

# BF1 Series

## Bolt-down Fuses – Rated 58V



### Description

BF1 58V fuses use Slo-Blo® technology to protect high-current wiring harnesses. Use the 150 A and 200 A fuses only for short circuit protection.

### Features & Benefits

- Color coding indicates ampere rating
- High-contrast ampere rating stamps aid identification
- Refers to ISO 8820-5:2015
- Available with one, two or no mounting holes
- Transparent cover make it easier to see when fuse blow

### Applications

- Cars / SUVs
- Trucks
- Offroad vehicles
- Buses
- Watercraft as approved by Littelfuse®

### Additional Information



Resources



Samples

[See Disclaimer Notice](#)

### Specifications

<b>Voltage Rating:</b>	58 V DC
<b>Interrupting Rating:</b>	30 A: 1000A @ 58VDC 40 A - 150 A: 2000A @ 32 VDC 200 A: 1500A @ 32 VDC
<b>Recommended Environmental Temperature:</b>	-40 °C to +125 °C
<b>Terminals Material:</b>	Tin plated Copper
<b>Opaque Housing Material:</b>	PET-GF33 (U.L. 94 Flammability rating – V0)
<b>Clear Housing Material:</b>	PES (U.L. 94 Flammability rating – HB)
<b>Mounting Torque M5:</b>	4.5 Nm +/- 1Nm
<b>Mounting Torque M6:</b>	6.0 Nm +/- 1Nm
<b>Comply With:</b>	UL 248 Special Purpose Fuse
<b>Refers To:</b>	ISO 8820-5:2015

### Ordering Information

Part Number	Current Rating (A)	Package Size	Bolt Size	Bolt Hole Qty
142.5631.xxxx	30 - 200	500	M5	2
142.7010.xxxx	30 - 200		M6	2
142.0020.xxxx	30 - 200		-	0

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### Ratings

Part Number M5	Part Number M6	Current Rating (A)	Housing Material Color	Test Cable Size (mm <sup>2</sup> )	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I <sup>2</sup> t (A <sup>2</sup> s)
142.5631.5302 <sup>1</sup>	142.7010.5302 <sup>1</sup>	30	Orange	2.5	105	2.70	5100
142.5631.5402	142.7010.5402	40	Green	4	90	1.56	6800
142.5631.5502	142.7010.5502	50	Red	6	80	1.03	6900
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	142.7010.6102	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
142.5631.6202 <sup>2</sup>	142.7010.6202	200	Purple	35	70	0.24	126 000

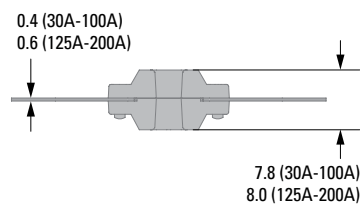
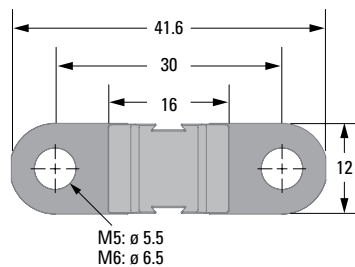
**Note 1:** Not UL rated

**Note 2:** Short Circuit Protector only

**Note 3:** The typical I<sup>2</sup>t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

### Dimensions

Dimensions in mm. Please refer to the outline drawing for dimensions and tolerances.



