

**SpecFlex**  
Architectural Strip Lighting

# Max Run Length and 24V Dimmers

**MAX RUN LENGTH**

INPUT = 24VDC

**AFSS48 AND AFSS48-7H SERIES**

LED Driver	AFSS48-2	AFSS48-3	AFSS48-5	AFSS48-7	AFSS48-7H
<b>Wattage</b>	<b>Max Run Length</b>				
20W	9 Ft	6 Ft	3 Ft	2 Ft	2 Ft
36W	16 Ft	10 Ft	6 Ft	4 Ft	4 Ft
60W	26 Ft	17 Ft	11 Ft	8 Ft	8 Ft
96W	32 Ft	26 Ft	21 Ft	16 Ft	16 Ft

**AFSS73 SERIES**

LED Driver	AFSS73-3	AFSS73-5	AFSS73-7
<b>Wattage</b>	<b>Max Run Length</b>		
20W	6 Ft	3 Ft	2 Ft
36W	10 Ft	6 Ft	4 Ft
60W	17 Ft	11 Ft	8 Ft
96W	26 Ft	21 Ft	16 Ft

**AFSS42 AND AFSSCN SERIES**

LED Driver	AFSS42-5	AFSSCN-5
<b>Wattage</b>	<b>Max Run Length</b>	
20W	3 Ft	4 Ft
36W	6 Ft	7 Ft
60W	11 Ft	11 Ft
96W	21 Ft	16 Ft

**AFSD36 AND AFSD58 SERIES**

LED Driver	AFSD36-4RGB	AFSD58-7RGBW
<b>Wattage</b>	<b>Max Run Length</b>	
20W	4 Ft	2 Ft
36W	7 Ft	4 Ft
60W	12 Ft	8 Ft
96W	22 Ft	16 Ft

- Max Run refers to the total single run of Strip Light that can go on a Driver
- Max Run Lengths are calculated with 24V DC at the start of the Strip Light run. Voltage drop may occur if not using proper wire gauge. Refer to the Voltage Drop and Wire Length Distance chart.
- Max Run lengths above are calculated with no more than 30% light loss from the start of the Strip Light run to the end of the Strip Light run for optimal light consistency. If run lengths are extended beyond the recommended lengths noted above, there will be inconsistent light output and voltage drop.
- Overall distance of Strip Light under load (lit length). If exceeded, damage to the Driver and Strip Light may result.

**SpecFlex**  
Architectural Strip Lighting

# Max Run Length and 24V Dimmers

**DIMMING SPECIFICATIONS** LED Drivers have been tested with the following Dimmer Models:

### TRIAC (LEADING EDGE) DIMMING

Manufacturer	Product	Model
Leviton	SureSlide	6672, 6674, 6674N, 66DF
	Decora Smart	D26HD, D2MSD, DN6HD
	Decora Digital	DDL06-1, DDM06, DDL06-1, DDMX1
	Decora Slide	DSL06, DSM10
	Illumatech	IPL06
	Trimatron Rotary	RDL06, RNL06
	Toggle Slide	TSL06, TSM10
Lutron	Caseta	PD-6WCL
	Diva	DVEL-153P
	Lumea	LECL-153P
	Maestro	MACL-153M
	Skylark	SCL-153P
	Toggler	TGCL-153P

### ELV (TRAILING EDGE) DIMMING

Manufacturer	Product	Model
Leviton	Decora Digital	DDE06
Lutron	Diva	DVELV-300P-WH
	Skylark	SELV-300P-WH

### 0-10V DIMMING

Manufacturer	Product	Model
Leviton	IllumaTech	IP710-DLX, IP710-LFZ
Lutron	Diva	DVSCSTV, DVSCTV, DVSTV, DVTV, DVTV-WH

- Testing has been performed on these Dimmers, but this does not imply any warranty of compatibility
- Dimming performance can be influenced by different Loads, as well as variations in Dimmer Switches within the same Model
- Dimmer Maximum Load Rating with LED may differ from published Traditional Source Dimmer Ratings; consult manufacturer for maximum dimmer information
- Consult factory for additional dimming information

## VOLTAGE DROP AND WIRE LENGTH DISTANCE

### 3% VOLTAGE DROP

Wire Gauge	20W	30W	36W	60W	96W
22 AWG	27 Ft	18 Ft	15 Ft	9 Ft	5 Ft
20 AWG	43 Ft	28 Ft	24 Ft	14 Ft	9 Ft
18 AWG	68 Ft	45 Ft	38 Ft	23 Ft	14 Ft
16 AWG	109 Ft	72 Ft	60 Ft	36 Ft	23 Ft
14 AWG	174 Ft	115 Ft	95 Ft	57 Ft	36 Ft
12 AWG	272 Ft	181 Ft	151 Ft	90 Ft	57 Ft
10 AWG	432 Ft	288 Ft	240 Ft	144 Ft	90 Ft

The Voltage Drop/Wire Length Distance Chart provides general guidelines for determining wire gauge based on total load and distance from the Driver to the beginning of the Strip Light run.