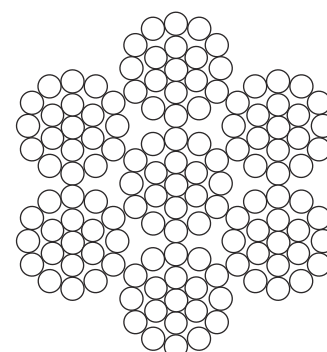
\* The European Standard EN-12385-5 is available upon request

## 6x17S - Fiber Core

Diameter		M.B.L Grade 1960		Unit weight		Metallic area
mm	lbs.	kN	lb/ft	Kg/m	mm <sup>2</sup>	
6.3	6,100	27.2	0.09	0.14	15.0	

\* The European Standard EN-12385-5 is available upon request

# Control Cable for Elevator Door



## 7x19

### Characteristics

6strand, Right Hand Regular Lay (sZ), Preformed, Galvanized

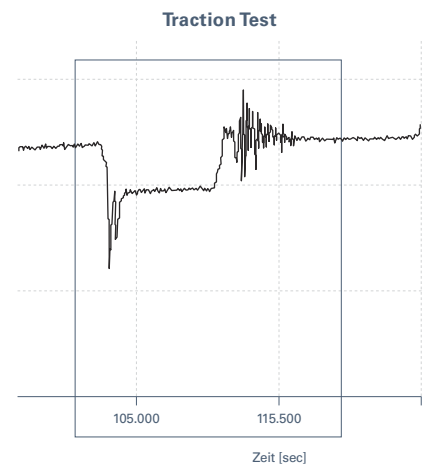
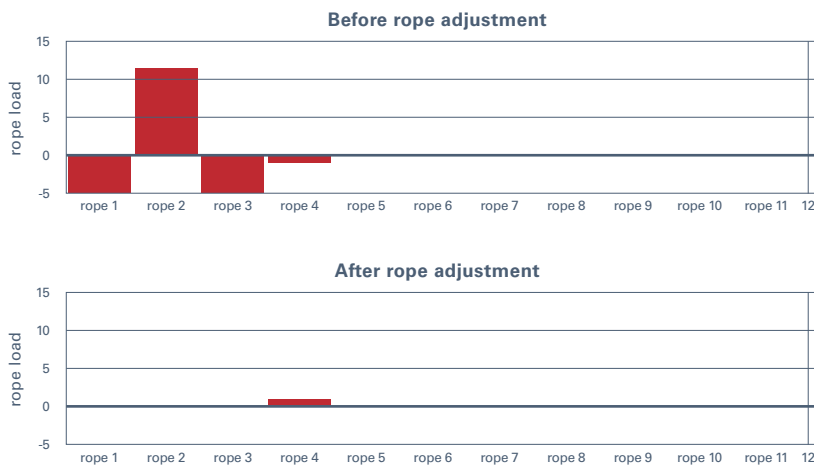
Diameter		M.B.L Grade 1960		Unit weight		Metallic area
Inch	mm	lbs.	kN	lb/ft	Kg/m	mm <sup>2</sup>
1/8	3.18	1,993	8.9	0.029	0.043	4.88

\* The European Standard EN-12385-5 is available upon request

# Technical Information

## Rope tension measurement devices

Maintaining equal tension in both suspension and compensating ropes is critical in order for system to achieve maximum performance and to extend rope life expectancy



Testing Device

## Maintenance Rope Grease

Wire Rope lubricant is applied to the wire ropes during manufacturing. During regular use, the amount of lubricant decreases, heavily impacting the lifespan of the rope. To minimize damage and extend the operational life of the rope, regular lubrication is necessary.

