

# 1000VDC FERRULE FUSES/SPECIAL PURPOSE



Ferraz Shawmut DCT fuses were developed to meet requirements coming from new applications such as protection of photovoltaic cells, multi meters and compact on board traction equipment for auxiliary circuits. This high performance DC fuse in its compact size offers multiple competitive advantages particularly for international applications where DC voltage requirements are above 600V DC.

### Ratings

- **AC:** 1 to 30A, 750V AC, 100,000A I.R. Minimum breaking capacity:  $2 I_n$
- **DC:** 1 to 30A 1000V DC, 50,000A I.R. Minimum breaking capacity:
  - 1 - 7A :  $1.3 I_n$
  - 8 - 30A :  $2.0 I_n$

### Features/Benefits

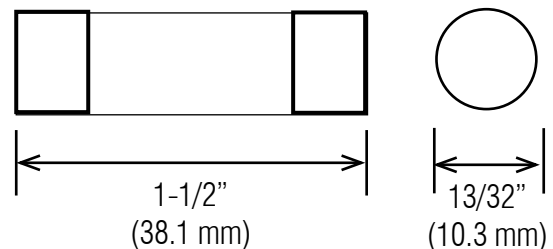
- 1000VDC with L/R = 1ms
- 750VAC
- Low minimum breaking capacity
- Compact size: 10 X 38 mm (13/32 X 1-1/2) size internationally accepted.
- Ferrule mount 1 to 30A for design versatility
- Can be used with UltraSafe Fuseholders USM series
- Also available as PCB mount

### Approvals

- UL Recognized components
- UL file E60314

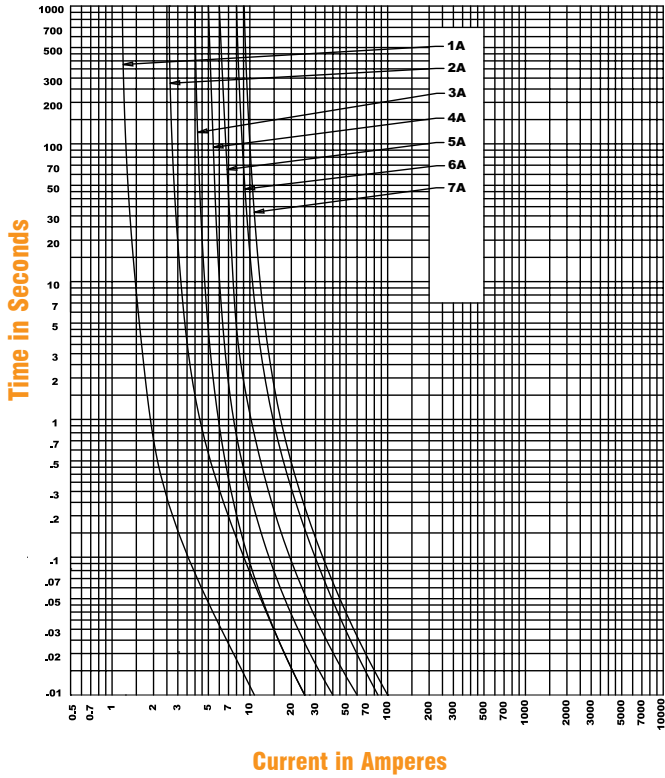
## Standard Fuse Amp ratings, catalog numbers, $I^2t$ (at 50,000 Amps –1000VDC L/R = 1ms)

Ampere rating	Catalog Number	Clearing $I^2t$ (A <sup>2</sup> s)	Watt loss @ 100% Rating (W)
1	DCT1-2	-	0.32
2	DCT2-2	-	0.43
3	DCT3-2	-	1.4
4	DCT4-2	-	1.3
5	DCT5-2	-	1.4
6	DCT6-2	-	1.5
7	DCT7-2	-	1.5
8	DCT8-2	83	1.1
10	DCT10-2	127	1.5
12	DCT12-2	215	2.0
15	DCT15-2	495	3.0
20	DCT20-2	755	4.4
25	DCT25-2	970	5.3
30	DCT30-2	1650	5.8

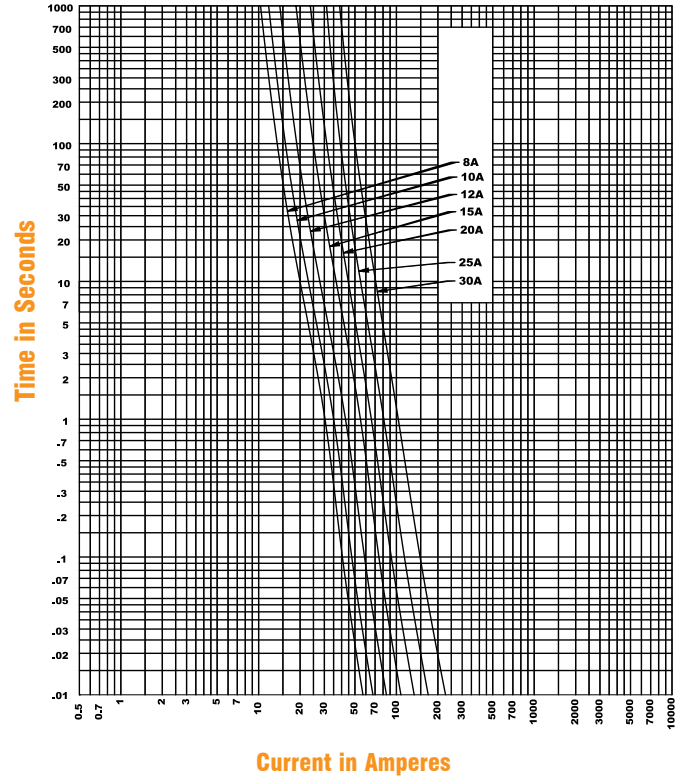


# 1000V DC FERRULE FUSES/SPECIAL PURPOSE

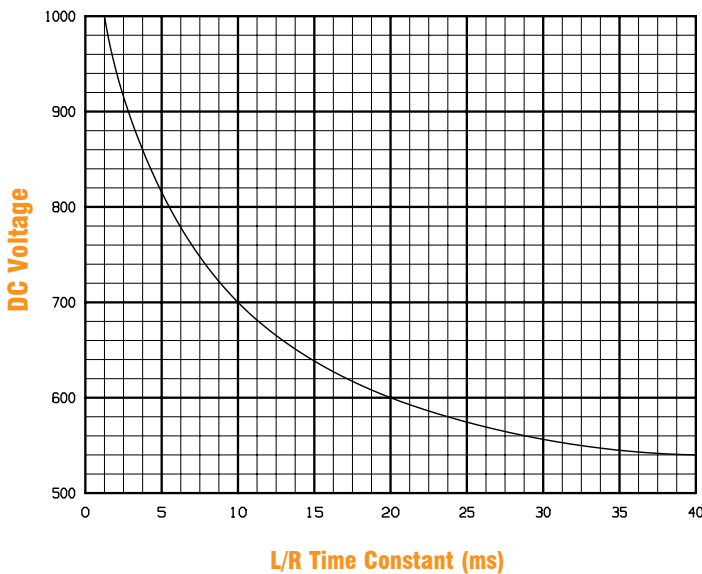
**Melting Time — Current Data**



**Melting Time — Current Data**



**DC Voltage Capabilities vs. Time Constant**



**Peak Let-Through Current**

