

# Conduit Fill Tables

Tables that show how many wires can be installed in various types of conduits.

Based on the 2011 edition of the National Electrical Code published by the  
National Fire Protection Association.

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Maximum number of THHN conductors in Electrical Metallic Tubing EMT

Wire Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
	EMT	EMT	EMT	EMT	EMT	EMT	EMT	EMT	EMT	EMT
14	12	22	35	61	84	138	241	364	476	608
12	9	16	26	45	61	101	176	266	347	443
10	5	10	16	28	38	63	111	167	219	279
8	3	6	9	16	22	36	64	96	126	161
6	2	4	7	12	16	26	46	69	91	116
4	1	2	4	7	10	16	28	43	56	71
3	1	1	3	6	8	13	24	36	47	60
2	1	1	3	5	7	11	20	30	40	51
1	1	1	1	4	5	8	15	22	29	37
0	1	1	1	3	4	7	12	19	25	32
2/0		1	1	2	3	6	10	16	20	26
3/0		1	1	1	3	5	8	13	17	22
4/0		1	1	1	2	4	7	11	14	18
250			1	1	1	3	6	9	11	15
300			1	1	1	3	5	7	10	13
350			1	1	1	2	4	6	9	11
400				1	1	1	4	6	8	10
500				1	1	1	3	5	6	8

Maximum number of THHN conductors in Intermediate Metal Conduit IMC

Wire Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
	IMC	IMC	IMC	IMC	IMC	IMC	IMC	IMC	IMC	IMC
14	14	24	39	68	91	149	211	326	436	562
12	10	17	29	49	67	109	154	238	318	410
10	6	11	18	31	42	68	97	150	200	258
8	3	6	10	18	24	39	56	86	115	149
6	2	4	7	13	17	28	40	62	83	107
4	1	3	4	8	10	17	25	38	51	66
3	1	2	4	6	9	15	21	32	43	56
2	1	1	3	5	7	12	17	27	36	47
1	1	1	2	4	5	9	13	20	27	35
0	1	1	1	3	4	8	11	17	23	29
2/0	1	1	1	3	4	6	9	14	19	24
3/0		1	1	2	3	5	7	12	16	20
4/0		1	1	1	2	4	6	9	13	17
250			1	1	1	3	5	8	10	13
300			1	1	1	3	4	7	9	12
350			1	1	1	2	4	6	8	10
400			1	1	1	2	3	5	7	9
500				1	1	1	3	4	6	7

Maximum number of THHN conductors in Rigid Metal Conduit RMC

Wire Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
	RMC	RMC	RMC	RMC	RMC	RMC	RMC	RMC	RMC	RMC
14	13	22	36	63	85	140	200	309	412	531
12	9	16	26	46	62	102	146	225	301	387
10	6	10	17	29	39	64	92	142	189	244
8	3	6	9	16	22	37	53	82	109	140
6	2	4	7	12	16	27	38	59	79	101
4	1	2	4	7	10	16	23	36	48	62
3	1	1	3	6	8	14	20	31	41	53
2	1	1	3	5	7	11	17	26	34	44
1	1	1	1	4	5	8	12	19	25	33
0	1	1	1	3	4	7	10	16	21	27
2/0		1	1	2	3	6	8	13	18	23
3/0		1	1	1	3	5	7	11	15	19
4/0		1	1	1	2	4	6	9	12	16
250			1	1	1	3	5	7	10	13
300			1	1	1	3	4	6	8	11
350			1	1	1	2	3	5	7	10
400			1	1	1	2	3	5	7	8
500				1	1	1	2	4	5	7

Maximum number of THHN conductors in Flexible Metal Conduit FMC

Wire Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
	FMC	FMC	FMC	FMC	FMC	FMC	FMC	FMC	FMC	FMC
14	13	22	33	52	76	134	202	291	396	518
12	9	16	24	38	56	98	147	212	289	378
10	6	10	15	24	35	62	93	134	182	238
8	3	6	9	14	20	35	53	77	105	137
6	2	4	6	10	14	25	38	55	76	99
4	1	2	4	6	9	16	24	34	46	61
3	1	1	3	5	7	13	20	29	39	51
2	1	1	3	4	6	11	17	24	33	43
1	1	1	1	3	4	8	12	18	24	32
0	1	1	1	2	4	7	10	15	20	27
2/0		1	1	1	3	6	9	12	17	22
3/0		1	1	1	2	5	7	10	14	18
4/0		1	1	1	1	4	6	8	12	15
250			1	1	1	3	5	7	9	12
300			1	1	1	3	4	6	8	11
350			1	1	1	2	3	5	7	9
400				1	1	1	3	5	6	8
500				1	1	1	2	4	5	7

Maximum number of THHN conductors in Liquidtight Flexible Metal Conduit LFMC

Wire Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
	LFMC	LFMC	LFMC	LFMC	LFMC	LFMC	LFMC	LFMC	LFMC	LFMC
14	13	22	36	63	81	133	201	308	401	523
12	9	16	26	46	59	97	146	225	292	381
10	6	10	16	29	37	61	92	141	184	240
8	3	6	9	16	21	35	53	81	106	138
6	2	4	7	12	15	25	38	59	76	100
4	1	2	4	7	9	15	23	36	47	61
3	1	1	3	6	8	13	20	30	40	52
2	1	1	3	5	7	11	17	26	33	44
1	1	1	1	4	5	8	12	19	25	32
0	1	1	1	3	4	7	10	16	21	27
2/0		1	1	2	3	6	8	13	17	23
3/0		1	1	1	3	5	7	11	14	19
4/0		1	1	1	2	4	6	9	12	15
250			1	1	1	3	5	7	10	12
300			1	1	1	3	4	6	8	11
350			1	1	1	2	3	5	7	9
400				1	1	1	3	5	6	8
500				1	1	1	2	4	5	7

Maximum number of THHN conductors in Liquidtight Flexible Nonmetallic Conduit LFNC

Wire Size	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	LFNC	LFNC	LFNC	LFNC	LFNC	LFNC	LFNC
14	8	13	22	36	63	81	133
12	5	9	16	26	46	59	97
10	3	6	10	16	29	37	61
8	1	3	6	9	16	21	35
6	1	2	4	7	12	15	25
4	1	1	2	4	7	9	15
3	1	1	1	3	6	8	13
2	1	1	1	3	5	7	11
1		1	1	1	4	5	8
0		1	1	1	3	4	7
2/0			1	1	2	3	6
3/0			1	1	1	3	5
4/0			1	1	1	2	4
250				1	1	1	3
300				1	1	1	3
350				1	1	1	2
400					1	1	1
500					1	1	1

Maximum number of THHN conductors in Rigid Schedule 40 PVC

Wire Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
14	11	21	34	60	82	135	193	299	401	517
12	8	15	25	43	59	99	141	218	293	377
10	5	9	15	27	37	62	89	137	184	238
8	3	5	9	16	21	36	51	79	106	137
6	1	4	6	11	15	26	37	57	77	99
4	1	2	4	7	9	16	22	35	47	61
3	1	1	3	6	8	13	19	30	40	51
2	1	1	3	5	7	11	16	25	33	43
1	1	1	1	3	5	8	12	18	25	32
0	1	1	1	3	4	7	10	15	21	27
2/0		1	1	2	3	6	8	13	17	22
3/0		1	1	1	3	5	7	11	14	18
4/0		1	1	1	2	4	6	9	12	15
250			1	1	1	3	4	7	10	12
300			1	1	1	3	4	6	8	11
350			1	1	1	2	3	5	7	9
400				1	1	1	3	5	6	8
500				1	1	1	2	4	5	7

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