

RELATIONSHIP BETWEEN THE ASSIGNED CONNECTION CAPACITY AND THE DIAMETER OF THE CONDUCTORS

RATED CROSS-SECTION	THEORETICAL DIAMETER OF THE LARGEST CONDUCTOR							CONNECTABLE CONDUCTORS	
	METRIC			FLEXIBLE	AWG / KCMIL			RIGID	FLEXIBLE
	RIGID		mm		RIGID		mm		
	SOLID	STRANDED		b)	b) Class B	c) Classes I, K, M.			
mm ²	mm	mm		Calibre	SOLID	STRANDED		STRANDED	
0.2	0.51	0.53	0.61	24	0.54	0.61	0.64	To be specified in the relevant product standard	
0.34	0.63	0.66	0.8	22	0.68	0.71	0.80		
0.5	0.9	1.1	1.1	20	0.85	0.97	1.02		
0.75	1.0	1.2	1.3	18	1.07	1.23	1.28		
1.0	1.2	1.4	1.5	—	—	—	—		
1.5	1.5	1.7	1.8	16	1.35	1.55	1.60		
2.5	1.9	2.2	2.3 ^{a)}	14	1.71	1.95	2.08		
4.0	2.4	2.7	2.9 ^{a)}	12	2.15	2.45	2.70		
6.0	2.9	3.3	3.9 ^{a)}	10	2.72	3.09	3.36		
10.0	3.7	4.2	5.1	8	3.43	3.89	4.32		
16.0	4.6	5.3	6.3	6	4.32	4.91	5.73		
25.0	—	6.6	7.8	4	5.45	6.18	7.26		
35	—	7.9	9.2	2	6.87	7.78	9.02		

NOTE – Diameters of the largest rigid and flexible conductors are based on Table 1 of IEC 60228A and IEC 60344, for AWG conductors, on ASTM B172-71 [4], IECA S-19-81 [5], IECA Publication S-66-524 [6] and IECA Publication S-66-516 [7].

a) Dimensions for class 5 flexible conductors only, according to IEC 60228A.

b) Nominal cross section + 5%.

c) Largest diameter for conductors of classes I, K, M + 5%.

In practical use the conductor cross sections are approx. 5% below the values stated in the table!