

CONDUIT CONDUCTOR FILL

Based on Wire Fill Data on page 58 and Table 5, Chapter 9 of National Electric Code 2011

RHW*

Trade Size	IPS sizes											
	Allowable Conduit in ²	Max. 1 Conductor Size	in ² of 1 Conductor	Allowable Conduit in ²	Max. 2 Conductor Size	in ² of 2 Conductors	Allowable Conduit in ²	Max. 3 Conductor Size	in ² of 3 Conductors	Allowable Conduit in ²	Max. 4 Conductor Size	in ² of 4 Conductors
¾ (19)	0.345	3/0	0.3117	0.202	4	0.1946	0.260	6	0.2178	0.260	8	0.2223
1 (25)	0.575	300	0.5281	0.336	2	0.2666	0.434	2	0.3999	0.434	4	0.3893
1¼ (32)	0.962	500	0.7901	0.563	2/0	0.5248	0.726	1/0	0.6669	0.726	2	0.5333
1½ (38)	1.289	800	1.2272	0.754	4/0	0.7435	0.973	3/0	0.9352	0.973	1/0	0.8891
2 (51)	2.079	1250	1.8602	1.216	350	1.1917	1.569	250	1.3789	1.569	4/0	1.4871
2½ (64)	3.125	2000	2.7818	1.828	500	1.5802	2.359	400	1.9856	2.359	300	2.1124
3 (76)	4.699			2.749	900	2.7121	3.547	750	3.4955	3.547	500	3.1605
4 (102)	7.768			4.544	1500	4.3389	5.863	1250	5.5807	5.863	900	5.4243
5 (127)	12.048			7.047	2000	5.5636	9.093	2000	8.3455	9.093	1750	9.9091
6 (152)	17.237			10.082			13.009			13.009	2000	11.1273

RHW*

Trade Size	ID sizes											
	Allowable Conduit in ²	Max. 1 Conductor Size	in ² of 1 Conductor	Allowable Conduit in ²	Max. 2 Conductor Size	in ² of 2 Conductors	Allowable Conduit in ²	Max. 3 Conductor Size	in ² of 3 Conductors	Allowable Conduit in ²	Max. 4 Conductor Size	in ² of 4 Conductors
2 (51)	1.665	1000	1.4784	0.974	250	0.9193	1.257	4/0	1.1153	1.257	3/0	1.2469
2½ (64)	2.602	1750	2.4773	1.522	400	1.3237	1.963	350	1.7875	1.963	250	1.8385
3 (76)	3.746	2000	2.7818	2.191	600	1.9459	2.827	500	2.3704	2.827	400	2.6475
3½ (89)	5.099			2.983	900	2.7121	3.848	800	3.6816	3.848	500	3.1605
4 (102)	6.660			3.896	1250	3.7205	5.027	1000	4.4353	5.027	800	4.9087
5 (127)	10.407			6.087	2000	5.5636	7.854	1750	7.4319	7.854	1250	7.4409
6 (152)	14.985			8.765			11.310	2000	8.3455	11.310	2000	11.1273

THHN

Trade Size	IPS sizes											
	Allowable Conduit in ²	Max. 1 Conductor Size	in ² of 1 Conductor	Allowable Conduit in ²	Max. 2 Conductor Size	in ² of 2 Conductors	Allowable Conduit in ²	Max. 3 Conductor Size	in ² of 3 Conductors	Allowable Conduit in ²	Max. 4 Conductor Size	in ² of 4 Conductors
¾ (19)	0.345	4/0	0.3237	0.202	3	0.1946	0.260	4	0.2472	0.260	6	0.2028
1 (25)	0.575	350	0.5242	0.336	1	0.3124	0.434	2	0.3474	0.434	3	0.3892
1¼ (32)	0.962	600	0.8676	0.563	3/0	0.5358	0.726	2/0	0.6669	0.726	1	0.6248
1½ (38)	1.289	900	1.2311	0.754	4/0	0.6474	0.973	4/0	0.9711	0.973	2/0	0.8892
2 (51)	2.079	1000	1.3478	1.216	400	1.1726	1.569	300	1.3824	1.569	4/0	1.2948
2½ (64)	3.125			1.828	600	1.7352	2.359	500	2.1219	2.359	400	2.3452
3 (76)	4.699			2.749	1000	2.6956	3.547	800	3.3255	3.547	600	3.4704
4 (102)	7.768			4.544			5.863	1000	4.0434	5.863	1000	5.3912
5 (127)	12.048			7.047			9.093			9.093		
6 (152)	17.237			10.082			13.009			13.009		

THHN

Trade Size	ID sizes											
	Allowable Conduit in ²	Max. 1 Conductor Size	in ² of 1 Conductor	Allowable Conduit in ²	Max. 2 Conductor Size	in ² of 2 Conductors	Allowable Conduit in ²	Max. 3 Conductor Size	in ² of 3 Conductors	Allowable Conduit in ²	Max. 4 Conductor Size	in ² of 4 Conductors
2 (51)	1.665	1000	0.3237	0.974	300	0.9216	1.257	250	1.1910	1.257	3/0	1.0716
2½ (64)	2.602			1.522	500	1.4146	1.963	400	1.7589	1.963	300	1.8432
3 (76)	3.746			2.191	750	2.0992	2.827	600	2.6028	2.827	400	2.3452
3½ (89)	5.099			2.983	1000	2.6956	3.848	900	3.6933	3.848	600	3.4704
4 (102)	6.660			3.896			5.027	1000	4.0434	5.027	900	4.9244
5 (127)	10.407			6.087			7.854			7.854	1000	5.3912
6 (152)	14.985			8.765			11.310			11.310		

