

**One-Way Distance for 2% Drop at 240 Volts Single Phase  
Wire Size (THWN, THHN)**

<b>AMP</b>	<b>Watts at 240</b>	<b>No. 14</b>	<b>No. 12</b>	<b>No. 10</b>	<b>No. 8</b>	<b>No. 6</b>	<b>No. 4</b>	<b>No. 2</b>	<b>No. 1/0</b>	<b>No. 2/0</b>	<b>No. 3/0</b>
<b>5</b>	<b>1200</b>	180	285	455	720	1145					
<b>10</b>	<b>2400</b>	90	140	225	360	570	910	1445			
<b>15</b>	<b>3600</b>	60	95	150	240	380	610	970	1530		
<b>20</b>	<b>4800</b>	45	70	115	180	285	455	725	1150	1450	
<b>25</b>	<b>6000</b>	35	55	90	140	230	365	580	920	1160	1460
<b>30</b>	<b>7200</b>	30	48	75	120	190	300	480	770	970	1220
<b>40</b>	<b>9600</b>		36	56	90	140	230	360	575	725	915
<b>50</b>	<b>12000</b>			45	70	115	185	285	460	580	725
<b>60</b>	<b>14400</b>				60	95	150	240	385	485	610
<b>70</b>	<b>16800</b>				50	80	130	205	330	410	520
<b>80</b>	<b>19200</b>					70	115	180	285	360	460
<b>90</b>	<b>21000</b>					60	100	160	250	320	405
<b>100</b>	<b>24000</b>					55	90	145	230	290	365
<b>125</b>	<b>30000</b>						75	120	190	240	300
<b>150</b>	<b>36000</b>							95	150	195	245
<b>200</b>	<b>48000</b>							70	115	145	185

**Schedule 40 PVC**

These tables apply only if all the conductors in the pipe are the same size

**Wire Size (THWN, THHN)**

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

**Schedule 80 PVC**

These tables apply only if all the conductors in the pipe are the same size

**Wire Size (THWN, THHN)**

Conduit Size	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0
1/2"	9	6	4	2	1	1	1	1	-	-	-	-
3/4"	17	12	7	4	3	1	1	1	1	1	1	1
1"	28	20	13	7	5	3	3	2	1	1	1	1
1-1/4"	51	37	23	13	9	6	5	4	3	2	1	1
1-1/2"	70	51	32	18	13	8	7	6	4	3	3	2
2"	118	86	54	31	22	14	12	10	7	6	5	3

**Rigid EMT Conduit**

These tables apply only if all the conductors in the pipe are the same size

**Wire Size (THWN, THHN)**

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