Product Range Copper Strands

Overview

Foreword

The following product lists are meant for you as small guideline assistance.

We produce by national and international standards after all courses like e.g.: DIN, IEC, VDE, BS, ASTM, UL

The flexibility of our production ensures naturally also to orient by the individual customer's requests and manufacture accordingly according to your requirements.

We would be very pleased about your inquiry.

Materials

copper bare		
copper wire	Cu - ETP1	(by DIN EN 13602)
	ETP	(by ASTM B 3)
material	CW003A	(by DIN EN 13602)
	C 11040	(UNS number)
conductivity	min. 58,5 m/	
density	8,925 Kg/dm³	
copper bare oxygenfree		
copper wire	Cu - OF1	(by DIN EN 13602)
	OFE	(by ASTM B 3)
material	CW007A	(by DIN EN 13602)
	C 10100	(UNS number)
conductivity	min. 58,5 m/	
density	8,925 Kg/dm³	
copper tinplated		
copper wire	Cu - ETP1	(by DIN EN 13602)
	ETP	(by ASTM B 3)
material	CW003A	(by DIN EN 13602)
	C 11040	(UNS number)
tin	SN 99,90	(by DIN 1704)
tinlayer	by DIN EN 13602 or	
	by customers requirements	
conductivity	min. 58,5 m/	
density	8,925 Kg/dm³	

Packaging

type of spool	DIN/Norm	Flange- Ø in mm	Core- Ø in mm	Bore- Ø in mm	Fillweight app. in Kg
Plastic spools					
160 KS	46399	160	100	22	6 - 8
250 KS	46399	250	160	22 / 127	18 - 20
355 KS	46399	355	224	36	42
Aluminium spools					
250 A	46397	250	150	127	20 - 25
Steel spools					
220 E	ANKA	220	80	36	17
315 E	46399	315	160	36	40
400 E	46395	400	160	56	110
560 E	46397	560	315	127	265
630 E	46395	630	355	127	380
1000 E	46395	1000	500	80	1600

Type of strands

Generally
Around the strand types from each other to differentiate there are different quality criteria and structures to the manufacturing of strands. These kind of structures are described in the following. We devide the copper strands into different kinds. Depending upon customer´s request, the copper strands can be individually manufactured. From the simple bunched strand with a rough character, up to a unilay strand with evenly smooth surface. For each strand other construction requirements are valid.

Fixed names for strands and ropes

Bunched strand (bundle strand)
Bunched strands are manufactured in one step with irregular structure, from singlewires or multiwires bunched to a bundle.

Symmetric bunched strand (sym. - bunched or concentric bunched)
This types of strands having symmetric member of wires (1 + 6 + 12 + 18 etc.) The outer layers are always regular around a center wire. The lay length is app. 16 times the overall diameter in an uniform lay direction.

Semiconcentric strand (semi - conc.)
This types of strands having non symmetric member of wires (3+9+16 etc.) The outer layers are always regular around a center wire. The lay length is app. 10 times the overall diameter in an uniform lay direction. To get an very smooth structure, this strand is compressed.

Unilay strand (unilay)
This types of strands having symmetric member of wires (1 + 6 + 12 + 18 etc.) The outer layers are always regular around a center wire. The lay length is app. 12 times the overall diameter in an uniform lay direction. To get an very smooth structure, this strand is compressed.

Konventional concentric strand (konv. - conc. or true concentric)
is characterized by a cenral wire surrounded by one or more layers of helically laid wires in a geometric pattern, with alternately reversed lay direction and increasing lay length.

Unidirectional concentric strand (unidir. - conc.)
is characterized by a cenral wire surrounded by one or more layers of helically laid wires in a geometric pattern, with the same lay direction and increasing lay length

Strand constructions

strand constructions (ropes)

ropes
wire conctructions consist of single strands assembled together into concentric or bunched configurations. Rope constructions consist of concentric or bunched members stranded together into a final concentric or bunched configuration.

