

# EK SPEC NO 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. <sup>1)</sup>=Not according to IEC 60228:Class 2.

Area (mm <sup>2</sup> )	Wire (nominal)		Conductor (calculated values)		Max resistance according to IEC 60228 (Ω/km)	Standard length in stock (m)
	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
25	7	2.13	6.6	225	0.727	2200
35	7	2.52	7.9	315	0.524	1640
50 <sup>1)</sup>	7	3.02	9.1	453	0.387	1100
50	19	1.85	9.1	463	0.387	1100
70 <sup>1)</sup>	7	3.57	11.0	633	0.268	800
70	19	2.17	11.0	638	0.268	800
95	19	2.52	12.9	861	0.193	600
95	37	1.81	12.9	866	0.193	600
120 <sup>1)</sup>	19	2.84	14.5	1090	0.153	460
120	37	2.03	14.5	1090	0.153	460
150	37	2.27	16.2	1360	0.124	370
185	37	2.52	18.0	1680	0.0991	300
240 <sup>1)</sup>	37	2.89	20.6	2180	0.0754	230
300 <sup>1)</sup>	37	3.22	23.1	2710	0.0601	183

## 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 wooden drum 3 and has a Approx 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/cm<sup>3</sup>  
 Elongation: A<sub>200mm</sub> 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.

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