

Sheave Blocks

Use and Maintenance



Sheave Block Use and Maintenance

Load ratings on all SuperLift sheave blocks are applicable to new or as new products only and apply to the maximum load which may be supported by the head fitting, under usual environmental conditions, shock loadings must be taken into account when selecting sheave blocks, as these loads are much greater than static loads. The W.L.L. or safety factor on all SuperLift products may be affected by wear, misuse, overloading, deformation, corrosion or other conditions, regular inspection must be carried out to determine whether use can be continued or the product withdrawn from service.

Experienced trained personnel familiar with tackle systems should rig SuperLift sheave blocks.

WORKING LOAD LIMIT - The maximum load or force the product is authorized to support in a particular service.

PROOF LOAD - The average force to which a product may be subjected to before deformation occurs.

SHOCK LOAD - A force that results from the rapid acceleration of a static load eg, jerking, these loads adds significantly to the static load.

STATIC LOAD - A constantly applied force or load.

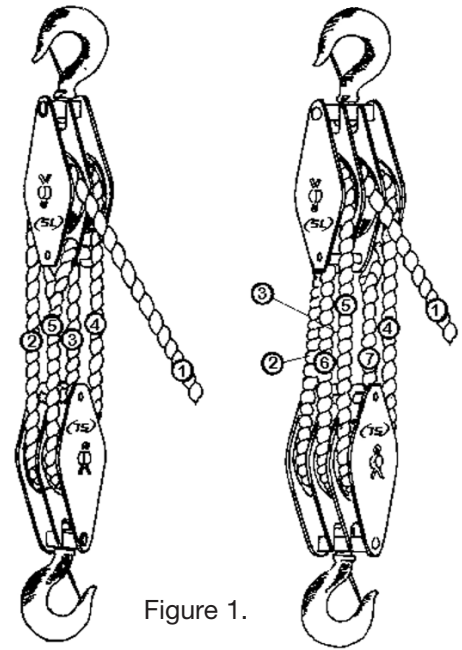
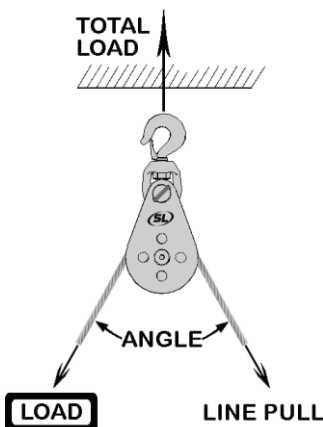


Figure 1.

Reeving of Sheave Blocks

When reeving a pair of sheave blocks one of which has more than two sheaves, the lead line should come off one of the centre sheaves of the upper block to prevent toppling of the upper block and possible damage to the rope. Always start reeving from the becket and avoid chafing the rope on the side plates. When you have completed reeving, the bottom block must be at right angles to the top block as in Figure 1. The upper block has a greater hook load due to the pull on the lead rope. The sheaves in these blocks revolve at different speeds, those nearest the lead line rotate at the highest speed and therefore wear out faster. For applications which require heavy lifting or high speed operation, bronze bushes or roller bearings should be specified when ordering.



Loads on Sheave Blocks

The total load on a sheave block can be much greater than the actual load being lifted or pulled. Multiply the following factors by the line pull to obtain the total load on the block.

ANGLE	FACTOR	ANGLE	FACTOR	ANGLE	FACTOR	ANGLE	FACTOR
0°	2.00	50°	1.81	100°	1.29	150°	0.52
10°	1.99	60°	1.73	110°	1.15	160°	0.35
20°	1.97	70°	1.64	120°	1.00	170°	0.17
30°	1.93	80°	1.53	130°	0.84	180°	0.00
40°	1.87	90°	1.41	140°	0.68	-	-