Rope stranding has the advantage of increasing flexibilty by using a larger number of finer strands while maintaining a tighter diameter tolerance than a simple bunched construction. Ropes are more evident in the larger AWG sizes, such as AWG 8 and larger, but there also many applications that require the flexibility in the smaller gages. Constructions vary and can contain hundreds or thousands of strands

Standard products

Annealed copper strands and ropes in bare copper or tin plated copper

cross-cection	*diameter of strand*	*Product*	*Structure*	*Weight nom.*
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	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	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	bunched	0,46 kg / km
0,06 mm²	0,31 mm	30 x 0,050 mm	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	bunched	0,70 kg / km
0,08 mm²	0,36 mm	10 x 0,100 mm	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	bunched	0,89 kg / km
0,11 mm²	0,43 mm	14 x 0,100 mm	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	bunched	1,26 kg / km
0,14 mm²	0,48 mm	36 x 0,070 mm	bunched	1,24 kg / km
0,14 mm²	0,49 mm	37 x 0,070 mm	bunched	1,27 kg / km
0,14 mm²	0,49 mm	18 x 0,100 mm	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	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	bunched	1,79 kg / km
0,20 mm²	0,58 mm	52 x 0,070 mm	bunched	1,79 kg / km
0,20 mm²	0,56 mm	24 x 0,100 mm	bunched	1,68 kg / km
0,20 mm²	0,61 mm	28 x 0,100 mm	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	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	bunched	2,23 kg / km
0,25 mm²	0,65 mm	32 x 0,100 mm	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 xverwürgt	2,21 kg / km
0,25 mm²	0,63 mm	7 x 0,210 mm	1+6	2,17 kg / km
0,35 mm²	0,77 mm	180 x 0,050 mm	bunched	3,16 kg / km
0,35 mm²	0,76 mm	90 x 0,070 mm	bunched	3,09 kg / km

cross-cection	*diameter of strand*	*Product*	*Structure*	*Weight nom.*
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	bunched	2,95 kg / km
0,35 mm²	0,75 mm	43 x 0,100 mm	bunched	3,02 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	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	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	bunched	4,40 kg / km
0,50 mm²	0,91 mm	129 x 0,070 mm	bunched	4,43 kg / km
0,50 mm²	0,92 mm	64 x 0,100 mm	bunched	4,49 kg / km
0,50 mm²	0,91 mm	28 x 0,150 mm	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	0,90 mm	16 x 0,195 mm	bunched	4,27 kg / km
0,50 mm²	0,92 mm	16 x 0,200 mm	bunched	4,49 kg / km
0,50 mm²	0,86 mm	7 x 0,287 mm	1+6	4,04 kg / km
0,50 mm²	0,90 mm	7 x 0,300 mm	1+6	4,42 kg / km
0,60 mm²	0,98 mm	19 x 0,195 mm	1+6+12	5,07 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	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	bunched	6,73 kg / km
0,75 mm²	1,12 mm	42 x 0,150 mm	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	1,10 mm	24 x 0,195 mm	bunched	6,40 kg / km
0,75 mm²	1,10 mm	23 x 0,200 mm	bunched	6,45 kg / km
0,75 mm²	1,13 mm	24 x 0,200 mm	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	bunched	7,35 kg / km
0,80 mm²	1,17 mm	16 x 0,254 mm	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	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	bunched	8,84 kg / km
1,00 mm²	1,30 mm	57 x 0,150 mm	bunched	8,99 kg / km
1,00 mm²	1,26 mm	37 x 0,180 mm	1+6+12+18	8,41 kg / km

