

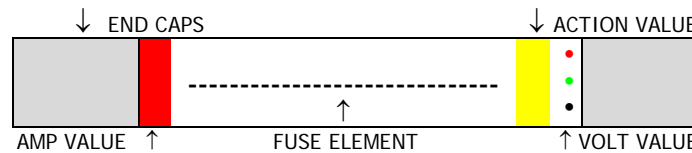
The **Safety Alert FusE** is basically a method of color coding fuses, to allow for the rapid visual identification of the fundamental characteristics of a fuse; amperage, voltage and action value.

For example glass cartridge-type fuses; the amperage and voltage values are stamped on the metal end caps. These are the only markings to verify the identity of a fuse. Reading the correct amperage and voltage for this type of fuse, even with 20/20 vision is unreasonably difficult. Action value of the fuse is not identified.

Under these conditions mistakes can and do happen. It is therefore a preeminent objective to provide a universal method for marking fuses, which allows for the rapid visual identification of amperage, voltage, and action value of a particular fuse. The benefits to persons and equipment are safety. Which equates to \$\$\$ Profit.

Safety Alert FusE method for marking fuses is based on the universal color coding system used for resistor values. Below is our concept of the **Safety Alert FusE**. The ornamental design of the **Safety Alert FusE** allows for rapid visual identification of the fundamental characteristics of a fuse; amperage, voltage and action value. This concept applies to all types and sizes of fuses in all electrical equipment and components. The three key elements; amps/volts/action are positively identified through color values.

Fuse size and colors not to scale.



2AMP – 250V - SLOW-BLOW FUSE

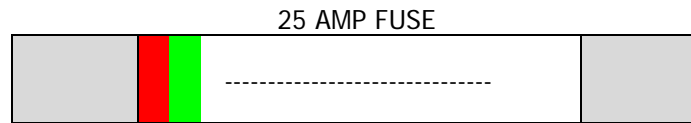
Safety Alert FusE method for marking fuses is based on the universal color coding system used for resistor values, as illustrated below:

FUSE AMPEREAGE/VOLTAGE COLOR CODE VALUES:

COLOR	VALUE
BLACK	0
BROWN	1
RED	2
ORANGE	3
YELLOW	4
GREEN	5
BLUE	6
VIOLET	7
GRAY	8
WHITE	9
GOLD	DENOMINATOR FOR FRACTIONAL VALUES

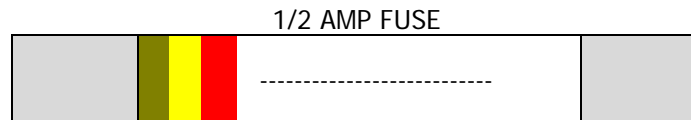
Safety Alert Fuse amperage values will be determined by reading the solid color band(s), adjacent to the end cap, from left to right for whole numbers with the fuse in the horizontal position.

Example: 25 Amp fuse will have; 1 red band (2), 1 green band (5).



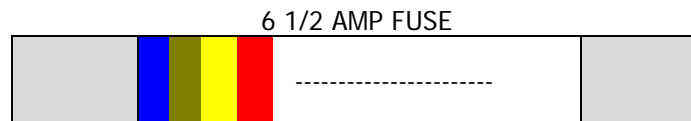
Fractional fuse amperage values will be determined by reading the solid color band(s), adjacent to the end cap, from left to right with the numerator being the first color band separated by a gold band (denominator), and the fractional number(s) being the second set of band(s).

Example: 1/2 Amp fuse will have; 1 brown band (1), 1 gold band (denominator), and 1 red band (2).



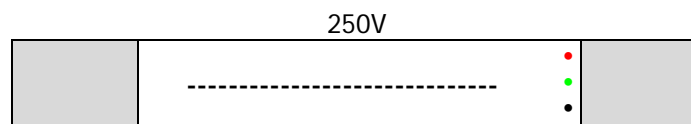
Fuses with whole and fractional values will be determined by reading the solid color band(s), adjacent to the end cap, from left to right, with the whole numbers being the first set of band(s) separated by a gold band (denominator), and the fractional numbers being the second set of band(s).

Example: 6 1/2 Amp fuse will have; 1 blue band (6), 1 brown band (1), 1 gold band (denominator), and 1 red band (2).

