

PRODUCT NEWS - *Special Surface Mount LEDs* for BLMA Signal Heads

For all scales, multiple 603 size surface mount LEDs with #36 wires attached are available for use in signal heads made by BLMA and other manufacturers.

For information about single wired surface mount LEDs, please refer to the section on that topic.

Bi-color assemblies with two LEDs (such as red plus aqua green) wired back-to-back or side-to-side, are available. These assemblies are all made to order due to the large number of variations that are possible. The purchaser can specify:

1. The colors (typical choices are red, amber, aqua green, blue, sunny white and golden white)
2. The wire length (the default wire length is 6 " (15 mm))
3. The wiring connection:
 - Back-to-back, with two wires for two LEDs (require changing voltage polarity)
 - Common anode, with three wires for two LEDs (require DC voltage polarity), and
 - Common cathode, with three wires for two LEDs (require DC voltage polarity).

A red/amber/aqua tri-color LED assembly will be developed if sufficient interest is seen.

Bi-color LED assemblies are \$6.00 each. When ordering, please specify the items discussed above. Please note that these are all made to order and will generally not be available for rapid shipment.

When using all LEDs, the current **MUST** be limited using a resistor or another means. See the 1Q06 Newsletter for assistance in selecting resistors, or contact us. On request, we will supply one free resistor of the customer's choice with each LED.

We **STRONGLY** recommend using Pacer's Formula 560 Canopy Glue to secure these LEDs in position. If your local retailer doesn't carry this ZAP product, Richmond Controls is usually prepared to furnish single bottles for \$4.00 each.