## Rope Storage & Installation

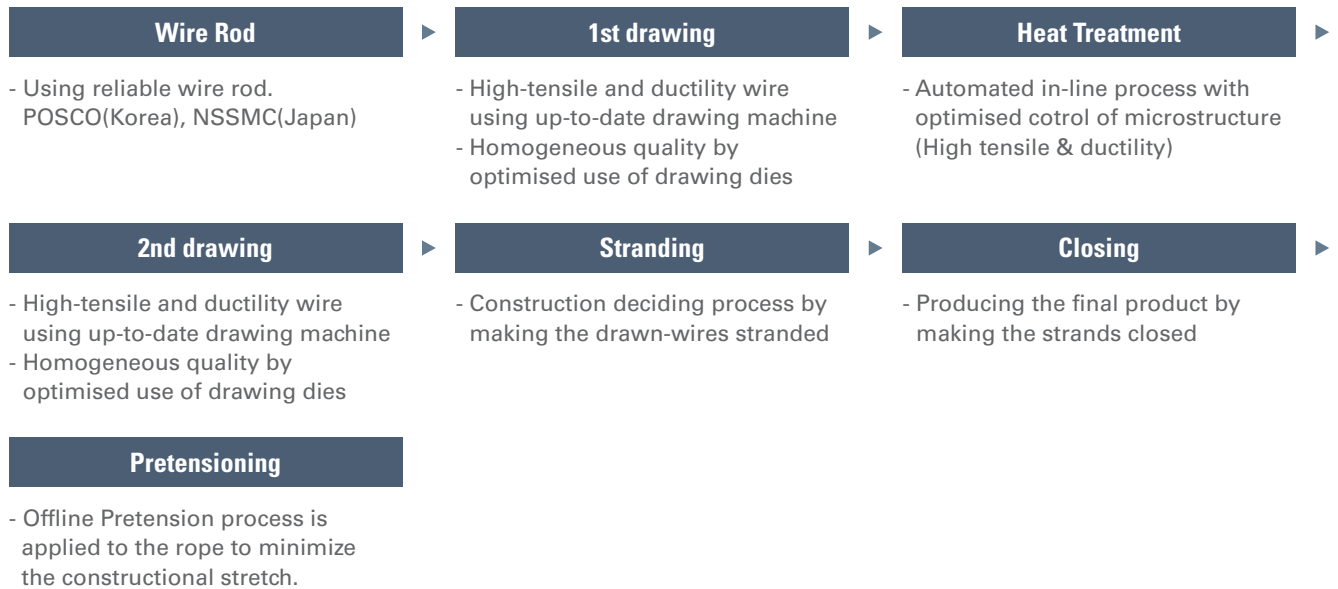
### (1) Storage

- Store wire rope indoors. If outdoor storage is unavoidable, place reels on plastic or wooden pallet to elevate approximately 30cm from the ground and cover with a waterproof cover.
- Never leave rope accessible to moisture, sunlight, or heat. This may cause the lubricant to flow out of the rope.

### (2) Installation Method from Reel (to prevent kinks or bending)

- Select a ground area to layout the rope where adhesions such as moisture or dust will not be in contact.
- Pull out the rope while rotating the load and place on select area.

## Manufacturing Process



## Construction Prestretched Table

Construction Prestretched		Elastic Stretch (per 100ft)	Constructional Stretch (per 100ft)	Total Stretch (per 100ft)
Fiber Core	6 Strand Traction	1.5" ~ 2"	1.5" ~ 3"	3" ~ 5"
	6 Strand EHS Traction	2" ~ 2.5"	1.5" ~ 3"	3.5" ~ 5.5"
	8 Strand Traction	2.5" ~ 3"	2" ~ 4"	4.5" ~ 7"
	8 Strand EHS Traction	3" ~ 3.5"	2" ~ 4"	5" ~ 7.5"
Steel Core	6 Strand EHS Traction	1.3" ~ 1.7"	1" ~ 2"	2.3" ~ 3.7"
	8 Strand EHS Traction	2" ~ 2.4"	1.3" ~ 2.7"	3.3" ~ 5.1"

## Kiswire Quality Certification

KISWIRE is committed to supplying the highest possible quality across its full product range.

This is achieved by strict adherence to ISO 9001 to which the whole of KISWIRE’s operations are accredited.

KISWIRE maintains its QA programs throughout its operations to ensure that products are manufactured under a documented and controlled system for consistency in workmanship standard.

**ISO 9001: Quality Management System**

**ISO 14001: Environmental Management System**

**DNV GL Approval of a Manufacturer Certificate**

**CCS Certificate of Works Approval**

**KR Approval Certificate For Manufacturing Process**

**JIS G 3525, G 3546 Certificate of Works Approval**

**TUV SUD Certificate Concerning the examination of Conformity**

**BV Recognition For BV Mode II Scheme**

**RINA Certificate of Approval of Manufactures of Materials**

**KS D 3514 Certificate of Works Approval**

**LR Approval of a Manufacturer Certificate**



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