

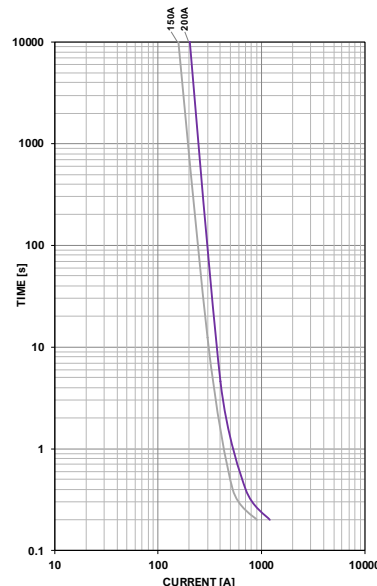
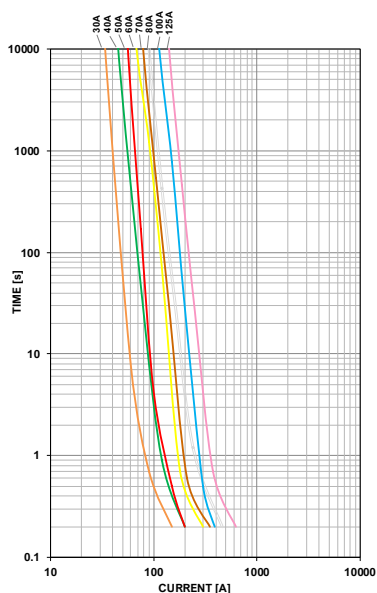
## BF1 Fuses Rated 58V

This BF1 fuse is rated at 58V and offers a bolt-on fuse for high current wiring protection. Current rating 30A - 200A; with transparent housing material for easy detection of blown fuses.

### Specifications

|                                        |                                               |
|----------------------------------------|-----------------------------------------------|
| Voltage Rating:                        | 58 VDC                                        |
| Interrupting Rating:                   | 1000A @32 VDC                                 |
| Recommended Environmental Temperature: | -40° to 125°C                                 |
| Terminals Material:                    | Tin plated copper alloy                       |
| Housing Material:                      | PET-GF33 (U.L. 94 Flammability rating – V0)   |
| Clear Housing Material:                | PES (U.L. 94 Flammability rating – V0)        |
| Mounting Torque M5:                    | 4.5 Nm +/- 1Nm                                |
| Mounting Torque M6:                    | 6.0 Nm +/- 1Nm                                |
| Refers to:                             | ISO 8820-5:2015, UL 248 Special Purpose Fuses |

### Time-Current Characteristic Curves



### Ordering Information

| Part Number   | Rating   | Package Size | Bolt Size | Bolt Hole Qty |
|---------------|----------|--------------|-----------|---------------|
| 142.5631.xxxx | 30 - 200 | 500          | M5        | 2             |
| 142.7010.xxxx | 30 - 200 | 500          | M6        | 2             |
| 142.0020.xxxx | 30 - 200 | 500          | N/A       | 0             |

### Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) |             |
|-------------|----------------------------|-------------|
|             | 30-125A                    | 150-200A    |
| 75          | - / -                      | 360,000 / ∞ |
| 100         | 360,000 / ∞                | - / -       |
| 110         | 14,400 / ∞                 | - / -       |
| 150         | 90 / 3,600                 | - / -       |
| 200         | 3 / 100                    | 1 / 15      |
| 300         | 0.3 / 3                    | - / -       |
| 350         | - / -                      | 0.3 / 5     |
| 500         | 0.1 / 1                    | - / -       |
| 600         | - / -                      | 0.1 / 1     |

### Ratings

| Part Number M5 | Part Number M6 | Current Rating (A) | Housing Material Color | Test Cable Size (mm²) | Typ. Voltage Drop (mV) | Typ. Cold Resistance (mΩ) | Typ. I²t (A²s) |
|----------------|----------------|--------------------|------------------------|-----------------------|------------------------|---------------------------|----------------|
| 142.5631.5302¹ | 142.7010.5302¹ | 30                 | Orange                 | 2.5                   | 105                    | 2.70                      | 5,100          |
| 142.5631.5402  | 142.7010.5402  | 40                 | Green                  | 4                     | 90                     | 1.56                      | 6,800          |
| 142.5631.5502  | 142.7010.5502  | 50                 | Red                    | 6                     | 80                     | 1.03                      | 6,900          |
| 142.5631.5602  | 142.7010.5602  | 60                 | Yellow                 | 6                     | 75                     | 0.75                      | 16,200         |
| 142.5631.5702  | 142.7010.5702  | 70                 | Brown                  | 10                    | 70                     | 0.64                      | 22,000         |
| 142.5631.5802  | 142.7010.5802  | 80                 | White                  | 10                    | 70                     | 0.55                      | 25,600         |
| 142.5631.6102  | 142.7010.6002  | 100                | Blue                   | 16                    | 70                     | 0.44                      | 42,500         |
| 142.5631.6122  | 142.7010.6122  | 125                | Pink                   | 25                    | 70                     | 0.34                      | 62,500         |
| 142.5631.6152  | 142.7010.6152  | 150                | Grey                   | 25                    | 70                     | 0.29                      | 83,400         |
| 142.5631.6202² | 142.7010.6202  | 200                | Purple                 | 35                    | 70                     | 0.24                      | 126,000        |

