

## Conductor resistances acc. to IEC 60228 / HD 383

cross section mm <sup>2</sup>	bare copper conductor (Ω / km)		tinned copper conductor (Ω / km)	
	class 1 + 2	class 5 + 6	class 1 + 2	class 5 + 6
0,05		380,00		392,00
0,08		237,00		244,00
0,14		134,00		138,00
0,22		96,00		99,00
0,25		76,00		79,00
0,34		53,00		56,00
0,50	36,00	39,00	36,70	40,10
0,75	24,50	26,00	24,80	26,70
1,00	18,10	19,50	18,20	20,00
1,50	12,10	13,30	12,20	13,70
2,50	7,41	7,98	7,56	8,21
4,00	4,61	4,95	4,70	5,09
6,00	3,08	3,30	3,11	3,39
10,00	1,83	1,91	1,84	1,95
16,00	1,15	1,21	1,16	1,24
25,00	0,727*	0,780	0,734	0,795
35,00	0,524*	0,554	0,529	0,565
50,00	0,387*	0,386	0,391	0,393
70,00	0,268*	0,272	0,270	0,277
95,00	0,193*	0,206	0,195	0,210
120,00	0,153*	0,161	0,154	0,164
150,00	0,124*	0,129	0,126	0,132
185,00	0,0991	0,106	0,100	0,108
240,00	0,0754	0,0801	0,0762	0,0817
300,00	0,0601	0,0641	0,0607	0,0654
400,00	0,0470	0,0486	0,0475	0,0495
500,00	0,0366	0,0384	0,0369	0,0391
630,00	0,0283	0,0287	0,0286	0,0292

### Classes

class 1	solid wire for single- and multi-core cables
class 2	multi-wire strands for single- and multi-core cables
class 5	fine-wire strands for single- and multi-core cables
class 6	super-fine-wire strands for single- and multi-core cables

### Remark

\* for mineral (or mineral fibre) insulated cables (only for class 1).  
 The values according to IEC 60228 are listed according to the cross section and the class of conductor make-up. The diameter of the individual wires of each conductor, beginning with 0.50 mm<sup>2</sup>, shall not exceed the maximum values (see IEC 60228), which are required by the maximum conductor resistance at 20° C.