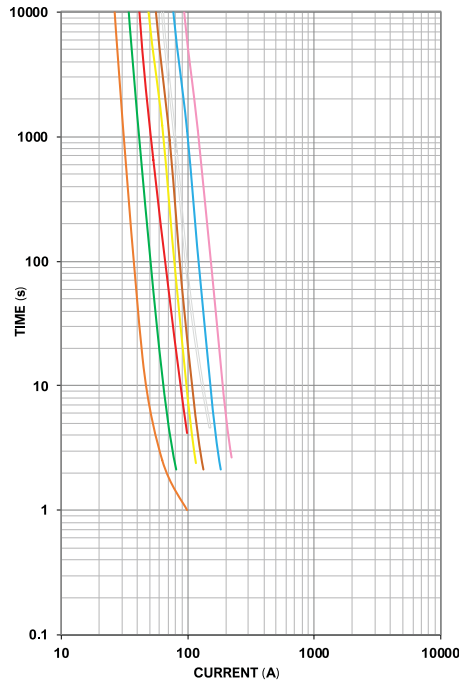
No Holes versions



# BF1 Series

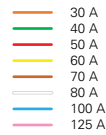
Bolt-down Fuses – Rated 58V

## Time-Current Characteristic

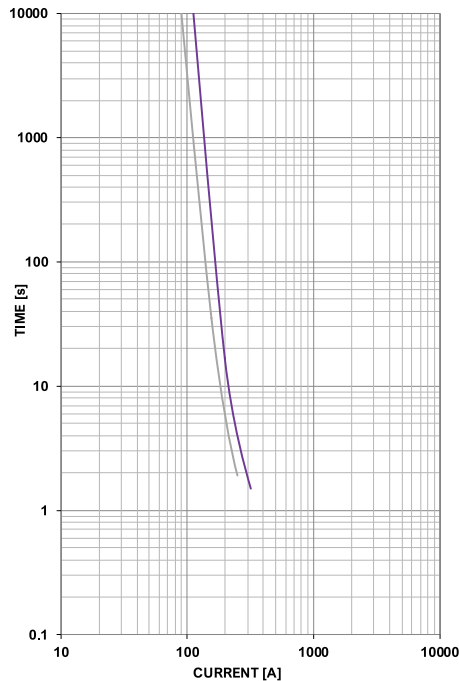


### 30 A - 125 A

% of Rating	Opening Time Min. / Max. (s)
75	- / -
100	360 000 / -
110	14 400 / -
150	90 / 3 600
200	3 / 100
300	0.3 / 3
350	- / -
500	0.1 / 1
600	- / -



**Note:** Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc.). Please contact Littelfuse® for more information.



### 150 A - 200 A

% of Rating	Opening Time Min. / Max. (s)
75	360 000 / -
100	- / -
110	- / -
150	- / -
200	1 / 15
300	- / -
350	0.3 / 5
500	- / -
600	0.1 / 1



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# BF1 Series

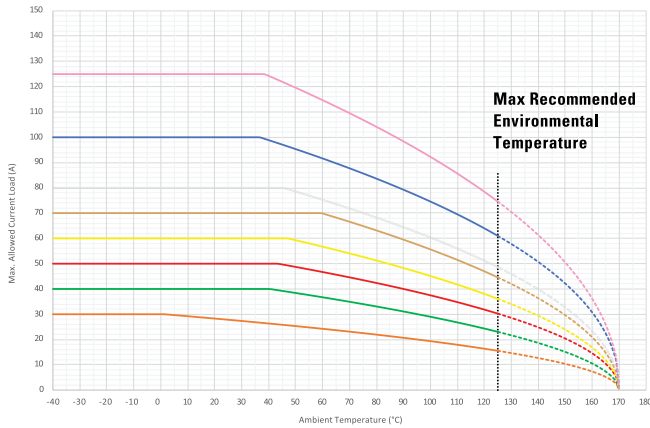
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### Typical Derating Curves

Temperature security margin is 20%

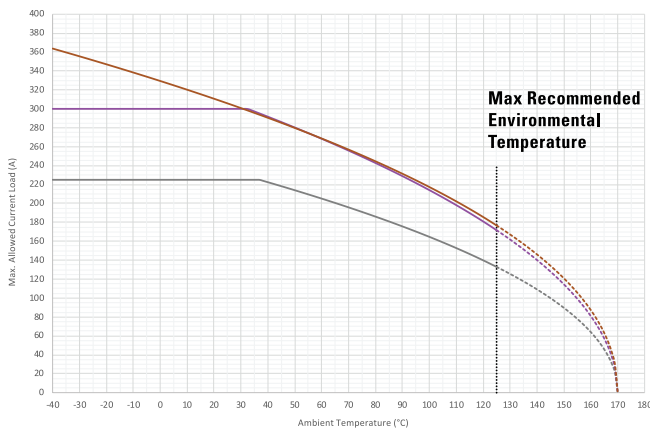
Wire Cross Section And Fixture Test Set Up Refer To ISO 8820-3

Please contact Littelfuse® for Details Regarding Derating Test Set Up.



	Max. allowed current load (A) at ambient temperature based on typical derating						
	-40 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
<b>30 A</b>	30	30	28	24	21	18	16
<b>40 A</b>	40	40	40	36	32	27	23
<b>50 A</b>	50	50	50	46	41	35	30
<b>60 A</b>	60	60	60	55	50	42	36
<b>70 A</b>	70	70	70	68	61	51	45
<b>80 A</b>	80	80	80	74	66	56	49
<b>100 A</b>	100	100	100	90	81	70	61
<b>125 A</b>	125	125	125	112	101	86	75
<b>150 A</b>	113	113	113	113	111	94	81
<b>200 A</b>	150	150	148	126	115	98	86

- 30 A
- 40 A
- 50 A
- 60 A
- 70 A
- 80 A
- 100 A
- 125 A



- 150 A
- 200 A

**Note:** Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc.). Please contact Littelfuse® for more information.

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