

**Class 2 stranded conductors for single core and multi core cables**

1	2	3	4	5	6	7	8	9	10	
Nominal cross-sectional area mm <sup>2</sup>	Minimum number of wires in the conductor						Maximum resistance of conductor at 20°C			
	Circular		Circular compacted		Shaped		Annealed copper conductor		Aluminium or aluminium alloy conductor <sup>c</sup> Ω/km	
	Cu	Al	Cu	Al	Cu	Al	Plain wires Ω/km	Metal-coated wires Ω/km		
0,5	7	-	-	-	-	-	36,0	36,7	-	
0,75	7	-	-	-	-	-	24,5	24,8	-	
1,0	7	-	-	-	-	-	18,1	18,2	-	
1,5	7	-	6	-	-	-	12,1	12,2	-	
2,5	7	-	6	-	-	-	7,41	7,56	-	
4	7	-	6	-	-	-	4,61	4,70	-	
6	7	-	6	-	-	-	3,08	3,11	-	
10	7	7	6	6	-	-	1,83	1,84	3,08	
16	7	7	6	6	-	-	1,15	1,16	1,91	
25	7	7	6	6	6	6	0,727	0,734	1,20	
35	7	7	6	6	6	6	0,524	0,529	0,868	
50	19	19	6	6	6	6	0,387	0,391	0,641	
70	19	19	12	12	12	12	0,268	0,270	0,443	
95	19	19	15	15	15	15	0,193	0,195	0,320	
120	37	37	18	15	18	15	0,153	0,154	0,253	
150	37	37	18	15	18	15	0,124	0,126	0,206	
185	37	37	30	30	30	30	0,0991	0,100	0,164	
240	37	37	34	30	34	30	0,0754	0,0762	0,125	
300	61	61	34	30	34	30	0,0601	0,0607	0,100	
400	61	61	53	53	53	53	0,0470	0,0475	0,0778	
500	61	61	53	53	53	53	0,0366	0,0369	0,0605	
630	91	91	53	53	53	53	0,0283	0,0286	0,0469	
800	91	91	53	53	-	-	0,0221	0,0224	0,0367	
1 000	91	91	53	53	-	-	0,0176	0,0177	0,0291	
1 200				b			0,0151	0,0151	0,0247	
1 400 <sup>a</sup>				b			0,0129	0,0129	0,0212	
1 600				b			0,0113	0,0113	0,0186	
1 800 <sup>a</sup>				b			0,0101	0,0101	0,0165	
2 000				b			0,0090	0,0090	0,0149	
2 500				b			0,0072	0,0072	0,0127	

<sup>a</sup> These sizes are non-preferred. Other non-preferred sizes are recognized for some specialized applications but are not within the scope of this standard.

<sup>b</sup> The minimum number of wires for these sizes is not specified. These sizes may be constructed from 4, 5 or 6 equal segments (Milliken).

<sup>c</sup> For stranded aluminium alloy conductors having the same nominal cross-sectional area as an aluminium conductor the resistance value should be agreed between the manufacturer and the purchaser.