

### Bare Soft and Hard Drawn Copper Stranded



#### (a) Description

- Plain bare soft drawn Copper conductors as per IEC 60228 class 2.
- Plain bare hard drawn Copper conductors as per DIN 48201.

#### (b) Application

- Soft drawn Copper conductors are used for grounding electrical systems, where high conductivity and flexibility are required.
- Hard drawn Copper conductors are used in overhead electrical distribution networks.

#### (c) Technical data

Relevant Standard:	IEC 60228 & DIN 48201.
Conductor :	Soft or Hard drawn Copper.
Packing Condition :	On non-returnable wooden drum.



# Overhead Transmission Lines

## (d) Product Data

Nominal Cross Sectional Area	Number and Nominal Diameter of Wires No x $\phi$	Max. DC. resistance at 20 °C	Approx. Overall Diameter	Approx. Weight
<i>mm<sup>2</sup></i>	<i>n x mm</i>	<i><math>\Omega</math>/km</i>	<i>mm</i>	<i>kg/km</i>
<b>a - Bare soft drawn</b>				
10	7 x 1.43	1.83	3.7	86.5
16	7 x 1.75	1.15	4.7	137
25	7 x 2.18	0.727	5.8	217
35	7 x 2.65	0.524	6.9	298
50	19 x 1.86	0.387	8.2	410
70	19 x 2.16	0.268	10.1	595
95	19 x 2.65	0.193	11.3	820
120	19 x 3.05	0.153	12.7	1040
150	19 x 3.38	0.124	14.1	1277
185	37 x 2.63	0.0991	15.8	1610
240	34 x 3.23	0.0754	18.2	2120
300	61 x 2.64	0.0601	20.6	2630
400	61 x 2.98	0.047	23.2	3390
500	61 x 3.33	0.0366	26.6	4420
<b>b - Bare hard drawn</b>				
10	7 x 1.35	1.829	4.1	90
16	7 x 1.70	1.154	5.1	143
25	7 x 2.10	0.7563	6.3	218
35	7 x 2.50	0.5337	7.5	310
50	7 x 3.00	0.3706	9	446
50	19 x 1.80	0.3819	9	437
70	19 x 2.10	0.2806	10.5	596
95	19 x 2.50	0.198	12.5	845
120	19 x 2.80	0.1578	14	1060
150	37 x 2.25	0.1264	15.8	1337
185	37 x 2.50	0.1024	17.5	1649
240	61 x 2.25	0.07528	20.3	2209
300	61 x 2.50	0.06097	22.5	2725
400	61 x 2.89	0.0456	26	3640
500	61 x 3.23	0.0365	29.1	4545

The above data is approximate and subjected to manufacturing tolerance.