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Sheave Blocks

Hand Operated Sheave Blocks



Hand Operated Sheave Blocks to AS2089

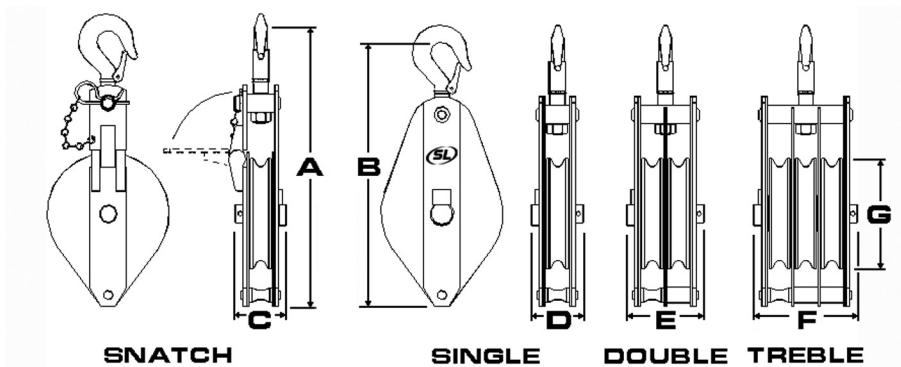
Sheave blocks range from 63mm dia to 254mm dia Hand operated and 152mm dia to 450mm single, double and treble configurations.

Sheave blocks incorporate the following features: - Safety latch fitted to hook as standard

- Drop forged swivel Hook or Eye
- Cast iron and steel machined sheaves to suit either wire rope or manilla (fibre) rope
- Power operated sheaves are fitted with high capacity bushes
- Power operated axles are fitted with a grease nipple to enable pressure grease lubrication
- Identification labels to show capacities and other relevant details
- Painted SuperLift blue enamel

Optional Extras:

- Hand operated sheaves can be fitted with high capacity bushes or bearings
- Different wire rope sizes other than standard
- Specialized Sheaves - with ball or roller bearing
- with special grooves
- Manufactured out of steel or other materials
- Special surface finish e.g., Oxo-sealed, Zinc plated, Galvanizing etc.
- Sheave blocks can be manufactured to suit any application.
- Test certificates only if requested at time of order.

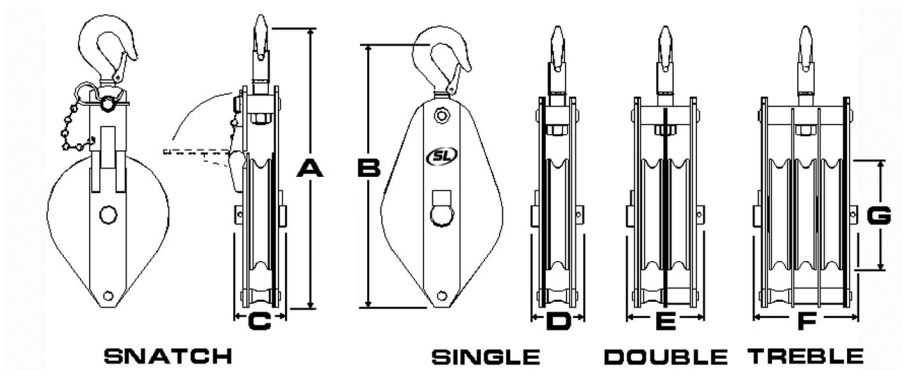


Sheave Blocks

Sizing



Sheave dia (G)	Type	WLL kg.	Rope Type	Rope dia (mm)	Head Fitting	Product Code	Bush Fitted	A	B	C	D	E	F	Unit Wgt kg.	
63	Single	250	Manilla	10	Eye	SBH-001-ME	Yes		168					1.0	
					Hook	SBH-001-MH									
			Wire	5	Eye	SBH-001-WE									
					Hook	SBH-001-WH									
	Double	250	Manilla	10	Eye	SBH-002-ME	Yes		168				59	1.6	
					Hook	SBH-002-MH									
			Wire	5	Eye	SBH-002-WE									
					Hook	SBH-002-WH									
	Treble	250	Manilla	10	Eye	SBH-003-ME	Yes		168					83	1.8
					Hook	SBH-003-MH									
			Wire	5	Eye	SBH-003-WE									
					Hook	SBH-003-WH									
Snatch	250	Manilla	10	Eye	SBH-004-ME	Yes	173		41					1.2	
				Hook	SBH-004-MH										
		Wire	5	Eye	SBH-004-WE										
				Hook	SBH-004-WH										
76	Single	250	Manilla	12	Eye	SBH-011-ME	Yes		189					1.0	
					Hook	SBH-011-MH									
			Wire	6	Eye	SBH-011-WE									
					Hook	SBH-011-WH									
	Double	250	Manilla	12	Eye	SBH-012-ME	Yes		189				59	1.7	
					Hook	SBH-012-MH									
			Wire	6	Eye	SBH-012-WE									
					Hook	SBH-012-WH									
	Treble	250	Manilla	12	Eye	SBH-013-ME	Yes		189					83	2.0
					Hook	SBH-013-MH									
			Wire	6	Eye	SBH-013-WE									
					Hook	SBH-013-WH									
	Snatch	250	Manilla	12	Eye	SBH-014-ME	Yes	194		41					1.3
					Hook	SBH-014-MH									
			Wire	6	Eye	SBH-014-WE									
					Hook	SBH-014-WH									



