

Technical Data

This table provide multiplication factors for wire bundles of 1 to 61 wires.

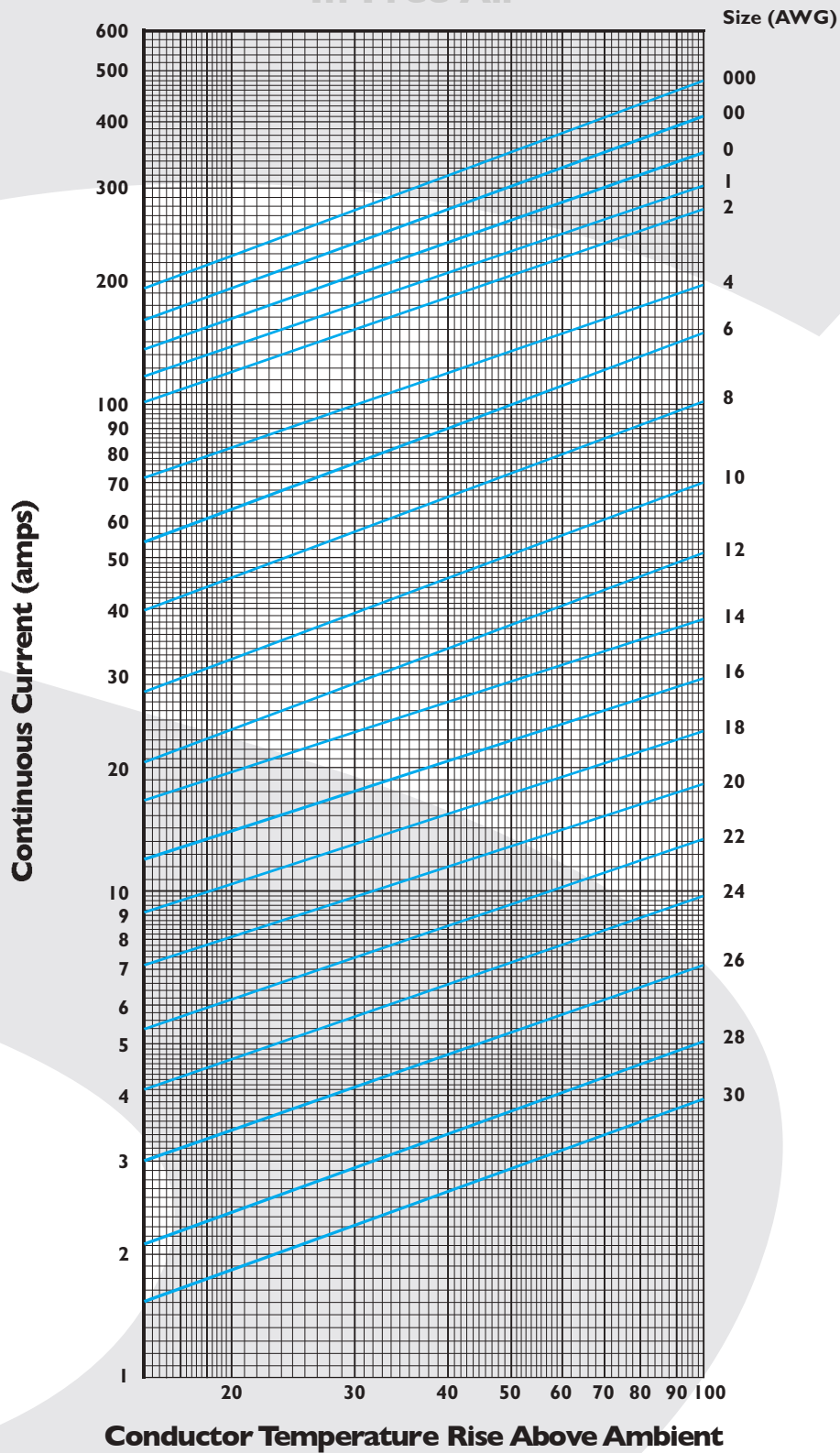
To determine the approximate diameter of a wire bundle when the wires are all the same size, find the factor for the number of wires in the bundle and multiply the wire diameter by that factor.

Multiplication factors for Wire Bundles with Equal Size Wires

Number of Wires	Multiplication Factor	Number of Wires	Multiplication Factor
1	1.00	32	6.70
2	2.00	33	6.70
3	2.16	34	7.00
4	2.41	35	7.00
5	2.70	36	7.00
6	3.00	37	7.00
7	3.00	38	7.31
8	3.60	39	7.31
9	4.00	40	7.31
10	4.00	41	7.61
11	4.00	42	7.61
12	4.00	43	7.61
13	4.41	44	7.61
14	4.41	45	8.00
15	4.70	46	8.00
16	4.70	47	8.00
17	5.00	48	8.00
18	5.00	49	8.41
19	5.00	50	8.41
20	5.31	51	8.41
21	5.31	52	8.41
22	5.61	53	8.70
23	5.61	54	8.70
24	5.61	55	8.70
25	6.00	56	8.70
26	6.00	57	9.00
27	6.00	58	9.00
28	6.41	59	9.00
29	6.41	60	9.00
30	6.41	61	9.00
31	6.70		

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Typical Conductor Temperature Rise of Single Insulated Wire In Free Air



Number of cores	2	3	4	7	9	12	15	18	21	24	27	30	37
Derating factor	0.825	0.73	0.66	0.54	0.49	0.43	0.39	0.36	0.33	0.31	0.29	0.28	0.26