# Littelfuse Expertise Applied | Answers Delivere

### 481 Series Alarm Indicating Fuse









#### **Agency Approvals**

| Agency      | Agency File Number |
|-------------|--------------------|
| 71          | E71611             |
| <b>(P</b> ) | LR 29862           |

#### **Electrical Characteristics**

| % of Ampere<br>Rating | Opening Time        |
|-----------------------|---------------------|
| 100%                  | 10 Minutes, Minimum |
| 150%                  | 5 Minutes, Maximum  |

#### **Description**

481 Series alarm indicating fuses are designed to reduce down time by immediately pinpointing the blown (open) circuit while triggering an LED or audio alarm. This item requires 482 Series mating fuse holder.

All ranges of 481 Series fuses are available as our original design, and the 2-20 amp range is now available as a RoHS compliant option (use the "P" designator when ordering). See the part numbering section of this data sheet for related ordering instructions.

#### **Features**

- Color-coded indicator flags indicate ampere rating.
- Clear plastic lens option available for additional safety.
- Body is constructed of black plolyphenylene sulfide with UL-94V0 flammability rating.
- Contacts made of bright alloy-plated beryillioum copper.

#### **Applications**

Ideal for telecommunications and control panel circuits

#### **Electrical Characteristics**

| Ampere<br>Rating | Amp  | Max<br>Voltage | Interrupting                                   | Body<br>Color | Nominal<br>Cold Resistance | Nominal Melting |             | ency<br>ovals |
|------------------|------|----------------|--|---------------|----------------------------|-----------------|-------------|---------------|
| (A)              |      | Rating         | Rating Code                                    | (Ohms)        | l²t (A² Sec.)              | <b>47</b> .     | <b>(P</b> ) |               |
| 0.180*           | .180 |                |  | Yellow        | 6.25                       | 0.00808         | X           | X             |
| 0.200*           | .200 |                | 450A @ 60 VDC<br>300A @ 125 VAC<br>(up to 20A) | Red/Black     | 5.70                       | 0.0140          | X           | X             |
| 0.250*           | .250 |                |  | Violet        | 4.20                       | 0.0356          | X           | X             |
| 0.375*           | .375 |                |  | Gray/White    | 2.00                       | 0.028           | X           | X             |
| 0.500*           | .500 |                |  | Red           | 1.52                       | 0.139           | X           | X             |
| 0.650*           | .650 |                |  | Black         | 1.25                       | 0.278           | X           | X             |
| 0.750*           | .750 |                |  | Brown         | .980                       | 0.363           | X           | X             |
| 1.00*            | 001. |                |  | Gray          | .665                       | 0.733           | X           | X             |
| 1.33*            | 1.33 |                |  | White         | .480                       | 1.58            | X           | X             |
| 1.50*            | 01.5 | 125 VAC        | (up to ZUA)                                    | Yellow/White  | .385                       | 2.55            | X           | X             |
| 2.00             | 002. | &              | 300A @ 125 VDC                                 | Orange        | .120                       | 5.29            | X           | X             |
| 2.50             | 02.5 | 125 VDC        | 25 VDC (up to 15A)  200A @ 125 VDC (up to 20A) | Orange/White  | .0904                      | 9.46            | X           | Х             |
| 3.00             | 003. |                |  | Blue          | .0670                      | 11.2            | X           | X             |
| 3.50             | 03.5 |                |  | Blue/White    | .0415                      | 10.5            | X           | X             |
| 4.00             | 004. |                |  | Brown/White   | .0350                      | 15.4            | X           | X             |
| 5.00             | 005. |                |  | Green         | .0285                      | 26.2            | X           | Х             |
| 7.50             | 07.5 |                |  | Black/White   | .0113                      | 42.8            | X           | X             |
| 10.0             | 010. |                |  | Red/White     | .00840                     | 115.3           | X           | X             |
| 12.0             | 012. |                |  | Green/Yellow  | .00660                     | 222.5           | X           | X             |
| 15.0             | 015. |                |  | Red/Blue      | .00580                     | 294.22          | X           | X             |
| 20.0**           | 020. |                |  | Green/White   | .00394                     | 570.0           | X           | X             |

<sup>\* 0.180</sup>A thru 1.5A items are not available for sale as a RoHS compliant "P" option

20A Fuseholder is designed to accept all ratings up to 20 amperes.

<sup>\*\*20</sup>A Fuseholder must be used. Fuse is keyed to prevent insertion in lower rated holders.

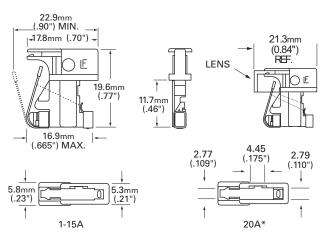


#### **Product Characteristics**

|           | Body: Polyphenylene Sulfide (UL 94VO)     |  |
|-----------|---|--|
| Material  | Terminations: Beryllium Copper/Tin Plated |  |
|           | Optional Lens: Nylon                      |  |
| Vibration | Per MIL-STD-202F                          |  |

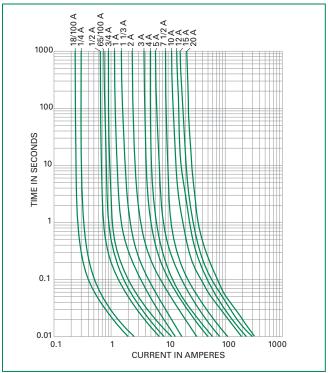
| Operating Temperature                 | – 55°C to 90°C.                        |  |  |
|---------------------------------------|--|--|--|
| Thermal Shock                         | Withstands 5 cycles of – 55°C to 125°C |  |  |
| Insulation Resistance (After Opening) | Greater than 10,000 ohms.              |  |  |

#### **Dimensions**

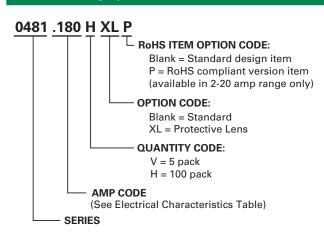


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## Average Time Current Curves



#### **Part Numbering System**



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