Section 7



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Sheave Blocks

Sizing



Sheave dia (G)	Type	WLL kg.	Rope Type	Rope dia (mm)	Head Fitting	Product Code	Bush Fitted	A	B	C	D	E	F	Unit Wgt kg.	
89	Single	250	Manilla	14	Eye	SBH-021-ME	Yes		253		38			1.7	
					Hook	SBH-021-MH									
			Wire	7	Eye	SBH-021-WE									
					Hook	SBH-021-WH									
	Double	250	Manilla	14	Eye	SBH-022-ME	Yes		253				64	2.5	
					Hook	SBH-022-MH									
			Wire	7	Eye	SBH-022-WE									
					Hook	SBH-022-WH									
	Treble	250	Manilla	14	Eye	SBH-023-ME	Yes		253					87	3.4
					Hook	SBH-023-MH									
			Wire	7	Eye	SBH-023-WE									
					Hook	SBH-023-WH									
Snatch	250	Manilla	14	Eye	SBH-024-ME	Yes	258		51					2	
				Hook	SBH-024-MH										
		Wire	7	Eye	SBH-024-WE										
				Hook	SBH-024-WH										
102	Single	500	Manilla	16	Eye	SBH-031-ME	Option		276		48			2.2	
					Hook	SBH-031-MH									
			Wire	8	Eye	SBH-031-WE									
					Hook	SBH-031-WH									
	Double	750	Manilla	16	Eye	SBH-032-ME	Option		276				79	3.6	
					Hook	SBH-032-MH									
			Wire	8	Eye	SBH-032-WE									
					Hook	SBH-032-WH									
	Treble	750	Manilla	16	Eye	SBH-033-ME	Option		276					112	5
					Hook	SBH-033-MH									
			Wire	8	Eye	SBH-033-WE									
					Hook	SBH-033-WH									
Snatch	500	Manilla	16	Eye	SBH-034-ME	Option	281		41					2.8	
				Hook	SBH-034-MH										
		Wire	8	Eye	SBH-034-WE										
				Hook	SBH-034-WH										
114	Single	750	Manilla	18	Eye	SBH-041-ME	Option		322		48			2.8	
					Hook	SBH-041-MH									
			Wire	9	Eye	SBH-041-WE									
					Hook	SBH-041-WH									
	Double	750	Manilla	18	Eye	SBH-042-ME	Option		322				79	4.6	
					Hook	SBH-042-MH									
			Wire	9	Eye	SBH-042-WE									
					Hook	SBH-042-WH									
	Treble	1000	Manilla	18	Eye	SBH-043-ME	Option		322					112	6.4
					Hook	SBH-043-MH									
			Wire	9	Eye	SBH-043-WE									
					Hook	SBH-043-WH									
Snatch	750	Manilla	18	Eye	SBH-044-ME	Option	339		58					3.6	
				Hook	SBH-044-MH										
		Wire	9	Eye	SBH-044-WE										
				Hook	SBH-044-WH										

