

Conduit Fill Tables

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

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The following charts have been compiled from the Tables in Annex C of the 2008 edition of the National Electrical Code. The most common wire insulation type (THHN) , wire sizes, and raceway sizes were used by Affordable Electric Inc. to compile these charts.

Maximum Number of THHN Conductors in Electrical Metallic Tubing (EMT)

Wire Size	1/2 EMT	3/4 EMT	1 EMT	1 1/4 EMT	1 1/2 EMT	2 EMT
14	12	22	35	61	84	138
12	9	16	26	45	61	101
10	5	10	16	28	38	63
8	3	6	9	16	22	36
6	2	4	7	12	16	26
4	1	2	4	7	10	16
3	1	1	3	6	8	13
2	1	1	3	5	7	11
1	1	1	1	4	5	8
1/0	1	1	1	3	4	7
2/0	0	1	1	2	3	6
3/0	0	1	1	1	3	5
4/0	0	1	1	1	2	4

Maximum Number of THHN Conductors in Intermediate Metal Conduit (IMC)

Wire Size	1/2 IMC	3/4 IMC	1 IMC	1 1/4 IMC	1 1/2 IMC	2 IMC
14	14	24	39	68	91	149
12	10	17	29	49	67	109
10	6	11	18	31	42	68
8	3	6	10	18	24	39
6	2	4	7	13	17	28
4	1	3	4	8	10	17
3	1	2	4	6	9	15
2	1	1	3	5	7	12
1	1	1	2	4	5	9
1/0	1	1	1	3	4	8
2/0	1	1	1	3	4	6
3/0	0	1	1	2	3	5
4/0	0	1	1	1	2	4

Maximum Number of THHN Conductors in Rigid Metal Conduit (RMC)

Wire Size	1/2 RMC	3/4 RMC	1 RMC	1 1/4 RMC	1 1/2 RMC	2 RMC
14	13	22	36	63	85	140
12	9	16	26	46	62	102
10	6	10	17	29	39	64
8	3	6	9	16	22	37
6	2	4	7	12	16	27
4	1	2	4	7	10	16
3	1	1	3	6	8	14
2	1	1	3	5	7	11
1	1	1	1	4	5	8
1/0	1	1	1	3	4	7
2/0	0	1	1	2	3	6
3/0	0	1	1	1	3	5
4/0	0	1	1	1	2	4

Maximum Number of THHN Conductors in Rigid PVC Conduit Schedule 40

Wire Size	1/2 PVC	3/4 PVC	1 PVC	1 1/4 PVC	1 1/2 PVC	2 PVC
14	11	21	34	60	82	135
12	8	15	25	43	59	99
10	5	9	15	27	37	62
8	3	5	9	16	21	36
6	1	4	6	11	15	26
4	1	2	4	7	9	16
3	1	1	3	6	8	13
2	1	1	3	5	7	11
1	1	1	1	3	5	8
1/0	1	1	1	3	4	7
2/0	0	1	1	2	3	6
3/0	0	1	1	1	3	5
4/0	0	1	1	1	2	4

Maximum Number of THHN Conductors in Flexible Metal Conduit (FMC)

Wire Size	1/2 FMC	3/4 FMC	1 FMC	1 1/4 FMC	1 1/2 FMC	2 FMC
14	13	22	33	52	76	134
12	9	16	24	38	56	98
10	6	10	15	24	35	62
8	3	6	9	14	20	35
6	2	4	6	10	14	25
4	1	2	4	6	9	16
3	1	1	3	5	7	13
2	1	1	3	4	6	11
1	1	1	1	3	4	8
1/0	1	1	1	2	4	7
2/0	0	1	1	1	3	6
3/0	0	1	1	1	2	5
4/0	0	1	1	1	1	4

Maximum Number of THHN Conductors in Liquidtight Flexible Nonmetallic Conduit

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

Maximum Number of THHN Conductors in Liquidtight Flexible Metal Conduit

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

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