cross-cection	*diameter of strand*	*Product*	*Structure*	*Weight nom.*
1,00 mm²	1,27 mm	32 x 0,195 mm	bunched	8,53 kg / km
1,00 mm²	1,26 mm	30 x 0,200 mm	bunched	8,42 kg / km
1,00 mm²	1,30 mm	32 x 0,200 mm	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	1,27 mm	19 x 0,254 mm	1+6+12	8,60 kg / km
1,00 mm²	1,30 mm	19 x 0,260 mm	1+6+12	9,01 kg / km
1,00 mm²	1,29 mm	14 x 0,300 mm	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	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	bunched	13,33 kg / km
1,50 mm²	1,70 mm	189 x 0,100 mm	7x27	13,26 kg / km
1,50 mm²	1,73 mm	196 x 0,100 mm	7x28	13,75 kg / km
1,50 mm²	1,54 mm	80 x 0,150 mm	bunched	12,62 kg / km
1,50 mm²	1,58 mm	84 x 0,150 mm	bunched	13,26 kg / km
1,50 mm²	1,59 mm	48 x 0,200 mm	bunched	13,47 kg / km
1,50 mm²	1,73 mm	49 x 0,200 mm	7x7	13,75 kg / km
1,50 mm²	1,58 mm	37 x 0,226 mm	1+6+12+18	13,25 kg / km
1,50 mm²	1,52 mm	28 x 0,250 mm	bunched	12,27 kg / km
1,50 mm²	1,57 mm	30 x 0,250 mm	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	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	bunched	18,55 kg / km
2,00 mm²	1,70 mm	19 x 0,340 mm	1+6+12	15,40 kg / km
2,00 mm²	1,81 mm	19 x 0,361 mm	1+6+12	17,37 kg / km
2,00 mm²	1,85 mm	19 x 0,370 mm	1+6+12	18,24 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	bunched	21,30 kg / km
2,50 mm²	2,04 mm	140 x 0,150 mm	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	bunched	22,44 kg / km
2,50 mm²	1,97 mm	47 x 0,250 mm	bunched	20,60 kg / km

cross-cection	*diameter of strand*	*Product*	*Structure*	*Weight nom.*
2,50 mm²	2,03 mm	50 x 0,250 mm	bunched	21,92 kg / km
2,50 mm²	2,05 mm	19 x 0,410 mm	1+6+12	22,40 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	bunched	29,46 kg / km
3,00 mm²	2,35 mm	65 x 0,254 mm	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	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	bunched	35,35 kg / km
4,00 mm²	2,60 mm	228 x 0,150 mm	bunched	35,98 kg / km
4,00 mm²	2,81 mm	228 x 0,150 mm	1x36 + 6x32	35,98 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	bunched	35,35 kg / km
4,00 mm²	2,57 mm	80 x 0,250 mm	bunched	35,07 kg / km
4,00 mm²	2,58 mm	56 x 0,300 mm	bunched	35,35 kg / km
4,00 mm²	2,60 mm	19 x 0,520 mm	1+6+12	36,03 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	bunched	47,06 kg / km
5,00 mm²	2,99 mm	75 x 0,300 mm	bunched	47,34 kg / km
5,00 mm²	3,00 mm	19 x 0,600 mm	1+6+12	47,97 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	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	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	bunched	76,02 kg / km
8,50 mm²	4,08 mm	168 x 0,254 mm	7x24	76,02 kg / km
8,60 mm²	4,10 mm	133 x 0,287 mm	7x19	76,83 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

cross-cection	*diameter of strand*	*Product*	*Structure*	*Weight nom.*
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	bunched	89,77 kg / km
10,00 mm²	4,43 mm	80 x 0,400 mm	1x14 + 6x11	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	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	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

semiconcentric strands				
cross-cection	*diameter of strand*	*Product*	*Structure*	*Weight nom.*
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	1,27 mm	56 x 0,150 mm	5+11+17+23	8,84 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 bounded strands				
cross-cection	*diameter of strand*	*Product*	*Structure*	*Weight nom.*
0,05 mm²	0,30 mm	7 x 0,100 mm	1+6	0,51 kg / km
0,09 mm²	0,38 mm	7 x 0,127 mm	1+6	0,79 kg / km
0,12 mm²	0,45 mm	7 x 0,150 mm	1+6	1,10 kg / km
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
0,56 mm²	0,96 mm	7 x 0,320 mm	1+6	5,03 kg / km

compact tinned (overcoatet)				
cross-cection	*diameter of strand*	*Product*	*Structure*	*Weight nom.*
0,05 mm²	0,30 mm	7 x 0,100 mm	1+6	0,54 kg / km
0,09 mm²	0,38 mm	7 x 0,127 mm	1+6	0,79 kg / km
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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