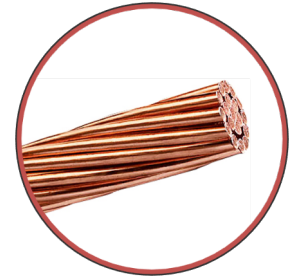


# EK SPEC 186

## CuMg-conductor, Stranded



### 1 Dimensions

Table 1 Structure and dimensions.

Dimension Area (mm <sup>2</sup> )	Wire (nominal)		Conductor (calculated value)		
	Number of wires	Diameter (mm)	Diameter (mm)	Max. resistance (Ω/km)	Weight (kg/km)
10	7	1.35	4.1	2.9845	90
25	7	2.10	6.3	1.2002	218
35	7	2.50	7.5	0.8403	310
50	7	3.00	9.0	0.5796	446
50 <sup>1)</sup>	7	2.97	8.91	0.5796	437
50	19	1.80	9.0	0.6068	438
70	19	2.10	10.5	0.4422	596
70 <sup>1)</sup>	19	2,08	10.4	0.4422	585
95	19	2.50	12.5	0.3096	845
120	19	2.80	14.0	0.2457	1060
150	37	2.25	15.8	0.1972	1338

<sup>1)</sup> = Lean wire

### 2 Tolerance of Dimensions

Weight tolerance: ± 3 % on values from table 1.  
<sup>1)</sup> ± 2 % on values from table 1.

Table 2 Lay ratio (according to DIN 48201 Teil 2).

Number of wires in the cable	6-wire lays		12-wire lays		18-wire lays	
	min	max	min	max	min	max
7	10	14	-	-	-	-
19	10	16	10	14	-	-
37	10	17	10	16	10	14

### 3 Form of delivery

Standard packaging: E10 max 1200kg  
 E12 max 2000kg  
 Other forms of delivery and types of package can be made by agreement.  
 The material is protected with black plastic film.

### 4 Requirements

CuMg  
 Density: 8.9 g/cm<sup>3</sup>  
 Resistance: See table 1  
 Tensile strength: min 589 N/mm<sup>2</sup>

### 5 Miscellaneous

Otherwise according to DIN 48201 Teil 2.  
 Strands according to EK SPEC 126.  
 There are no welded joints in the stranded conductor.

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 Documentno: 2005

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 Issue: 4

Approved: 2020-11-19