LINKLED RGB
LED LIGHT ENGINES

FEATURES / BENEFITS

- Extremely long life of 50,000 hours at 55ºC PCB temperature
- Modular “Plug & Play” system for flexible design in curved or unusualy shaped areas.
- Red, Blue and Green LEDs allows for infinite number of colors (RGB controller/driver required)
- Aluminum based PCB for easier heat dissipation and more efficient operation
- Available Color Kinetics pass through license, consult factory for details

OPERATING CONDITIONS

- Recommended PCB temp=55ºC (131ºF)
  Maximum PCB temp = 75ºC (167ºF)
- LED Life @ 55ºC PCB temp = 50,000 hours
- For maximum performance, all “LinkLED-RGB” LED Light Engines should be adhered to an appropriate heat sink using adhesive backing (provided)
- Recommended drivers = Colordriver XP, DMX, *RF or *SL (* with mfg date of 3/08 or later)
- Thermal conductivity = 1.3W/m-k
- Breakdown voltage = 2kV

APPLICATIONS

- Cove lighting
- Bars / Reception areas
- Channel Letters
- Advertising
- Any application requiring dynamic color changing efficiency, long life and flexibility in size and shape of light source.

MECHANICAL DIMENSIONS

Length = 52.5mm (2.07”)
Width = 21mm (0.83”)
Height = 7.85mm (0.31”)

MATERIALS/FINISH

- LUXEON® I LEDs
- 1.6mm Aluminum clad PCB substrate

PART NUMBERS

Part Number
LK3-RGB

Recommended Cables:
CT4-100 = 4 way link lead 100mm (3.9”)
CT4-200 = 4 way link lead 200mm (7.9”)
CT4-C = 4 way common connector
CDL-M3M = 8 way Molex, male to male
CT4-MLXF = 4 way connect to 8 way Molex female
CT4-MLXM = 4 way connect to 8 way Molex male

Dialight reserves the right to make changes at any time in order to supply the best product possible.

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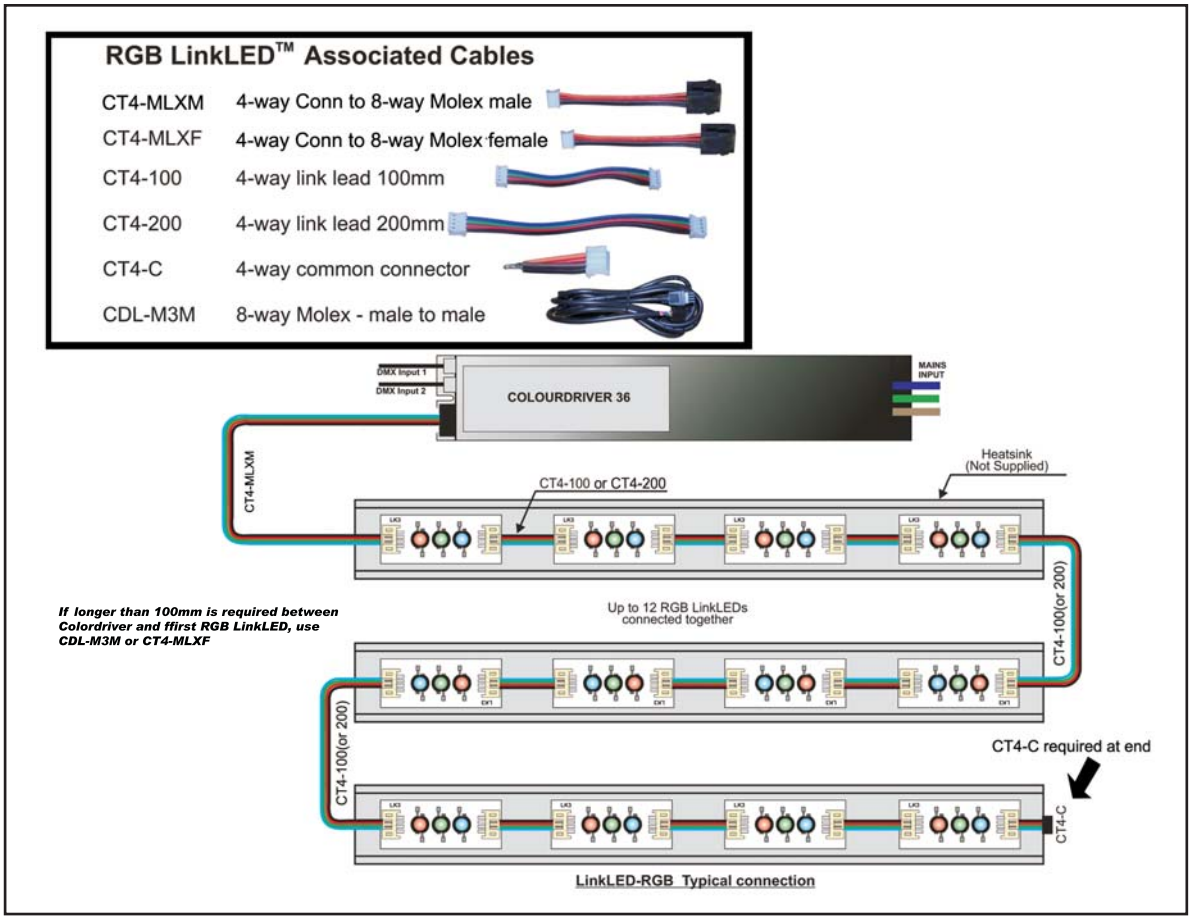
WIRING INFORMATION



TYPICAL LED PHOTOMETRIC DATA

LED	Color	Forward Voltage (Typ)	Max.Current (mA)	Max. Power (Watts)	Dom Wavelength / CCT			Min Luminous Flux (lm) / Radiometric Power (mW)	Typ Luminous Flux (lm) / Radiometric Power (mW)
					Min	Typ	Max		
	Red	2.95	350	1.03	620.5 nm	627 nm	645 nm	30.6 lm	44 lm
	Green	3.42	350	1.20	520 nm	530 nm	550 nm	30.6 lm	53 lm
	Royal Blue	3.42	350	1.20	440 nm	455 nm	460 nm	145 mW	220 mW

Maximum current input 350mA
Maximum power consumption
1.2W per LED for Blue / Green,
1.0W per LED for Red.

Results are LED manufacturer's test data @ 25ºC JTC'. Light output at 55ºC PCB temperature will be approximately 15-20% lower. Elevated temperatures will result in further degradation of light output. For maximum performance use appropriate heat sinking.

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