Sheave Blocks

Sizing



Sheave dia (G)	Type	WLL kg.	Rope Type	Rope dia (mm)	Head Fitting	Product Code	Bush Fitted	A	B	C	D	E	F	Unit Wgt Kg.
127	Single	1000	Manilla	20	Eye	SBH-051-ME	Option		333		61			4.2
				10	Hook	SBH-051-MH								
			Wire	10	Eye	SBH-051-WE								
				10	Hook	SBH-051-WH								
	Double	1000	Manilla	20	Eye	SBH-052-ME	Option		333			95		6.4
				10	Hook	SBH-052-MH								
			Wire	10	Eye	SBH-052-WE								
				10	Hook	SBH-052-WH								
	Treble	1000	Manilla	20	Eye	SBH-053-ME	Option		333				131	8.4
				10	Hook	SBH-053-MH								
			Wire	10	Eye	SBH-053-WE								
				10	Hook	SBH-053-WH								
Snatch	1000	Manilla	20	Eye	SBH-054-ME	Option	350		61				4.1	
			10	Hook	SBH-054-MH									
		Wire	10	Eye	SBH-054-WE									
			10	Hook	SBH-054-WH									
152	Single	1000	Manilla	24	Eye	SBH-061-ME	Option		380		71			5.8
				12	Hook	SBH-061-MH								
			Wire	12	Eye	SBH-061-WE								
				12	Hook	SBH-061-WH								
	Double	1500	Manilla	24	Eye	SBH-062-ME	Option		380			107		9.2
				12	Hook	SBH-062-MH								
			Wire	12	Eye	SBH-062-WE								
				12	Hook	SBH-062-WH								
	Treble	2000	Manilla	24	Eye	SBH-063-ME	Option		380				144	12.8
				12	Hook	SBH-063-MH								
			Wire	12	Eye	SBH-063-WE								
				12	Hook	SBH-063-WH								
Snatch	1000	Manilla	24	Eye	SBH-064-ME	Option	396		71				5.4	
			12	Hook	SBH-064-MH									
		Wire	12	Eye	SBH-064-WE									
			12	Hook	SBH-064-WH									
178	Single	1500	Manilla	28	Eye	SBH-071-ME	Option		443		83			9
				14	Hook	SBH-071-MH								
			Wire	14	Eye	SBH-071-WE								
				14	Hook	SBH-071-WH								
	Double	2000	Manilla	28	Eye	SBH-072-ME	Option		443			126		14.8
				14	Hook	SBH-072-MH								
			Wire	14	Eye	SBH-072-WE								
				14	Hook	SBH-072-WH								
	Treble	2000	Manilla	28	Eye	SBH-073-ME	Option		443				169	20.6
				14	Hook	SBH-073-MH								
			Wire	14	Eye	SBH-073-WE								
				14	Hook	SBH-073-WH								
Snatch	1500	Manilla	28	Eye	SBH-074-ME	Option	443		83				8.6	
			14	Hook	SBH-074-MH									
		Wire	14	Eye	SBH-074-WE									
			14	Hook	SBH-074-WH									



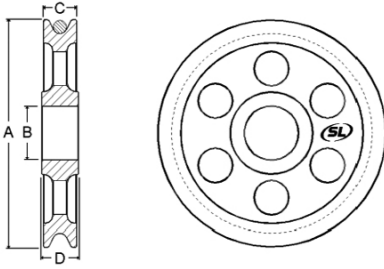
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Sheave Blocks

