

Transformer Tap Chart for #12-2 Wire

<i>Watts</i>	20	40	60	80	100	120	140	160	180	192
<i>Amps</i>	1.7	3.3	5.0	6.7	8.3	10.0	11.7	13.3	15.0	16.0
DISTANCE*										
25	12	12	12	13	13	13	13	13	13	13
50	12	13	13	13	13	14	14	14	14	15
75	12	13	13	14	14	14	15	15	16	16
100	13	13	14	14	15	15	16	16	17	17
125	13	13	14	15	15	16	17	17	18	18
150	13	14	14	15	16	17	18	18	19	20
175	13	14	15	16	17	18	19	20	21	21
200	13	14	15	16	17	18	20	21	22	
225	13	14	16	17	18	19	21	22		
250	13	15	16	17	19	20	21			
275	13	15	16	18	19	21	22			
300	14	15	17	18	20					
325	14	16	17	19	21					
350	14	16	18	20	21					
375	14	16	18	20	22					
400	14	16	18	21						
425	14	17	19	21						
450	14	17	19	22						
475	15	17	20	22						
500	15	17	20	23						
525	15	18	21							
550	15	18	21							
575	15	18	21							
600	15	18	22							
625	15	19	22							
650	16	19								
675	16	19								
700	16	20								
725	16	20								
750	16	20								
775	16	20								
800	16	21								
825	16	21								
850	17	21								
875	17	21								
900	17	22								
925	17	22								
950	17	22								
975	17									
1000	17									

Note: #12-2 wire is rated for a maximum of 20 amps and 240 watts. Always use no more than 80% (according to the National Electrical Code) thus a total of 192 watts of total amp load.

Formula used:

$$\text{Amps} \times \text{Distance} \times 2 \times \text{Resistance/foot} = \text{Watts} / \text{Volts}$$
 Resistance per foot for #12-2 wire = .00162

* Distance of wire is calculated from the transformer to the first connection point ONLY.

