

Transformer Tap Chart for #10-2 Wire

<i>Watts</i>	18	35	70	105	140	175	210	245	280	288
<i>Amps</i>	1.5	2.9	5.8	8.8	11.7	14.6	17.5	20.4	23.3	24.0
DISTANCE*										
25	12	12	12	13	13	13	13	13	13	13
50	12	12	13	13	13	14	14	14	15	15
75	12	13	13	13	14	14	15	15	16	16
100	12	13	13	14	15	15	16	16	17	17
125	12	13	14	14	15	16	17	18	18	19
150	13	13	14	15	16	17	18	19	20	20
175	13	13	14	15	16	18	19	20	21	21
200	13	13	15	16	17	18	20	21	22	22
225	13	13	15	16	18	19	21	22		
250	13	14	15	17	18	20	22			
275	13	14	16	17	19	21	22			
300	13	14	16	18	20	22				
325	13	14	16	18	20	22				
350	13	14	16	19	21					
375	13	14	17	19	22					
400	13	15	17	20	22					
425	14	15	17	20						
450	14	15	18	21						
475	14	15	18	21						
500	14	15	18	22						
525	14	15	19	22						
550	14	16	19	22						
575	14	16	19							
600	14	16	20							
625	14	16	20							
650	14	16	20							
675	14	16	21							
700	14	16	21							
725	14	17	21							
750	14	17	22							
775	15	17	22							
800	15	17	22							
825	15	17	22							
850	15	17								
875	15	18								
900	15	18								
925	15	18								
950	15	18								
975	15	18								
1000	15	18								

Note: #10-2 wire is rated for maximum of 30 amps and 360 watts. Always use no more than 80% (according to the National Electrical Code) thus a total of 288 watts of total lamp load.

Formula used:

$$\text{Amps} \times \text{Distance} \times 2 \times \text{Resistance/foot} = \text{Watts} / \text{Volts}$$
 Resistance per foot for #10-2 wire = .00108

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

