

# 12VDC VOLTAGE DROP CHART

## DINAM™ VOLTAGE DROP CHART FOR 12VDC

MINIMUM VOLTAGE REQUIRED FOR MAXIMUM LIGHT OUTPUT: 11.3V AT BEGINNING OF RUN

THIS CHART INDICATES DC VOLTAGE AT THE BEGINNING OF YOUR LED LINEAR RUN

Wire Size	Distance	Load Current in amps (per run)		
		2 amps / 24W	4 amps / 48W	8.33 amps
18 AWG	10 ft.	11.7	11.4	11.0
	25 ft.	11.3	10.5	9.3
	50 ft.	11.0	9.0	6.5
	100 ft.	9.4	6.1	
	200 ft.	6.7		
14 AWG	10 ft.	11.9	11.8	11.6
	25 ft.	11.7	11.4	11.0
	50 ft.	11.5	10.8	9.8
	100 ft.	11.0	9.7	7.7
	200 ft.	10.0	7.6	
12 AWG	10 ft.	11.9	11.9	11.7
	25 ft.	11.8	11.6	11.3
	50 ft.	11.7	11.3	10.6
	100 ft.	11.3	10.5	9.3
	200 ft.	10.7	9.0	6.6
10 AWG	10 ft.	12.0	11.9	11.9
	25 ft.	11.9	11.8	11.6
	50 ft.	11.8	11.5	11.1
	100 ft.	11.6	11.1	10.3
	200 ft.	11.2	10.2	8.6

## 24VDC VOLTAGE DROP CHART

### DINAM™ VOLTAGE DROP CHART FOR 24VDC

MINIMUM VOLTAGE REQUIRED FOR MAXIMUM LIGHT OUTPUT: 22.8V AT BEGINNING OF RUN

THIS CHART INDICATES DC VOLTAGE AT THE BEGINNING OF YOUR LED LINEAR RUN

Wire Size	Distance	Load Current in amps (per run)	
		4 amps / 96W	8.33 amps
18 AWG	10 ft.	22.8	22.0
	25 ft.	21.0	18.6
	50 ft.	18.0	13.0
	100 ft.		
	200 ft.		
14 AWG	10 ft.	23.6	23.2
	25 ft.	22.8	22.0
	50 ft.	21.6	19.7
	100 ft.	19.4	15.4
	200 ft.	15.4	
12 AWG	10 ft.	23.8	23.4
	25 ft.	23.2	22.6
	50 ft.	22.6	21.2
	100 ft.	21.0	18.6
	200 ft.	18.0	13.2
10 AWG	10 ft.	23.8	23.8
	25 ft.	23.6	23.2
	50 ft.	23.0	22.2
	100 ft.	22.2	17.2
	200 ft.	20.4	17.2