

**Table C.1 Maximum Number of Conductors or Fixture Wires in Electrical Metallic Tubing (EMT) (Based on Table 1, Chapter 9)**

<b>CONDUCTORS</b>											
<b>Type</b>	<b>Conductor Size (AWG kcmil)</b>	<b>Metric Designator (Trade Size)</b>									
		<b>16 (½)</b>	<b>21 (¾)</b>	<b>27 (1)</b>	<b>35 (1¼)</b>	<b>41 (1½)</b>	<b>53 (2)</b>	<b>63 (2½)</b>	<b>78 (3)</b>	<b>91 (3½)</b>	<b>103 (4)</b>
RHH,	14	4	7	11	20	27	46	80	120	157	201
RHW,	12	3	6	9	17	23	38	66	100	131	167
RHW-2	10	2	5	8	13	18	30	53	81	105	135
	8	1	2	4	7	9	16	28	42	55	70
	6	1	1	3	5	8	13	22	34	44	56
	4	1	1	2	4	6	10	17	26	34	44
	3	1	1	1	4	5	9	15	23	30	38
	2	1	1	1	3	4	7	13	20	26	33
	1	0	1	1	1	3	5	9	13	17	22
	1/0	0	1	1	1	2	4	7	11	15	19
	2/0	0	1	1	1	2	4	6	10	13	17
	3/0	0	0	1	1	1	3	5	8	11	14
	4/0	0	0	1	1	1	3	5	7	9	12
	250	0	0	0	1	1	1	3	5	7	9
	300	0	0	0	1	1	1	3	5	6	8
	350	0	0	0	1	1	1	3	4	6	7
	400	0	0	0	1	1	1	2	4	5	7
	500	0	0	0	0	1	1	2	3	4	6
	600	0	0	0	0	1	1	1	3	4	5
	700	0	0	0	0	0	1	1	2	3	4
	750	0	0	0	0	0	1	1	2	3	4
	800	0	0	0	0	0	1	1	2	3	4
	900	0	0	0	0	0	1	1	1	3	3
	1000	0	0	0	0	0	1	1	1	2	3
	1250	0	0	0	0	0	0	1	1	1	2
	1500	0	0	0	0	0	0	1	1	1	1
	1750	0	0	0	0	0	0	1	1	1	1
	2000	0	0	0	0	0	0	1	1	1	1
TW	14	8	15	25	43	58	96	168	254	332	424
	12	6	11	19	33	45	74	129	195	255	326
	10	5	8	14	24	33	55	96	145	190	243
	8	2	5	8	13	18	30	53	81	105	135
RHH*, RHW*, RHW-2*, THHW, THW, THW-2	14	6	10	16	28	39	64	112	169	221	282
RHH*, RHW*, RHW-2*, THHW, THW	12	4	8	13	23	31	51	90	136	177	227
RHH*, RHW*, RHW-2*, THHW, THW	10	3	6	10	18	24	40	70	106	138	177
RHH*, RHW*, RHW-2*, THHW, THW, THW-2	8	1	4	6	10	14	24	42	63	83	106

(Continues)

Table C.1 Continued

CONDUCTORS												
Type	Conductor Size (AWG kcmil)	Metric Designator (Trade Size)										
		16 (1/2)	21 (3/4)	27 (1)	35 (1 1/4)	41 (1 1/2)	53 (2)	63 (2 1/2)	78 (3)	91 (3 1/2)	103 (4)	
RHH*, RHW*, RHW-2*, TW, THW, THHW, THW-2	6	1	3	4	8	11	18	32	48	63	81	
	4	1	1	3	6	8	13	24	36	47	60	
	3	1	1	3	5	7	12	20	31	40	52	
	2	1	1	2	4	6	10	17	26	34	44	
	1	1	1	1	3	4	7	12	18	24	31	
	1/0	0	1	1	2	3	6	10	16	20	26	
	2/0	0	1	1	1	3	5	9	13	17	22	
	3/0	0	1	1	1	2	4	7	11	15	19	
	4/0	0	0	1	1	1	3	6	9	12	16	
	250	0	0	1	1	1	3	5	7	10	13	
	300	0	0	1	1	1	2	4	6	8	11	
	350	0	0	0	1	1	1	4	6	7	10	
	400	0	0	0	1	1	1	3	5	7	9	
	500	0	0	0	1	1	1	3	4	6	7	
	600	0	0	0	1	1	1	2	3	4	6	
	700	0	0	0	0	1	1	1	3	4	5	
	750	0	0	0	0	1	1	1	3	4	5	
	800	0	0	0	0	1	1	1	3	3	5	
	900	0	0	0	0	0	1	1	2	3	4	
	1000	0	0	0	0	0	1	1	2	3	4	
	1250	0	0	0	0	0	1	1	1	2	3	
	1500	0	0	0	0	0	1	1	1	1	2	
	1750	0	0	0	0	0	0	1	1	1	2	
	2000	0	0	0	0	0	0	1	1	1	1	
	THHN, THWN, THWN-2	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	
1/0		1	1	1	3	4	7	12	19	25	32	
2/0		0	1	1	2	3	6	10	16	20	26	
3/0		0	1	1	1	3	5	8	13	17	22	
4/0		0	1	1	1	2	4	7	11	14	18	
250		0	0	1	1	1	3	6	9	11	15	
300		0	0	1	1	1	3	5	7	10	13	
350		0	0	1	1	1	2	4	6	9	11	
400		0	0	0	1	1	1	4	6	8	10	
500		0	0	0	1	1	1	3	5	6	8	
600		0	0	0	1	1	1	2	4	5	7	
700		0	0	0	1	1	1	2	3	4	6	
750		0	0	0	0	1	1	1	3	4	5	
800		0	0	0	0	1	1	1	3	4	5	
900		0	0	0	0	1	1	1	3	3	4	
1000		0	0	0	0	1	1	1	2	3	4	
FEP, FEPB, PFA, PFAH, TFE		14	12	21	34	60	81	134	234	354	462	590
		12	9	15	25	43	59	98	171	258	337	430
		10	6	11	18	31	42	70	122	185	241	309
	8	3	6	10	18	24	40	70	106	138	177	
	6	2	4	7	12	17	28	50	75	98	126	
	4	1	3	5	9	12	20	35	53	69	88	
	3	1	2	4	7	10	16	29	44	57	73	
	2	1	1	3	6	8	13	24	36	47	60	

