SAE Aerospace
An SAE International Group

AEROSPACE RECOMMENDED PRACTICE

ARP4156 | REV. B

Issued 1989-10
Revised 2006-11

Superseding AS4156A

Color-Coded Incandescent Flange Base T-1 and T-1 3/4 Lamps for Voltage Identification

RATIONALE

The driving force for the change is to update the document according to industry updates, mostly terminology. The changes would make the document current.

FOREWORD

There are a number of incandescent flange base miniature lamps that have identical appearance and produce approximately the same light output, but are designed at different voltages, primarily 5.0, 14.0, 28.0, and 32.0 volts. In several applications, a 5.0 volt lamp installed in place of a 28.0 volt lamp can cause failures of electronic components due to its lower impedance and, consequently, higher current. Because these lamps are identical in appearance and so small as to make identification by markings almost impossible, this document is intended to provide, a means of identification of voltage differences.

1. SCOPE

This document defines the method for voltage identification by the use of color-coded insulators at the base of the lamps. Table 1 shows the design volts and corresponding insulator colors.

The part numbers shown are for example purposes only, as an option.

Insulator colors are to be easily distinguishable as green, yellow, red, and white. Additional colors may be added by a revision process as required.

2. REFERENCES

There are no referenced publications specified herein.

3. RECOMMENDATIONS

For aerospace applications, lamps should be ordered by the part numbers as shown in the examples in Table 1 so that replacement lamps can be easily identified as to voltage.

TO PLACE A DOCUMENT ORDER: **Tel: 877-606-7323 (inside USA and Canada)**
Tel: 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
SAE WEB ADDRESS: **http://www.sae.org**