product catalogue
strands and ropes

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structure

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foreword

The following information is meant as a guideline for you.

We produce by national and international standards, such as DIN, IEC, VDE, BS, ASTM and UL.

Our products are used in low and high voltage technology, control engineering, signaling technique, high frequency applications and many more.

Of course, our flexibility also allows us to produce according to your individual requirements.

We are looking forward to your request.

materials

bare copper		
copper wire	Cu-ETP1 ETP	(acc. to DIN EN 13602) (acc. to ASTM B 3)
material	CW003A C11040	(acc. to DIN EN 13602) (UNS number)
conductivity	min. 58,5 m/s	
density	8,925 kg/dm^3	
bare oxigen-free copper		
copper wire	Cu-OF1 OFE	(acc. to DIN EN 13602) (acc. to ASTM B 3)
material	CW007A C10100	(acc. to DIN EN 13602) (UNS number)
conductivity	min. 58,5 m/s	
density	8,925 kg/dm^3	
tin-plated copper		
copper wire	Cu-ETP1 ETP	(acc. to DIN EN 13602) (acc. to ASTM B 3)
material	CW003A C 11040	(acc. to DIN EN 13602) (UNS number)
tin	SN 99,90	(acc. to DIN 1704)
coating thickness	acc. to DIN EN 13602	or acc. to customer requirement
conductivity	min. 58,5 m/s	
density	8,925 kg/dm^3	

reels

reel-type	DIN	flangue-Ø in mm	core-Ø in mm	mount-Ø in mm	filling weight in kg (ca.)
plastic reels					
160 K 250 K 355 K	46399 46399 46399	160 250 355	100 160 224	22 22 / 127 36	6-8 18-20 42
aluminum reels					
250 A	46397	250	150	127	20-25
iron reels					
400 E 560 E 630 E 1000 E	46395 46397 46395 46395	400 560 630 1000	160 315 355 500	56 127 127 80	110 265 380 1600

We can also check wether reels provided by you can be used.

types of strands

general

To differentiate various types of strands, there are some quality criteria and different constructions. You can find those constructions in the following. We classify strands into different groups. Depending on our customers' requirements, strands can be manufactured individually. From a simple bunched strand with a rough character, up to an unilay strand with an evenly smooth surface: there are different construction requirements for every type.

defined terms for strands and ropes

bunched strand
Bunched strands are produced in one work step and have an irregular structure. They are made from single- or multiwires.

symmetrically bunched strand (sym.-bunched or concentric bunched)
This type has a symmetric number of wires (1+6+12+18 etc.). The outer layers are placed around one wire in the middle. In this construction, the lay length is appr. 16 times the overall diameter and the lay directions is consistent.

semi-concentric strand (semi-conc.)
This type has a non-symmetric number of wires. As in the concentric strand, the outer wires are placed around one wire in the center. The lay length is appr. 10 times the overall diameter. The lay direction is also consistent. To create an even and smooth surface, this strand gets compacted.

unilay strand (unilay)
Unilay strands have a symmetric number of wires (1+6+12+18 etc.) with a consistent lay direction. The lay length must not be larger than 12 times the overall diameter. These strands are also compacted to create an even surface.

Unidirectional-concentric strand (unidir. – conc.)
This strand is produced in multiple work steps. The lay length increases with every layer from the inside to the outside. The lay direction stays the same.

Conventional-concentric strands (conv. – conc.)

This type is also produced in multiple work steps. The lay length increases in every layer from the inside to the outside. And the lay direction changes with every layer.

constructions

Ropes are made of multiple strands instead of single- and multiwires.

Rope stranding has the advantage of increasing flexibility by using a larger number of thinner wires while maintaining tighter diameter tolerances than simple bunchend strands have.

