



LINKLED RGB (WITH OPTIC) LED LIGHT ENGINES



RU (UL Recognized component) pending
Patents pending

FEATURES / BENEFITS

- ▲ Extremely long life of 50,000 hours at 55°C PCB temperature
- ▲ Modular "Plug & Play" system for flexible design in curved or unusually shaped areas.
- ▲ Red, Blue and Green LEDs allows for infinite number of colors (RGB controller/driver required)
- ▲ Modular F-Form optic system allows for 5, 15, 25 & 5X20 oval beam patterns*
- ▲ Aluminium based PCB for easier heat dissipation and more efficient operation
- ▲ RU (UL recognized component) for easier submittal of fixture listings pending
- ▲ Available Color Kinetics pass through license, consult factory for details

OPERATING CONDITIONS

- ▲ Recommended PCB temp=55°C
Maximum PCB temp = 75°C
- ▲ LED Life @ 55°C 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)
- ▲ Thermal conductivity = 1.3W/m-k
- ▲ Breakdown voltage = 2kV
- ▲ Recommended drivers = Colordriver DMX, RF or SL

MECHANICAL DIMENSIONS

Length = 94.0mm (3.54")
Width = 22.5mm (.89")
Height = 15.5mm (.61")

PART NUMBERS

Part Number

LKOP-RGB-XXX

Recommended Cables:

CT4-100 = 4 way link lead 100mm
CT4-200 = 4 way link lead 200mm
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

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.

MATERIALS/FINISH

- ▲ LUXEON® I LEDS
- ▲ 1.6mm Aluminium clad PCB substrate
- ▲ White solder resist finish

Optics (purchased separately)

- ↳ OP-005, 5° optic
- ↳ OP-015, 15° optic
- ↳ OP-025, 25° optic
- ↳ OP-520, 5° X 20° oval optic

* Half-divergence angles

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

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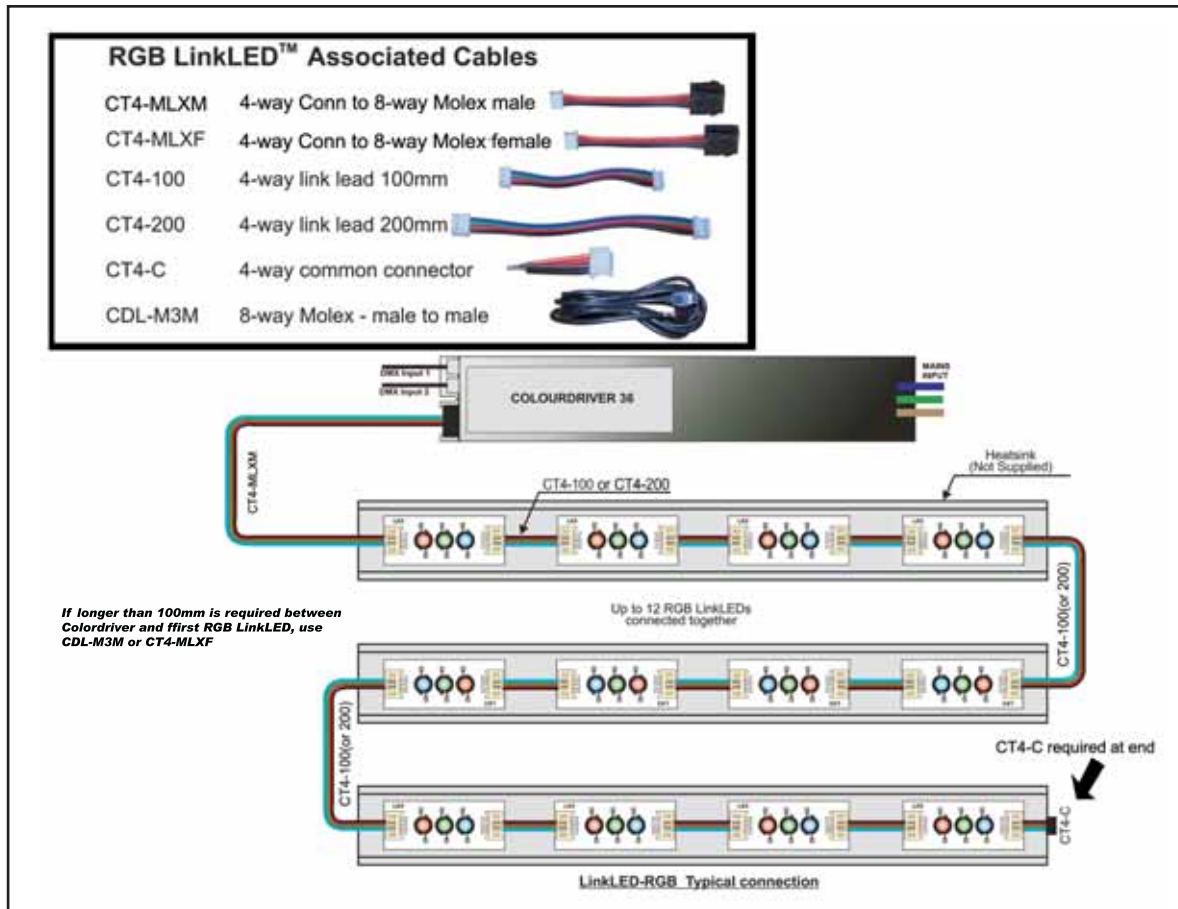
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MDEXLKLD RGBOP_B

WIRING INFORMATION



ELECTRICAL SPECIFICATIONS

Typical LED Electrical and Optical Characteristics

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 @ 25°C JTC'. Light output at 55°C 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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