

Strand make-up according to DIN VDE 0295, IEC 60228 and HD 383

cross section mm ²	stranded wires	multistranded wires	fine wires	extra-fine wires			
	class 2 DIN VDE 0295		class 5 DIN VDE 0295	class 6 DIN VDE 0295			
	column 1	column 2	column 3	column 4	column 5	column 6	column 7
	Number ³⁾ single of wires x wire∅ mm	Number single of wires x wire∅ mm	Number ¹⁾ single ²⁾ of wires x wire∅ mm	Number ¹⁾ single ²⁾ of wires x wire∅ mm	Number ¹⁾ single of wires x wire∅ mm	Number ¹⁾ single of wires x wire∅ mm	Number ¹⁾ single of wires x wire∅ mm
0,05						~14x0,07	~26x0,05
0,08							~40x0,05
0,09						~24x0,07*	
0,14			~18x0,1	~18x0,1	~18x0,1	~36x0,07	~72x0,05
0,25			~14x0,15	~32x0,1	~32x0,1	~65x0,07	~128x0,05
0,34		7x0,25	~19x0,15	~42x0,1	~42x0,1	~88x0,07	~174x0,05
0,38		7x0,27	~12x0,2	~21x0,15	~48x0,1	~100x0,07	~194x0,05
0,5	7x0,30	7x0,30	~16x0,2	~28x0,15	~64x0,1	~131x0,07	~256x0,05
0,75	7x0,37	7x0,37	~24x0,2	~42x0,15	~96x0,1	~195x0,07	~384x0,05
1,0	7x0,43	7x0,43	~32x0,2	~56x0,15	~128x0,1	~260x0,07	~512x0,05
1,5	7x0,52	7x0,52	~30x0,25	~84x0,15	~192x0,1	~392x0,07	~768x0,05
2,5	7x0,67	19x0,41	~50x0,25	~140x0,15	~320x0,1	~651x0,07	~1280x0,05
4	7x0,85	19x0,52	~56x0,3	~224x0,15	~512x0,1	~1040x0,07	
6	7x1,05	19x0,64	~84x0,3	~192x0,2	~768x0,1	~1560x0,07	
10	7x1,35	49x0,51	~80x0,4	~320x0,2	~1280x0,1	~2600x0,07	
16	7x1,70	49x0,65	~128x0,4	~512x0,2	~2048x0,1		
25	7x2,13	84x0,62	~200x0,4	~800x0,2	~3200x0,1		
35	7x2,52	133x0,58	~280x0,4	~1120x0,2			
50	19x1,83	133x0,69	~400x0,4	~705x0,3			
70	19x2,17	189x0,69	~356x0,5	~990x0,3			
95	19x2,52	259x0,69	~485x0,5	~1340x0,3			
120	37x2,03	336x0,67	~614x0,5	~1690x0,3			
150	37x2,27	392x0,69	~765x0,5	~2123x0,3			
185	37x2,52	494x0,69	~944x0,5	~1470x0,4			
240	61x2,24	627x0,70	~1225x0,5	~1905x0,4			
300	61x2,50	790x0,70	~1530x0,5	~2385x0,4			
400	61x2,89		~2035x0,5				
500	61x3,23		~1768x0,6				
630	91x2,97		~2228x0,6				

¹⁾ The number of individual wires are without obligation.

²⁾ The diameters of the single wires for each conductor are not allowed to exceed the values stated to DIN VDE 0295. The single wires of a stranded conductor must have all the same nominal diameters.

³⁾ Minimum-number of single wires of stranded conductor. The single wires of a stranded conductor must have all the same nominal diameters.

²⁾ **Note:** permissible maximal diameter of single wires:

nominal value mm	maximal value mm
0,2	0,21
0,25	0,26
0,3	0,31
0,4	0,41
0,5	0,51
0,6	0,61

Conversion AWG to (mm²)

AWG	mm ²	AWG	mm ²	AWG	mm ²	kcmil	mm ²
30	0,05	18	0,75	6	16	300 kcmil	150
28	0,08	17	1,00	4	25	350 kcmil	185
26	0,14	16	1,50	2	35	500 kcmil	240
24	0,25	14	2,50	1	50	600 kcmil	300
22	0,34	12	4	2/0	70	750 kcmil	400
21	0,38	10	6	3/0	95	1000 kcmil	500
20	0,50	8	10	4/0	120		

This cross reference list shows equivalent nominal values. Actual cross sections may vary. The AWG values are approximate, if the cables are made to European Standards (mm²) and vice versa. In critical applications, where the current reaches upper limits. The deviating operation conditions for installation and laying according to standards are to be taken into consideration.