Many different constructions are possible. They can contain hundreds or even thousands of wires.

standard products

bare and tin-plated standard strands and ropes

cross section	*diameter*	*product*	*construction*	*nom. weigth*
0,01 mm²	0,15 mm	7 x 0,050 mm	1+6	0,12 kg / km
0,02 mm²	0,18 mm	10 x 0,050 mm	1 x bunched	0,18 kg / km
0,03 mm²	0,24 mm	7 x 0,079 mm	1+6	0,31 kg / km
0,04 mm²	0,26 mm	20 x 0,050 mm	1 x bunched	0,35 kg / km
0,04 mm²	0,25 mm	19 x 0,050 mm	1+6+12	0,33 kg / km
0,05 mm²	0,29 mm	26 x 0,050 mm	1 x bunched	0,46 kg / km
0,06 mm²	0,31 mm	30 x 0,050 mm	1 x bunched	0,53 kg / km
0,07 mm²	0,35 mm	19 x 0,070 mm	1+6+12	0,65 kg / km
0,08 mm²	0,36 mm	40 x 0,050 mm	1 x bunched	0,70 kg / km
0,08 mm²	0,36 mm	10 x 0,100 mm	1 x bunched	0,70 kg / km
0,08 mm²	0,36 mm	7 x 0,120 mm	1+6	0,71 kg / km
0,09 mm²	0,40 mm	19 x 0,079 mm	1+6+12	0,83 kg / km
0,09 mm²	0,38 mm	7 x 0,127 mm	1+6	0,79 kg / km
0,09 mm²	0,39 mm	7 x 0,130 mm	1+6	0,83 kg / km
0,10 mm²	0,41 mm	51 x 0,050 mm	1 x bunched	0,89 kg / km
0,11 mm²	0,43 mm	14 x 0,100 mm	1 x bunched	0,98 kg / km
0,11 mm²	0,43 mm	7 x 0,142 mm	1+6	0,99 kg / km
0,12 mm²	0,45 mm	7 x 0,150 mm	1+6	1,10 kg / km
0,14 mm²	0,49 mm	72 x 0,050 mm	1 x bunched	1,26 kg / km
0,14 mm²	0,48 mm	36 x 0,070 mm	1 x bunched	1,24 kg / km
0,14 mm²	0,49 mm	18 x 0,100 mm	1 x bunched	1,26 kg / km
0,14 mm²	0,48 mm	7 x 0,160 mm	1+6	1,26 kg / km
0,15 mm²	0,51 mm	40 x 0,070 mm	1 x bunched	1,37 kg / km
0,15 mm²	0,50 mm	19 x 0,100 mm	1+6+12	1,33 kg / km
0,20 mm²	0,58 mm	102 x 0,050 mm	1 x bunched	1,79 kg / km
0,20 mm²	0,58 mm	52 x 0,070 mm	1 x bunched	1,79 kg / km
0,20 mm²	0,56 mm	24 x 0,100 mm	1 x bunched	1,68 kg / km
0,20 mm²	0,61 mm	28 x 0,100 mm	1 x bunched	1,96 kg / km
0,20 mm²	0,55 mm	19 x 0,110 mm	1+6+12	1,61 kg / km
0,20 mm²	0,54 mm	7 x 0,180 mm	1+6	1,59 kg / km
0,25 mm²	0,65 mm	128 x 0,050 mm	1 x bunched	2,24 kg / km
0,25 mm²	0,70 mm	128 x 0,050 mm	1x20 + 6x18	2,24 kg / km
0,25 mm²	0,65 mm	65 x 0,070 mm	1 x bunched	2,23 kg / km
0,25 mm²	0,65 mm	32 x 0,100 mm	1 x bunched	2,24 kg / km
0,25 mm²	0,64 mm	19 x 0,127 mm	1+6+12	2,15 kg / km
0,25 mm²	0,65 mm	19 x 0,130 mm	1+6+12	2,25 kg / km
0,25 mm²	0,65 mm	14 x 0,150 mm	1 x bunched	2,21 kg / km