Table C.1 Continued

CONDUCTORS											
Type	Conductor Size (AWG kcmil)	Metric Designator (Trade Size)									
		16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3½)	103 (4)
PFA, PFAH, TFE	1	1	1	2	4	6	9	16	25	33	42
PFAH, TFE PFA, PFAH, TFE, Z	1/0	1	1	1	3	5	8	14	21	27	35
	2/0	0	1	1	3	4	6	11	17	22	29
	3/0	0	1	1	2	3	5	9	14	18	24
	4/0	0	1	1	1	2	4	8	11	15	19
Z	14	14	25	41	72	98	161	282	426	556	711
	12	10	18	29	51	69	114	200	302	394	504
	10	6	11	18	31	42	70	122	185	241	309
	8	4	7	11	20	27	44	77	117	153	195
	6	3	5	8	14	19	31	54	82	107	137
	4	1	3	5	9	13	21	37	56	74	94
	3	1	2	4	7	9	15	27	41	54	69
	2	1	1	3	6	8	13	22	34	45	57
	1	1	1	2	4	6	10	18	28	36	46
XHH, XHHW, XHHW-2, ZW	14	8	15	25	43	58	96	168	254	332	424
	12	6	11	19	33	45	74	129	195	255	326
	10	5	8	14	24	33	55	96	145	190	243
	8	2	5	8	13	18	30	53	81	105	135
	6	1	3	6	10	14	22	39	60	78	100
	4	1	2	4	7	10	16	28	43	56	72
	3	1	1	3	6	8	14	24	36	48	61
	2	1	1	3	5	7	11	20	31	40	51
XHH, XHHW, XHHW-2	1	1	1	1	4	5	8	15	23	30	38
	1/0	1	1	1	3	4	7	13	19	25	32
	2/0	0	1	1	2	3	6	10	16	21	27
	3/0	0	1	1	1	3	5	9	13	17	22
	4/0	0	1	1	1	2	4	7	11	14	18
	250	0	0	1	1	1	3	6	9	12	15
	300	0	0	1	1	1	3	5	8	10	13
	350	0	0	1	1	1	2	4	7	9	11
	400	0	0	0	1	1	1	4	6	8	10
	500	0	0	0	1	1	1	3	5	6	8
	600	0	0	0	1	1	1	2	4	5	6
	700	0	0	0	0	1	1	2	3	4	6
	750	0	0	0	0	1	1	1	3	4	5
	800	0	0	0	0	1	1	1	3	4	5
	900	0	0	0	0	1	1	1	3	3	4
	1000	0	0	0	0	0	1	1	2	3	4
	1250	0	0	0	0	0	1	1	1	2	3
	1500	0	0	0	0	0	1	1	1	1	3
	1750	0	0	0	0	0	0	1	1	1	2
	2000	0	0	0	0	0	0	1	1	1	1

(Continues)

**Table C.1 Continued**

<b>FIXTURE WIRES</b>							
<b>Type</b>	<b>Conductor Size (AWG/kcmil)</b>	<b>Metric Designator (Trade Size)</b>					
		<b>16 (½)</b>	<b>21 (¾)</b>	<b>27 (1)</b>	<b>35 (1¼)</b>	<b>41 (1½)</b>	<b>53 (2)</b>
FFH-2, RFH-2, RFHH-3	18	8	14	24	41	56	92
	16	7	12	20	34	47	78
SF-2, SFF-2	18	10	18	30	52	71	116
	16	8	15	25	43	58	96
	14	7	12	20	34	47	78
SF-1, SFF-1	18	18	33	53	92	125	206
RFH-1, RFHH-2, TF, TFF, XF, XFF	18	14	24	39	68	92	152
RFHH-2, TF, TFF, XF, XFF	16	11	19	31	55	74	123
XF, XFF	14	8	15	25	43	58	96
TFN, TFFN	18	22	38	63	108	148	244
	16	17	29	48	83	113	186
PF, PFF, PGF, PGFF, PAF, PTF, PTFE, PAFF	18	21	36	59	103	140	231
	16	16	28	46	79	108	179
	14	12	21	34	60	81	134
ZF, ZFF, ZHF, HF, HFF	18	27	47	77	133	181	298
	16	20	35	56	98	133	220
	14	14	25	41	72	98	161
KF-2, KFF-2	18	39	69	111	193	262	433
	16	27	48	78	136	185	305
	14	19	33	54	93	127	209
	12	13	23	37	64	87	144
	10	8	15	25	43	58	96
KF-1, KFF-1	18	46	82	133	230	313	516
	16	33	57	93	161	220	362
	14	22	38	63	108	148	244
	12	14	25	41	72	98	161
	10	9	16	27	47	64	105
XF, XFF	12	4	8	13	23	31	51
	10	3	6	10	18	24	40

**Notes:**

1. This table is for concentric stranded conductors only. For compact stranded conductors, Table C.1(A) should be used.
2. Two-hour fire-rated RHH cable has ceramifiable insulation which has much larger diameters than other RHH wires.

Consult manufacturer's conduit fill tables.

\*Types RHH, RHW, and RHW-2 without outer covering.