

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 Ø mm	Number single of wires x wire Ø mm	Number ¹⁾ single ²⁾ of wires x wire Ø mm	Number ¹⁾ single ²⁾ of wires x wire Ø mm	Number ¹⁾ single of wires x wire Ø mm	Number ¹⁾ single of wires x wire Ø mm	Number ¹⁾ single of wires x wire Ø 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⁾ **Note:** permissible maximal diameter of single wires:

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.

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