0,35 mm²	0,77 mm	180 x 0,050 mm	1 x bunched	3,16 kg / km
0,35 mm²	0,76 mm	90 x 0,070 mm	1 x bunched	3,09 kg / km
0,35 mm²	0,83 mm	91 x 0,070 mm	7x13	3,13 kg / km
0,35 mm²	0,75 mm	42 x 0,100 mm	1 x bunched	2,95 kg / km
0,35 mm²	0,77 mm	37 x 0,110 mm	1+6+12+18	3,14 kg / km
0,35 mm²	0,73 mm	19 x 0,145 mm	1+6+12	2,80 kg / km
0,35 mm²	0,75 mm	19 x 0,150 mm	1+6+12	3,00 kg / km
0,35 mm²	0,76 mm	11 x 0,200 mm	1 x bunched	3,09 kg / km
0,35 mm²	0,75 mm	7 x 0,250 mm	1+6	3,07 kg / km
0,40 mm²	0,80 mm	19 x 0,160 mm	1+6+12	3,41 kg / km
0,40 mm²	0,80 mm	12 x 0,200 mm	1 x bunched	3,37 kg / km
0,40 mm²	0,78 mm	7 x 0,260 mm	1+6	3,32 kg / km
0,50 mm²	0,99 mm	256 x 0,050 mm	1x40 + 6x36	4,49 kg / km
0,50 mm²	0,91 mm	128 x 0,070 mm	1 x bunched	4,40 kg / km
0,50 mm²	0,91 mm	129 x 0,070 mm	1 x bunched	4,43 kg / km
0,50 mm²	0,92 mm	64 x 0,100 mm	1 x bunched	4,49 kg / km
0,50 mm²	0,91 mm	28 x 0,150 mm	1 x bunched	4,42 kg / km
0,50 mm²	0,90 mm	19 x 0,180 mm	1+6+12	4,32 kg / km
0,50 mm²	0,92 mm	16 x 0,200 mm	1 x bunched	4,49 kg / km
0,50 mm²	0,90 mm	7 x 0,300 mm	1+6	4,42 kg / km
0,60 mm²	1,00 mm	19 x 0,200 mm	1+6+12	5,33 kg / km
0,60 mm²	0,96 mm	7 x 0,320 mm	1+6	5,03 kg / km
0,75 mm²	1,22 mm	385 x 0,050 mm	7x55	6,75 kg / km
0,75 mm²	1,12 mm	195 x 0,070 mm	1 x bunched	6,70 kg / km
0,75 mm²	1,21 mm	196 x 0,070 mm	7x28	6,74 kg / km
0,75 mm²	1,13 mm	96 x 0,100 mm	1 x bunched	6,73 kg / km
0,75 mm²	1,12 mm	42 x 0,150 mm	1 x bunched	6,63 kg / km
0,75 mm²	1,12 mm	37 x 0,160 mm	1+6+12+18	6,64 kg / km
0,75 mm²	1,13 mm	24 x 0,200 mm	1 x bunched	6,73 kg / km
0,75 mm²	1,10 mm	19 x 0,220 mm	1+6+12	6,45 kg / km
0,75 mm²	1,11 mm	7 x 0,370 mm	1+6	6,72 kg / km
0,80 mm²	1,25 mm	408 x 0,050 mm	1x48 + 6x60	7,15 kg / km
0,80 mm²	1,18 mm	65 x 0,127 mm	1 x bunched	7,35 kg / km
0,80 mm²	1,17 mm	16 x 0,254 mm	1 x bunched	7,24 kg / km
1,00 mm²	1,40 mm	511 x 0,050 mm	7x73	8,96 kg / km
1,00 mm²	1,40 mm	259 x 0,070 mm	7x37	8,90 kg / km
1,00 mm²	1,30 mm	128 x 0,100 mm	1 x bunched	8,98 kg / km
1,00 mm²	1,40 mm	128 x 0,100 mm	1x20 + 6x18	8,98 kg / km
1,00 mm²	1,29 mm	56 x 0,150 mm	1 x bunched	8,84 kg / km
1,00 mm²	1,26 mm	37 x 0,180 mm	1+6+12+18	8,41 kg / km
1,00 mm²	1,30 mm	32 x 0,200 mm	1 x bunched	8,98 kg / km
1,00 mm²	1,25 mm	19 x 0,250 mm	1+6+12	8,33 kg / km
1,00 mm²	1,29 mm	14 x 0,300 mm	1 x bunched	8,84 kg / km
1,00 mm²	1,20 mm	7 x 0,400 mm	1+6	7,86 kg / km

