



EK SPEC 180

Cu-conductor, Stranded, Hard

1 Dimensions

Table 1 Structure and measurements.

Area (mm ²)	Wire (nominal)		Conductor (calculated values)				Standard length (m)
	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	93	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
35	7	2.52	7.6	0.512	315	13.9	1640
50	7	3.02	9.1	0.356	453	20.1	1100
50 ¹⁾	19	1.85	9.2	0.351	464	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
95	19	2.52	12.6	0.189	861	37.9	600
95 ¹⁾	37	1.81	12.7	0.189	867	38.1	600
120 ¹⁾	19	2.84	14.2	0.149	1090	48.2	460
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	20.2	0.0752	2210	65.8	230
300 ¹⁾	37	3.22	22.5	0.0606	2740	119.6	183

¹⁾ = Not according to SEN 240103.

2 Technical requirements

Lay ratio: 11-14. Innermost layer right-handed.

3 Form of delivery

Standard lengths on wooden drum K9 (see table 1). The drum K9 has a capacity of approximately 500 kg. 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. We can also supply overhead conductors according to DIN 48201:T1.