RESOURCE - VOLTAGE DROP CHART LOW VOLT LINEAR



Voltage drop is the amount of voltage loss that occurs in wire due to resistance. It is important to calculate drop when configuring your LED system. This is done as a standard practice when requesting a quote. Using the incorrect gauge wire can lead to issues such as flickering, light loss and altered color temp. The chart below shows an approximation of gauge wire needed for a 100W system.

STATIC 24 VOLT SIGNATURE, DESIGN, AND PRO LINEAR & NEON

WIRE MATERIAL	# OF CONDUCTORS	AMPS	VOLTAGE	PHASE	WIRE GAUGE	MAX DISTANCE (FT)	VOLTAGE LOS
					20*	29	4.91%
					18	47	5.00%
					17	59	4.98%
					16	75	5.02%
Copper	2	4	24	DC	15	94	4.99%
					14	119	5.01%
					13	150	5.01%
					12	189	5.00%
					11	238	5.00%
					10	300	4.98%
WIRE MATERIAL	# OF CONDUCTORS	AMPS	VOLTAGE	PHASE	WIRE GAUGE	MAX DISTANCE (FT)	VOLTAGE LO
Copper					20*	59	4.99%
	4	4	24	DC	18	86	4.52%
					17	115	4.85%
					16	150	5.02%
					15	185	4.91%
					14	230	4.84%
					13	285	4.76%
					13	285 360	4.76% 4.76%

^{*20} Gauge not used for Neon

This chart gives general guidelines for determining wire gauges based on total distance from driver to LED ribbon.

Nova Flex retains the right to modify the design of our products at any time as part of the company's continual product improvement program

FIXTURE

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DATE