Note 1: Not UL rated

Note 2: Short Circuit Protector only

The typical I²t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

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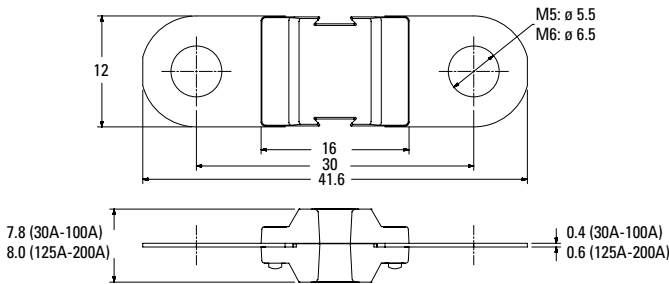
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## BF1 Fuse Rated 58V

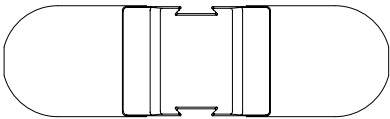
### Dimensions

Dimensions in mm for reference only.  
See outline drawing for dimensions and tolerances.

### BF1 2 Holes M5/M6

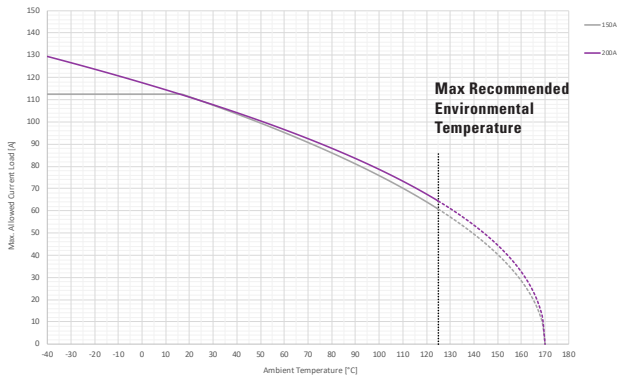
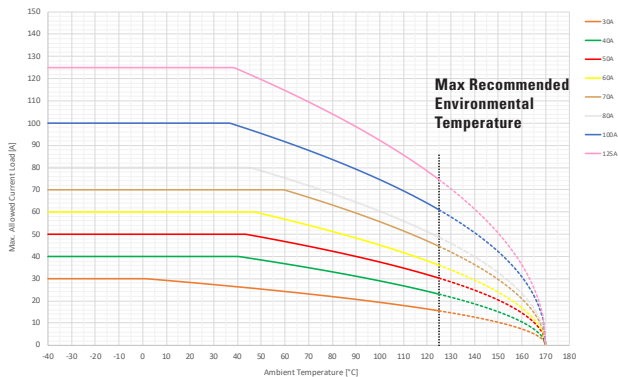


### BF1 No Holes versions



### Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%  
Please contact Littelfuse® for Details Regarding Derating Test Set-Up.



### Temperature Table

|      | max. allowed current load [A] at ambient temperature (typical derating) |     |      |      |      |       |       |
|------|-------------------------------------------------------------------------|-----|------|------|------|-------|-------|
|      | -40°C                                                                   | 0°C | 20°C | 65°C | 85°C | 110°C | 125°C |
| 30A  | 30                                                                      | 30  | 28   | 24   | 21   | 18    | 16    |
| 40A  | 40                                                                      | 40  | 40   | 36   | 32   | 27    | 23    |
| 50A  | 50                                                                      | 50  | 50   | 46   | 41   | 35    | 30    |
| 60A  | 60                                                                      | 60  | 60   | 55   | 50   | 42    | 36    |
| 70A  | 70                                                                      | 70  | 70   | 68   | 61   | 51    | 45    |
| 80A  | 80                                                                      | 80  | 80   | 74   | 66   | 56    | 49    |
| 100A | 100                                                                     | 100 | 100  | 90   | 81   | 70    | 61    |
| 125A | 125                                                                     | 125 | 125  | 112  | 101  | 86    | 75    |
| 150A | 113                                                                     | 113 | 111  | 93   | 84   | 70    | 61    |
| 200A | 129                                                                     | 118 | 111  | 95   | 86   | 73    | 64    |

Derating curves may change depending on the final condition of the application (terminals characteristics, wire size etc.).  
Please ask Littelfuse for more information.

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