

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	4.1	93	1.83	5600	-
16	7	1.71	5.1	145	1.15	3450	X
25	7	2.13	6.4	225	0.727	2200	X
35 ²⁾	7	2.52	7.6	315	0.524	2000	X
50 ¹⁾	7	3.02	9.1	453	0.387	1100	X
50 ¹⁾	19	1.82	9.1	449	0.387	1100	X
70 ¹⁾	7	3.57	10.7	633	0.268	800	-
70	19	2.17	10.9	638	0.268	800	X
95	19	2.52	12.6	861	0.193	600	X
95	37	1.81	12.7	867	0.193	600	X
120 ¹⁾	19	2.84	14.2	1090	0.153	460	X
120	37	2.03	14.2	1090	0.153	460	X
150	37	2.27	15.9	1360	0.124	370	X
185	37	2.52	17.6	1680	0.0991	300	X
240 ¹⁾	37	2.89	20.2	2210	0.0754	230	X
300 ¹⁾	37	3.22	22.5	2740	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 wire diameter: ±1 % according to EN 13602

3 Form of delivery

Our standard lengths in stock (see table 1) are delivered on wooden drum K9 and has a net weight of appr. 500 kgs, except 35/7, which is delivered on wooden drum 3 and has a weight of appr. 630 kgs. 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.

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