1,00 mm²	1,29 mm	7 x 0,430 mm	1+6	9,08 kg / km
1,20 mm²	1,44 mm	19 x 0,287 mm	1+6+12	10,98 kg / km
1,30 mm²	1,49 mm	26 x 0,254 mm	1 x bunched	11,76 kg / km
1,30 mm²	1,50 mm	19 x 0,300 mm	1+6+12	11,99 kg / km
1,50 mm²	1,72 mm	770 x 0,050 mm	7x110	13,50 kg / km
1,50 mm²	1,72 mm	392 x 0,070 mm	7x56	13,47 kg / km
1,50 mm²	1,59 mm	190 x 0,100 mm	1 x bunched	13,33 kg / km
1,50 mm²	1,73 mm	196 x 0,100 mm	7x28	13,75 kg / km
1,50 mm²	1,58 mm	84 x 0,150 mm	1 x bunched	13,26 kg / km
1,50 mm²	1,59 mm	48 x 0,200 mm	1 x bunched	13,47 kg / km
1,50 mm²	1,58 mm	37 x 0,226 mm	1+6+12+18	13,25 kg / km
1,50 mm²	1,57 mm	30 x 0,250 mm	1 x bunched	13,15 kg / km
1,50 mm²	1,60 mm	19 x 0,320 mm	1+6+12	13,65 kg / km
1,50 mm²	1,56 mm	7 x 0,520 mm	1+6	13,28 kg / km
2,00 mm²	1,99 mm	1.029 x 0,050 mm	7x3x49	18,04 kg / km
2,00 mm²	1,99 mm	525 x 0,070 mm	7x75	18,04 kg / km
2,00 mm²	1,98 mm	256 x 0,100 mm	1x40 + 6x36	17,95 kg / km
2,00 mm²	1,93 mm	45 x 0,250 mm	1 x bunched	19,73 kg / km
2,00 mm²	1,75 mm	37 x 0,250 mm	1+6+12+18	16,22 kg / km
2,00 mm²	1,87 mm	41 x 0,254 mm	1 x bunched	18,55 kg / km
2,00 mm²	1,81 mm	19 x 0,361 mm	1+6+12	17,37 kg / km
2,00 mm²	1,80 mm	7 x 0,600 mm	1+6	17,67 kg / km
2,50 mm²	2,20 mm	1.260 x 0,050 mm	7x3x60	22,09 kg / km
2,50 mm²	2,21 mm	651 x 0,070 mm	7x93	22,37 kg / km
2,50 mm²	2,22 mm	322 x 0,100 mm	7x46	22,58 kg / km
2,50 mm²	2,00 mm	135 x 0,150 mm	1 x bunched	21,30 kg / km
2,50 mm²	2,04 mm	140 x 0,150 mm	1 x bunched	22,09 kg / km
2,50 mm²	2,20 mm	140 x 0,150 mm	7x20	22,09 kg / km
2,50 mm²	2,06 mm	80 x 0,200 mm	1 x bunched	22,44 kg / km
2,50 mm²	2,03 mm	50 x 0,250 mm	1 x bunched	21,92 kg / km
2,50 mm²	2,01 mm	7 x 0,670 mm	1+6	22,04 kg / km
3,00 mm²	2,43 mm	1.540 x 0,050 mm	7x4x55	27,00 kg / km
3,00 mm²	2,43 mm	784 x 0,070 mm	7x112	26,94 kg / km
3,00 mm²	2,41 mm	378 x 0,100 mm	7x54	26,51 kg / km
3,00 mm²	2,36 mm	105 x 0,200 mm	1 x bunched	29,46 kg / km
3,00 mm²	2,35 mm	65 x 0,254 mm	1 x bunched	29,41 kg / km
3,00 mm²	2,25 mm	7 x 0,750 mm	1+6	27,62 kg / km
3,50 mm²	2,62 mm	1.785 x 0,050 mm	7x3x85	31,30 kg / km
3,50 mm²	2,44 mm	50 x 0,300 mm	1 x bunched	31,56 kg / km
4,00 mm²	2,86 mm	2.058 x 0,050 mm	7x7x42	36,09 kg / km
4,00 mm²	2,79 mm	1.036 x 0,070 mm	7x148	35,60 kg / km
4,00 mm²	2,80 mm	511 x 0,100 mm	7x73	35,84 kg / km
4,00 mm²	2,58 mm	224 x 0,150 mm	1 x bunched	35,35 kg / km
4,00 mm²	2,78 mm	224 x 0,150 mm	7x32	35,35 kg / km

