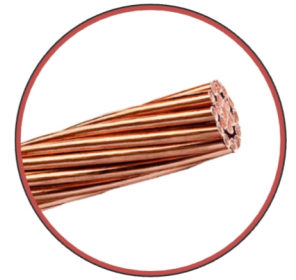


EK SPEC 180

Stranded Copper Conductor, hard drawn



1 Dimensions

Table 1 Structure and measurements.

Area (mm ²)	Wire (nominal)		Conductor (calculated values)				Standard length (m)	Available in stock
	Number of wires	Diameter (mm)	Diameter (mm)	Max. resistance (Ω/km)	Weight (kg/km)	Breaking load min. (kN)		
10 ¹⁾	7	1.37	4.1	1.67	92	4.12	5600	-
16	7	1.71	5.1	1.11	145	6.44	3450	-
25	7	2.13	6.4	0.710	225	10.0	2200	X
35	7	2.52	7.6	0.512	315	13.9	1640	X
50	7	3.02	9.1	0.356	453	20.1	1100	X
50 ¹⁾	19	1.85	9.2	0.351	463	20.5	1100	-
70 ¹⁾	7	3.57	10.7	0.255	633	28.1	800	-
70	19	2.17	10.9	0.255	638	28.1	800	X
95	19	2.52	12.6	0.189	861	37.9	600	X
95 ¹⁾	37	1.81	12.7	0.189	866	38.1	600	-
120 ¹⁾	19	2.84	14.2	0.149	1090	48.2	460	X
120	37	2.03	14.2	0.150	1090	48.0	460	-
150	37	2.27	15.9	0.120	1360	60.0	370	-
185	37	2.52	17.6	0.0975	1680	73.7	300	-
240	37	2.89	20.1	0.0752	2180	65.8	230	-
300 ¹⁾	37	3.22	22.5	0.0606	2710	119.6	183	-

¹⁾ =Not according to SEN 240103.

2 Tolerance of dimensions

Weight tolerance: ± 3 % on values in table 1.
Lay ratio: 11-14. innermost layer right-handed.

3 Form of delivery

For standard lengths in stock (see table 1). Delivered on wooden drum K9 and has a capacity of approximately 500 kg (+/- 10 %).
Other types of package and lengths can be delivered by agreement.

4 Requirements

Copper Cu-ETP

Density: 8.93 g/cm³

Resistance: See table 1

Wire diameter (mm)	Tensile Strength Min. (N/mm ²)
(1.00) - 3.50	392
(3.50) - 5.00	373

5 References

SEN 240102 Copper wire for overhead power transmission purposes.
SEN 240103 Stranded bare copper conductors for overhead power transmission purposes.

6 Miscellaneous

Wrapping test according to SEN 240102 is not done.
There are no welded joints in the stranded conductor.