



HL16 RGB LED LIGHT ENGINE



OPERATING CONDITIONS

- ▲ Operating Ambient Temperature -10°C to +40°C
- ▲ Maximum Current 350mA

MECHANICAL DIMENSIONS

Diameter = 50.0mm (1.97")
Height = 36.0mm (1.42"), 37.5mm (1.48") with sub lens attached
Lead Length = 150mm (5.91")

PART NUMBER

HL16-RGB

FEATURES / BENEFITS

- ▲ Individually controllable red, blue and green LED's complete with heatsink housing comparable to MR16 size
- ▲ Ability to create infinite numbers of colors or dynamic color changing effects
- ▲ Easy retrofit to existing MR16 fixtures
- ▲ Sub-lenses included for choice of light distribution
- ▲ Long life of 50,000hrs at 70°C PCB temperature
- ▲ Optimized thermal management
- ▲ No UV or IR
- ▲ Available Color Kinetics pass through license, consult factory for details

APPLICATION

- ▲ Dynamic color changing
- ▲ Entertainment lighting
- ▲ Accent lighting
- ▲ Landscape lighting
- ▲ Display cases
- ▲ Anywhere MR 16 lamps are used

MATERIALS/FINISH

- ▲ Die Cast heatsink construction
- ▲ Wide & micro sub-lenses included

ASSOCIATED CABLES

- RJ45-CON ASSY** : Connector assembly (1 required per HL-16 RGB)
- RJ45-C** : Termination plug
- RJ45-XLRM** : RJ45 male to molex male 100mm cable
- RJ45-XLRF** : RJ45 male to molex female 100mm cable
- CDL-M3M** : Molex male to male 3m cable

Dialight Corporation

1501 Route 34 South • Farmingdale, NJ 07727 USA

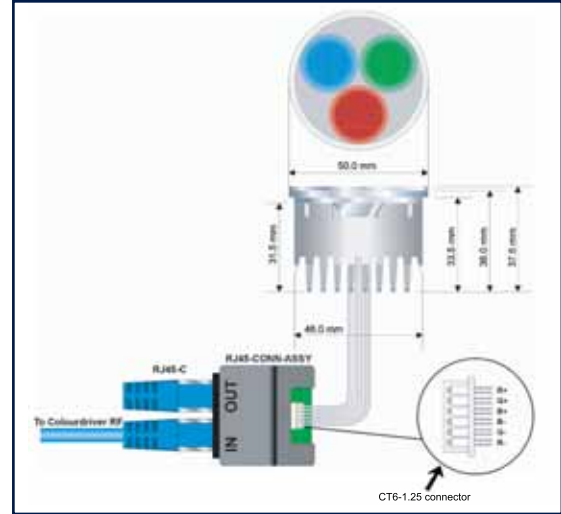
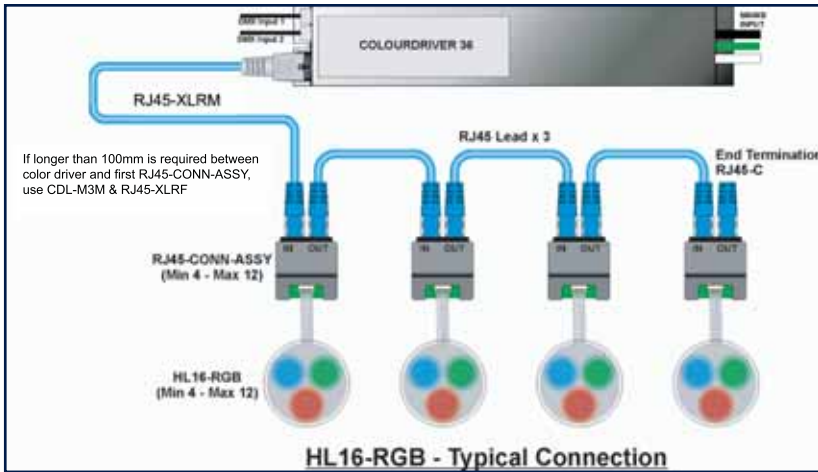
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MDEXLUMHL16RGB_A

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

WIRING INFORMATION



COMPATIBLE DRIVERS

Model	Maximum number of HL16s connected	Supply Voltage	Dimming	Dimensions
Colordriver RF	6	110 - 240 V	X	179 x 53 x 32 mm
Colordriver 36	4 -12	110 - 240 V	X	310 x 55 x 45 mm

ELECTRICAL SPECIFICATIONS

Power Consumption = 3.6 watts

Maximum Current = 350mA constant current

TYPICAL LED PHOTOMETRIC DATA

Color	Typical Light Output in Lumens/mW
R Red	32 lm
B Blue	204 mW
G Green	42 lm

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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