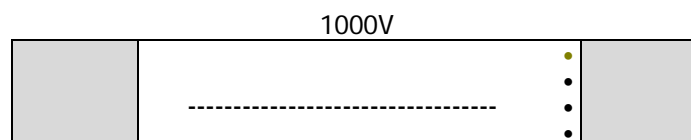


Safety Alert Fuse voltage values are located to the right side of the fuse adjacent to the end cap, when in the horizontal position. Using the same color code values, fuse voltage values will be determined by reading the colored dots vertical top to bottom or North to South.

Example: 250-Volt fuse will have; 1 red dot (2), 1 green dot (5), and 1 black dot (0).



Example: 1000-Volt fuse will have; 1 brown dot (1), 3 black dots (0).

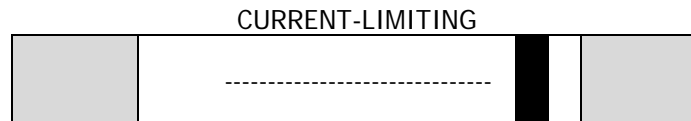


Safety Alert FusE action values are solid colored band(s) located to the right side of the fuse, left of the voltage values, when in the horizontal position. Fuse-action values will be determined by reading the solid colored band(s) from left to right. To insure these colored bands are not confused with the amperage band(s), the colors for these band(s) are gold, silver and black, or a combination thereof.

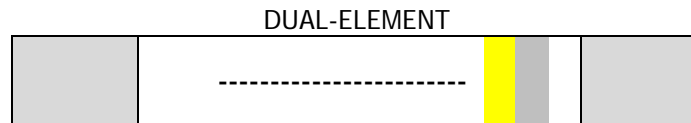
FUSE ACTION COLOR CODE VALUES:

SLOW-BLOW	ONE GOLD BAND		
FAST-ACTING	ONE SILVER BAND		
CURRENT- LIMITING	ONE BLACK BAND		
DUAL-ELEMENT	ONE GOLD AND ONE SILVER BAND		
AMP-TRAP	TWO GOLD BANDS		
TIME-DELAY	TWO SILVER BANDS		
RECTIFIER-ONE WAY	TWO BLACK BANDS		

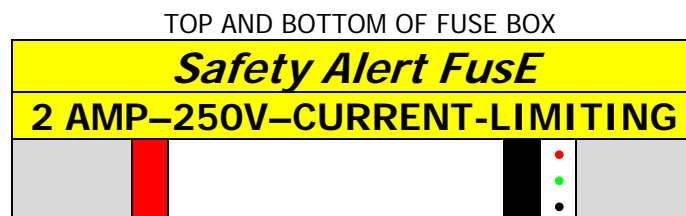
Examples: Current-Limiting fuse; 1 black band.



Dual-Element fuse; 1 gold band, 1 silver band.



It is anticipated the **Safety Alert FusE** will be packaged in yellow boxes indicating fuse type and color reference chart.



It is anticipated the **Safety Alert FusE** will be packaged in yellow boxes indicating fuse type and color reference chart – Continued:

BACK OF FUSE BOX	
AMP/VOLT/ACTION VALUES	
LEFT BANDS = AMPS	DOTS = VOLTAGE
COLOR	VALUE
BLACK	0
BROWN	1
RED	2
ORANGE	3
YELLOW	4
GREEN	5
BLUE	6
VIOLET	7
GRAY	8
WHITE	9
GOLD	FRACTIONAL/DENOMINATOR
RIGHT BANDS = ACTION	
SLOW-BLOW	ONE GOLD BAND
FAST-ACTING	ONE SILVER BAND
CURRENT-LIMITING	ONE BLACK BAND
DUAL-ELEMENT	ONE GOLD ONE SILVER BAND
AMP-TRAP	TWO GOLD BANDS
TIME-DELAY	TWO SILVER BANDS
RECTIFIER-ONE WAY→	TWO BLACK BANDS

Fuse ID Decals will be included so color markings can be made on equipment for future fuse replacement.

Accurate fusing of electrical equipment is essential. Purpose and advantage of the **Safety Alert FusE** Method is to reduce the possibility of improperly fusing an electrical circuit. This can cause damage and/or harm to persons and equipment.

The cost to implement the **Safety Alert FusE** Method would be insignificant, compared to the benefits to persons and equipment. The benefits are safety.

Acceptance of the **Safety Alert FusE** Method may mean exclusive rights to manufacture and distribute.

Should you have any questions, concerns or require additional information, please feel free to contact us anytime. 1.800.730.0337 or email us at safefuse@chcelevator.com

Thank You!



R. Dennis Chandler

Think Safe – Be Safe!