4,00 mm²	2,58 mm	126 x 0,200 mm	1 x bunched	35,35 kg / km
4,00 mm²	2,57 mm	80 x 0,250 mm	1 x bunched	35,07 kg / km
4,00 mm²	2,58 mm	56 x 0,300 mm	1 x bunched	35,35 kg / km
5,00 mm²	3,16 mm	1.330 x 0,070 mm	7x190	45,71 kg / km
5,00 mm²	3,13 mm	637 x 0,100 mm	7x91	44,68 kg / km
5,00 mm²	2,98 mm	104 x 0,254 mm	1 x bunched	47,06 kg / km
5,00 mm²	2,99 mm	75 x 0,300 mm	1 x bunched	47,34 kg / km
6,00 mm²	3,50 mm	3.087 x 0,050 mm	7x7x63	54,13 kg / km
6,00 mm²	3,44 mm	1.575 x 0,070 mm	7x3x75	54,13 kg / km
6,00 mm²	3,41 mm	756 x 0,100 mm	7x108	53,02 kg / km
6,00 mm²	3,44 mm	343 x 0,150 mm	7x49	54,13 kg / km
6,00 mm²	3,16 mm	189 x 0,200 mm	1 x bunched	53,02 kg / km
6,00 mm²	3,41 mm	189 x 0,200 mm	7x27	53,02 kg / km
6,00 mm²	3,16 mm	84 x 0,300 mm	1 x bunched	53,02 kg / km
6,00 mm²	3,15 mm	7 x 1,050 mm	1+6	54,13 kg / km
7,00 mm²	3,71 mm	896 x 0,100 mm	7x128	62,84 kg / km
7,00 mm²	3,71 mm	399 x 0,150 mm	7x57	62,96 kg / km
7,00 mm²	3,71 mm	224 x 0,200 mm	7x32	62,84 kg / km
8,00 mm²	3,95 mm	2.079 x 0,070 mm	7x3x99	71,45 kg / km
8,00 mm²	3,96 mm	256 x 0,200 mm	1x40 + 6x36	71,82 kg / km
8,50 mm²	3,79 mm	168 x 0,254 mm	1 x bunched	76,02 kg / km
8,50 mm²	4,08 mm	168 x 0,254 mm	7x24	76,02 kg / km
10,00 mm²	4,35 mm	2.520 x 0,070 mm	7x3x120	86,60 kg / km
10,00 mm²	4,43 mm	1.281 x 0,100 mm	7x183	89,84 kg / km
10,00 mm²	4,40 mm	560 x 0,150 mm	7x80	88,37 kg / km
10,00 mm²	4,45 mm	322 x 0,200 mm	7x46	90,34 kg / km
10,00 mm²	4,11 mm	80 x 0,400 mm	1 x bunched	89,77 kg / km
15,00 mm²	5,39 mm	840 x 0,150 mm	7x3x40	132,56 kg / km
16,00 mm²	5,66 mm	4.116 x 0,070 mm	7x7x84	141,45 kg / km
16,00 mm²	5,59 mm	2.037 x 0,100 mm	7x3x97	142,87 kg / km
16,00 mm²	5,52 mm	882 x 0,150 mm	7x126	139,19 kg / km
16,00 mm²	5,60 mm	511 x 0,200 mm	7x73	143,36 kg / km
16,00 mm²	5,56 mm	322 x 0,250 mm	7x46	141,15 kg / km
16,00 mm²	5,16 mm	126 x 0,400 mm	1 x bunched	141,39 kg / km
16,00 mm²	5,56 mm	126 x 0,400 mm	7x18	141,39 kg / km
20,00 mm²	6,37 mm	1.176 x 0,150 mm	7x168	185,58 kg / km
22,00 mm²	6,50 mm	133 x 0,455 mm	7x19	193,11 kg / km
25,00 mm²	7,10 mm	6.468 x 0,070 mm	7x7x132	222,28 kg / km
25,00 mm²	7,11 mm	3.185 x 0,100 mm	7x7x65	223,38 kg / km
25,00 mm²	6,97 mm	1.407 x 0,150 mm	7x3x67	222,03 kg / km
25,00 mm²	7,00 mm	798 x 0,200 mm	7x114	223,87 kg / km
25,00 mm²	7,00 mm	511 x 0,250 mm	7x73	224,00 kg / km
25,00 mm²	6,44 mm	196 x 0,400 mm	1 x bunched	219,95 kg / km
25,00 mm²	6,94 mm	196 x 0,400 mm	7x28	219,95 kg / km

