

CONDUCTOR STRANDING CHART

Conductors in the past were normally measured by the number and diameter of individual strands, cross sectional area or both. The new system for measuring flexible conductors (column 3 & 4 in table below) now centers on the core resistance and the maximum strand diameter. Cables now can have a smaller diameter and fewer strands than in the table below but will still conform to the standards BS EN 60228, VDE 0295 and IEC 228 by having the correct conductor resistance.

Examples of metric conductor make up

Cross Section mm ²	Multi wire strands	Multi wire strands	Fine wire strands	Super Fine Wire Strands			
0.14				18 x 0.1	18 x 0.1	36 x 0.07	72 x 0.05
0.25			14 x 0.15	32 x 0.1	32 x 0.1	65 x 0.07	128 x 0.05
0.34		7 x 0.25	19 x 0.15	42 x 0.1	42 x 0.1	88 x 0.07	174 x 0.05
0.38		7 x 0.27	12 x 0.2	21 x 0.16	48 x 0.1	100 x 0.07	194 x 0.05
0.5	7 x 0.30	7 x 0.30	16 x 0.2	28 x 0.16	64 x 0.1	131 x 0.07	265 x 0.05
0.75	7 x 0.37	7 x 0.37	24 x 0.2	42 x 0.16	96 x 0.1	195 x 0.07	384 x 0.05
1.0	7 x 0.44	7 x 0.43	32 x 0.2	56 x 0.16	128 x 0.1	260 x 0.07	512 x 0.05
1.5	7 x 0.53	7 x 0.52	30 x 0.25	84 x 0.16	192 x 0.1	392 x 0.07	768 x 0.07
2.5	7 x 0.67	19 x 0.41	50 x 0.25	140 x 0.16	320 x 0.1	651 x 0.07	1280 x 0.05
4	7 x 0.85	19 x 0.52	56 x 0.30	224 x 0.16	512 x 0.1	1040 x 0.07	
6	7 x 1.04	19 x 0.64	84 x 0.30	192 x 0.21	768 x 0.1	1560 x 0.07	
10	7 x 1.35	49 x 0.51	80 x 0.40	320 x 0.21	1280 x 0.1	2600 x 0.07	
16	7 x 1.70	49 x 0.65	128 x 0.40	512 x 0.21	2084 x 0.1		
25	7 x 2.13	84 x 0.62	200 x 0.40	800 x 0.21	3200 x 0.1		
35	7 x 2.52	133 x 0.58	280 x 0.40	1120 x 0.21			
50	19 x 1.83	133 x 0.69	400 x 0.40	705 x 0.31			
70	19 x 2.14	189 x 0.69	356 x 0.50	990 x 0.31			
95	19 x 2.52	259 x 0.69	485 x 0.5	1340 x 0.31			
120	37 x 2.03	336 x 0.67	614 x 0.50	1690 x 0.31			
150	37 x 2.27	392 x 0.69	765 x 0.50	2123 x 0.31			
185	37 x 2.52	494 x 0.69	994 x 0.5	1470 x 0.31			
240	61 x 2.24	627 x 0.70	1125 x 0.5	1905 x 0.31			
300	61 x 2.50	790 x 0.70	1530 x 0.5	2385 x 0.31			
400	61 x 2.89		2035 x 0.5				
500	61 x 3.23		1768 x 0.6				
630	91 x 2.97		2286 x 0.6				