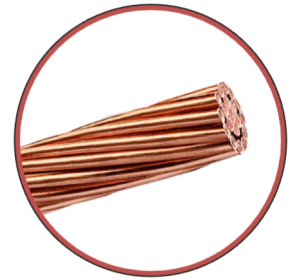


EK SPEC 181

Stranded Copper Conductor, annealed



1 Dimensions

Construction and dimensions according to table 1
Specified according to IEC 60228:Class 2.
Other types of conductors can be manufactured by agreement.

Table 1 Construction and dimensions.

Area (mm ²)	Wire (nominal)		Conductor (calculated values)		Max resistance according to IEC 60228 (Ω/km)	Standard length (m)	Available in stock
	Number of wires	Diameter (mm)	Diameter (mm)	Weight (kg/km)			
10	7	1.37	4.2	92	1.83	5600	-
16	7	1.71	5.3	145	1.15	3450	X
25	7	2.13	6.6	225	0.727	2200	X
35 ²⁾	7	2.52	7.9	315	0.524	1640	X
50 ¹⁾	7	3.02	9.1	453	0.387	1100	X
50	19	1.85	9.1	463	0.387	1100	X
70 ¹⁾	7	3.57	11.0	633	0.268	800	-
70	19	2.17	11.0	638	0.268	800	X
95	19	2.52	12.9	861	0.193	600	X
95	37	1.81	12.9	866	0.193	600	X
120 ¹⁾	19	2.84	14.5	1090	0.153	460	X
120	37	2.03	14.5	1090	0.153	460	X
150	37	2.27	16.2	1360	0.124	370	X
185	37	2.52	18.0	1680	0.0991	300	X
240 ¹⁾	37	2.89	20.6	2180	0.0754	230	X
300 ¹⁾	37	3.22	23.1	2710	0.0601	183	-

¹⁾=Not according to IEC 60228:Class 2 because of the number of wires.

²⁾=Available in stock on wooden drum 3

2 Tolerance of dimensions

Lay ratio: 11-14. innermost layer right-handed.
Tolerance of diameter ±1 % according to EN 13602

3 Form of delivery

For standard lengths in stock (see table 1). Delivered on K9 (except 35/7, which is delivered on wooden drum 3) and has a weight 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
Elongation: A_{200 mm} min 26% ((A026) acc. to EN 13602))

5 References

EN 13602 Copper and copper alloys - Drawn. round copper wire for the manufacture of electrical conductors
IEC 60228 Conductors of insulated cables

6 Miscellaneous

Wrapping test and reverse bend test according to EN 13602 is not done. There are no welded joints in the stranded conductor.