35,00 mm²	8,46 mm	4.508 x 0,100 mm	7x7x92	316,17 kg / km
35,00 mm²	8,37 mm	1.960 x 0,150 mm	7x7x40	309,30 kg / km
35,00 mm²	8,27 mm	1.113 x 0,200 mm	7x3x53	312,25 kg / km
35,00 mm²	8,28 mm	714 x 0,250 mm	7x102	312,98 kg / km
35,00 mm²	8,27 mm	495 x 0,300 mm	1x75 + 6x70	312,46 kg / km
35,00 mm²	8,08 mm	266 x 0,400 mm	7x38	298,50 kg / km
35,00 mm²	8,29 mm	280 x 0,400 mm	7x40	314,21 kg / km
50,00 mm²	10,05 mm	12.985 x 0,070 mm	7x7x5x53	446,25 kg / km
50,00 mm²	10,06 mm	6.370 x 0,100 mm	7x7x130	446,77 kg / km
50,00 mm²	9,83 mm	2.800 x 0,150 mm	7x5x80	441,86 kg / km
50,00 mm²	9,90 mm	1.596 x 0,200 mm	7x3x76	447,75 kg / km
50,00 mm²	9,90 mm	399 x 0,400 mm	7x57	447,75 kg / km
70,00 mm²	11,90 mm	8.918 x 0,100 mm	7x7x182	637,38 kg / km
70,00 mm²	11,84 mm	3.920 x 0,150 mm	7x7x80	630,38 kg / km
70,00 mm²	11,69 mm	2.226 x 0,200 mm	7x3x106	636,38 kg / km
70,00 mm²	11,68 mm	987 x 0,300 mm	7x3x47	634,88 kg / km
70,00 mm²	11,73 mm	560 x 0,400 mm	7x80	640,38 kg / km
70,00 mm²	11,70 mm	357 x 0,500 mm	7x51	637,88 kg / km
90,00 mm²	13,50 mm	1.274 x 0,300 mm	7x7x26	819,49 kg / km
95,00 mm²	13,87 mm	24.696 x 0,070 mm	7x7x3x168	864,88 kg / km
95,00 mm²	13,92 mm	12.201 x 0,100 mm	7x7x3x83	872,02 kg / km
95,00 mm²	13,88 mm	5.390 x 0,150 mm	7x7x110	866,77 kg / km
95,00 mm²	13,78 mm	2.989 x 0,200 mm	7x7x61	854,51 kg / km
95,00 mm²	13,61 mm	483 x 0,500 mm	7x69	863,02 kg / km

special products

semi-concentric strands				
0,50 mm²	0,90 mm	16 x 0,200 mm	4+12	4,49 kg / km
0,75 mm²	1,11 mm	24 x 0,200 mm	1+8+15	6,73 kg / km
1,00 mm²	1,28 mm	32 x 0,200 mm	5+10+17	8,98 kg / km
1,50 mm²	1,55 mm	30 x 0,250 mm	6+12+12	13,15 kg / km
2,50 mm²	1,94 mm	50 x 0,250 mm	3+9+16+22	21,92 kg / km
4,00 mm²	2,50 mm	56 x 0,300 mm	5+11+17+23	35,35 kg / km
6,00 mm²	3,02 mm	84 x 0,300 mm	5+11+17+23+28	53,02 kg / km

central bound strands				
0,14 mm²	0,48 mm	7 x 0,160 mm	1+6	1,26 kg / km
0,22 mm²	0,60 mm	7 x 0,200 mm	1+6	1,96 kg / km
0,35 mm²	0,76 mm	7 x 0,254 mm	1+6	3,17 kg / km
0,50 mm²	0,90 mm	7 x 0,300 mm	1+6	4,42 kg / km

tin-compacted strands				
0,14 mm²	0,48 mm	7 x 0,160 mm	1+6	1,32 kg / km
0,22 mm²	0,60 mm	7 x 0,200 mm	1+6	2,13 kg / km
0,35 mm²	0,76 mm	7 x 0,254 mm	1+6	3,33 kg / km
0,50 mm²	0,90 mm	7 x 0,300 mm	1+6	4,55 kg / km

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