Sizing



Sheave dia (G)	Type	WLL kg.	Rope Type	Rope dia (mm)	Head Fitting	Product Code	Bush Fitted	A	B	C	D	E	F	Unit Wgt Kg.	
203	Single	2000	Manilla	32	Eye	SBH-081-ME	Option		500		94			13.4	
				Hook	SBH-081-MH										
			Wire	16	Eye	SBH-081-WE									
				Hook	SBH-081-WH										
	Double	3000	Manilla	32	Eye	SBH-082-ME	Option		500			157		22	
				Hook	SBH-082-MH										
			Wire	16	Eye	SBH-082-WE									
				Hook	SBH-082-WH										
	Treble	4000	Manilla	32	Eye	SBH-083-ME	Option		500					198	31
				Hook	SBH-083-MH										
			Wire	16	Eye	SBH-083-WE									
				Hook	SBH-083-WH										
Snatch	2000	Manilla	32	Eye	SBH-084-ME	Option	500		94					13.8	
			Hook	SBH-084-MH											
		Wire	16	Eye	SBH-084-WE										
			Hook	SBH-084-WH											
229	Single	2500	Manilla	36	Eye	SBH-091-ME	Option		607		107			22.4	
				Hook	SBH-091-MH										
			Wire	18	Eye	SBH-091-WE									
				Hook	SBH-091-WH										
	Double	4000	Manilla	36	Eye	SBH-092-ME	Option		607			168		36.9	
				Hook	SBH-092-MH										
			Wire	18	Eye	SBH-092-WE									
				Hook	SBH-092-WH										
	Treble	4000	Manilla	36	Eye	SBH-093-ME	Option		607					229	50.7
				Hook	SBH-093-MH										
			Wire	18	Eye	SBH-093-WE									
				Hook	SBH-093-WH										
Snatch	2500	Manilla	36	Eye	SBH-094-ME	Option	607		107					23.4	
			Hook	SBH-094-MH											
		Wire	18	Eye	SBH-094-WE										
			Hook	SBH-094-WH											
254	Single	3000	Manilla	40	Eye	SBH-101-ME	Option		643		114			28.2	
				Hook	SBH-101-MH										
			Wire	20	Eye	SBH-101-WE									
				Hook	SBH-101-WH										
	Double	4000	Manilla	40	Eye	SBH-102-ME	Option		643			183		46.6	
				Hook	SBH-102-MH										
			Wire	20	Eye	SBH-102-WE									
				Hook	SBH-102-WH										
	Treble	5000	Manilla	40	Eye	SBH-103-ME	Option		643					252	70.6
				Hook	SBH-103-MH										
			Wire	20	Eye	SBH-103-WE									
				Hook	SBH-103-WH										
Snatch	3000	Manilla	40	Eye	SBH-104-ME	Option	643		114					29	
			Hook	SBH-104-MH											
		Wire	20	Eye	SBH-104-WE										
			Hook	SBH-104-WH											



Hand Operated Sheaves to AS 2089

Sheave dia (A)	Rope Type	Rope dia (mm)	Product Code	Standard pkt. size	Bush Fitted as standard	**B	C	D	Unit Wgt Kg.
60	Wire	5	SBH-001-30	10	Yes	12	18	21	0.4
	Manilla	10	SBH-001-7						
76	Wire	6	SBH-011-30	10	Yes	12	18	21	0.4
	Manilla	12	SBH-011-7						
89	Wire	7	SBH-021-30	10	Yes	16	18	21	0.42
	Manilla	14	SBH-021-7						
102	Wire	8	SBH-031-30	10	Option	20	25	28	0.8
	Manilla	16	SBH-031-7						
114	Wire	9	SBH-041-30	10	Option	22	25	28	0.9
	Manilla	18	SBH-041-7						
127	Wire	10	SBH-051-30	10	Option	22	28	31	1.2
	Manilla	20	SBH-051-7						
152	Wire	12	SBH-061-30	5	Option	25	29	32	2.2
	Manilla	24	SBH-061-7						
178	Wire	14	SBH-071-30	n/a	Option	30	36	39	3.4
	Manilla	28	SBH-071-7						
203	Wire	16	SBH-081-30	n/a	Option	35	41	46	5.2
	Manilla	32	SBH-081-7						
229	Wire	18	SBH-091-30	n/a	Option	45	51	55	8.2
	Manilla	36	SBH-091-7						
254	Wire	20	SBH-101-30	n/a	Option	45	57	62	12.4
	Manilla	40	SBH-101-7						

Heavy Duty Sheaves

100	Wire	10 - 11	SSB10010	5	Yes	25	25	28	2
150	Wire	12 - 14	SSB15012	5	Yes	30	29	32	3
150	Wire	16 - 18	SSB15018	n/a	Yes	35	37	40	2.8
200	Wire	18 - 20	SSB20020	n/a	Yes	35	37	40	4.8
250	Wire	22	SSB25022	n/a	Yes	50	48	50	9.2
300	Wire	26	SSB30026	n/a	Yes	55	56	60	14.8
350	Wire	28	SSB35028	n/a	Yes	60	56	60	19.4
400	Wire	32	SSB40032	n/a	Yes	70	65	69	30
450	Wire	32	SSB45032	n/a	Yes	70	65	69	32

Snatch Blocks

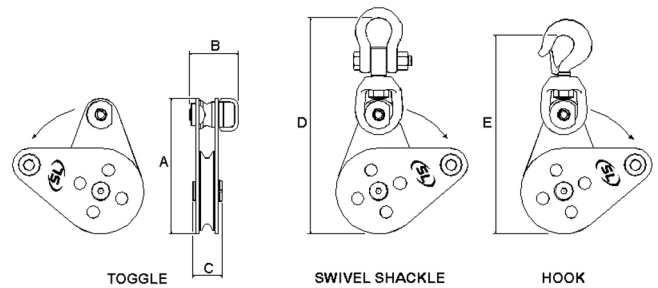
Sizing



Snatch blocks are generally used in the construction, heavy recovery and shipping industries. CAPACITY blocks most commonly used for equalizer applications.

Snatch Blocks incorporate the following features:

- Lightweight heavy-duty construction.
- Special high capacity bushes and grease nipples fitted as standard.
- Quick snatch action also c/w safety locking clip.
- Safety screw pins fitted as standard.
- Choose from a variety of head fittings.
- Supplied painted SuperLift Industrial grey enamel.
- Spare parts are always available.



Sheave dia (G)	Wire Rope dia (mm)	WLL kg.	Type	Product Code	A	B	C	D	E	Unit Wgt kg.
100	10-11	3000	Swivel Shackle	SSB100S		66	53	333		4.4
			Hook	SSB100H		66	53		326	4.9
			Toggle	SSB100T	188	66	53			3.4
			Sheave Only	SSB10010						2
150	12-14	4500	Swivel Shackle	SSB150S4		100	67	418		8.8
			Hook	SSB150H4		100	67		415	9.2
			Toggle	SSB150T4	256	100	67			6
			Sheave Only	SSB15012						2.2
150	16-18	8000	Swivel Shackle	SSB150S		108	88	490		12
			Hook	SSB150H		108	88		472	12.3
			Toggle	SSB150T	280	108	88			8
			Sheave Only	SSB15018						3.2
200	18-20	8000	Swivel Shackle	SSB200S		108	88	540		15.2
			Hook	SSB200H		108	88		522	15.5
			Toggle	SSB200T	330	108	88			11
			Sheave Only	SSB20020						4.2
250	22	10000	Swivel Shackle	SSB250S		156	107	684		31.4
			Hook	SSB250H		156	107		615	33
			Toggle	SSB250T	427	156	107			25
			Sheave Only	SSB25022						9.4
300	26	15000	Swivel Shackle	SSB300S		164	123	798		45
			Hook	SSB300H		164	123		748	48
			Toggle	SSB300T	485	164	123			33
			Sheave Only	SSB30026						13
350	28	20000	Swivel Shackle	SSB350S		190	125	946		73.6
			Hook	SSB350H		190	125		890	78
			Toggle	SSB350T	585	190	125			53
			Sheave Only	SSB35028						18
400	32	25000	Swivel Shackle	SSB400S		208	136	1014		115
			Hook	SSB400H		208	136		953	124
			Toggle	SSB400T	660	208	136			96
			Sheave Only	SSB40032						32



PWB Sheaves and Sheave Blocks

These manually operated Sheaves and Sheave Blocks have been specifically designed for use with manilla and wire rope. With fully interchangeable sheaves to minimise storage problems, and supplied with either drop forged swivel hooks or eyes, this practical and versatile range comes with becketts standard on all single and double blocks. Bronze bushes and safety latches are also standard across the range.



General Sheave Information

Sheave Diameter (mm)	63	75	100	125	150	200
Rope Dia - Manilla (mm)	10	12	16	20	24	32
Rope Dia - Wire (mm)	5	6	8	10	12	16
Axle Dia (mm)	12.5	12.5	19	22	25	35
Boss Width (mm)	20.5	20.5	25.4	29.5	33.4	46.5

Snatch Blocks

Sheave Diameter (mm)	63	75	100	125	150	200
Capacity	250kg	250kg	500kg	1 tonne	1 tonne	2 tonne

Single Sheave Block

Sheave Diameter (mm)	63	75	100	125	150	200
Capacity	250kg	250kg	500kg	1 tonne	1 tonne	2 tonne

Double Sheave Block

Sheave Diameter (mm)	63	75	100	125	150	200
Capacity	250kg	250kg	500kg	1 tonne	1 tonne	-

Sheaves Only

Sheave Diameter (mm)	63	75	100	125	150	200
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