

Type 0650C/0650P

Quick-acting Fuse Series (High -Breaking Capacity)

HF Pb 0650C/0650P Series, 5x20mm Ceramic Tube Quick-acting Fuse RoHS Compliant

Description

5x20mm quick-acting, high breaking capacity, ceramic body cartridge fuse designed, approved and complied with IEC 60127-2, standard sheet 1.

Features

- High breaking capacity (250V ac @1500A)
- Meet IEC standard 60127-2, sheet 1
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Halogen Free
- Lead Free

Applications

Provide individual protection for components or internal circuits.

- Power supplies
- Battery charger
- Monitor
- Adapter

LEAD FREE = Pb
HALOGEN FREE = HF



Physical Specifications

Materials	Body : Ceramic
	Cap : Nickel Plated Brass Caps
	Leads : Matte Tin Plated Copper
Marking	On Fuse :
	"F", "Current Rating", "H", "250V",
	"bel", "Appropriate Safety Logos"
	On Label :
	"bel", "0650C" or "0650P", "F", "Current Rating", "H", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and "RoHS", "e" (China RoHS compliant).

Electrical Characteristics (Reference IEC-127-2 standard) Safety Agency Approvals

Rated Current	1.5 In		2.1 In		2.75 In		4 In		10 In
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX
500mA to 3.15A	1	30	10	2	3	300	20		
4A to 6.3A	1	30	10	3	3	300	20		
8A to 12A	1	30	40	20	10	1000	30		
	hr.	min.	ms	sec	ms	ms	ms		

Safety Agency	Safety Agency Certificate	Ampere Rating/ Voltage Rating	Ampere Range / Volt @ I.R. ability*
UL	E506667	500mA-12A /250V AC	500mA-12A/250V AC@1500A
TÜV	J 50691080 Tested according to EN 60127-1:2006+A1+A2 EN 60127-2:2014+A1	500mA-12A /250V AC	500mA-12A/250V AC@1500A
*I.R.= Interrupting Rating = Short Circuit Rating (Amps)			

Specifications subject to change without notice



belfuse.com/circuit-protection

Please read our datasheet & drawing disclaimer [here](#).

Environmental Specifications

Shock Resistance	MIL-STD-202G, Method 213B, Test Condition 1 (100 G's peak for 6 milliseconds; Sawtooth waveform)
Vibration Resistance	MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test Condition B (48 hrs).
Insulation Resistance	MIL-STD-202G, Method 302, Test Condition B (After Opening) 100,000 ohms minimum.
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G, Method 210F, Test Condition B. (260+/-5°C, 10+/-1 sec)
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B (-65°C to +125°C).
Operating Temperature	-55°C to +125°C
Terminal Strength	IEC-68-2-21

Electrical Specifications

Catalog Number	Ampere Rating	Typical Cold Resistance (ohms)	Volt-drop @100%In (Volt) max.	Voltage and Interrupting Ratings	Melting I²T <10 mSec (A² Sec)	Maximum Power Dissipation (W)	Agency Approvals	
								
0650C0500-XX	500mA	0.354	0.280	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	0.317	0.140	Y	Y
0650P0500-XX							Y	Y
0650C0630-XX	630mA	0.243	0.250		0.517	0.158	Y	Y
0650P0630-XX							Y	Y
0650C0800-XX	800mA	0.278	0.300		0.250	0.240	Y	Y
0650P0800-XX							Y	Y
0650C1000-XX	1A	0.276	0.380		0.788	0.380	Y	Y
0650P1000-XX							Y	Y
0650C1250-XX	1.25A	0.135	0.220		1.68	0.275	Y	Y
0650P1250-XX							Y	Y
0650C1600-XX	1.6A	0.085	0.180		2.82	0.288	Y	Y
0650P1600-XX							Y	Y
0650C2000-XX	2A	0.068	0.180		3.09	0.360	Y	Y
0650P2000-XX							Y	Y
0650C2500-XX	2.5A	0.048	0.180		5.76	0.450	Y	Y
0650P2500-XX							Y	Y
0650C3150-XX	3.15A	0.035	0.150		9.09	0.472	Y	Y
0650P3150-XX							Y	Y
0650C4000-XX	4A	0.020	0.120		27.50	0.480	Y	Y
0650P4000-XX							Y	Y
0650C5000-XX	5A	0.016	0.110		40.55	0.550	Y	Y
0650P5000-XX							Y	Y
0650C6300-XX	6.3A	0.012	0.110		66.82	0.693	Y	Y
0650P0630-XX							Y	Y
0650C8000-XX	8A	0.0087	0.100		136.80	0.800	Y	Y
0650P8000-XX							Y	Y
0650C9100-XX	10A	0.0080	0.100		177.45	1.000	Y	Y
0650P9100-XX							Y	Y
0650C9120-XX	12A	0.0060	0.100		289.00	1.200	Y	Y
0650P9120-XX							Y	Y

Consult manufacturer for other ratings

Specifications subject to change without notice



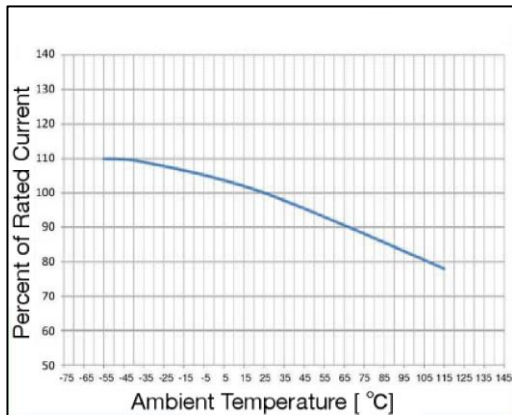
Bel Fuse Inc.
300 Executive Drive, Suite 300,
West Orange, NJ 07052 USA

© 2026 Bel Fuse, Inc.

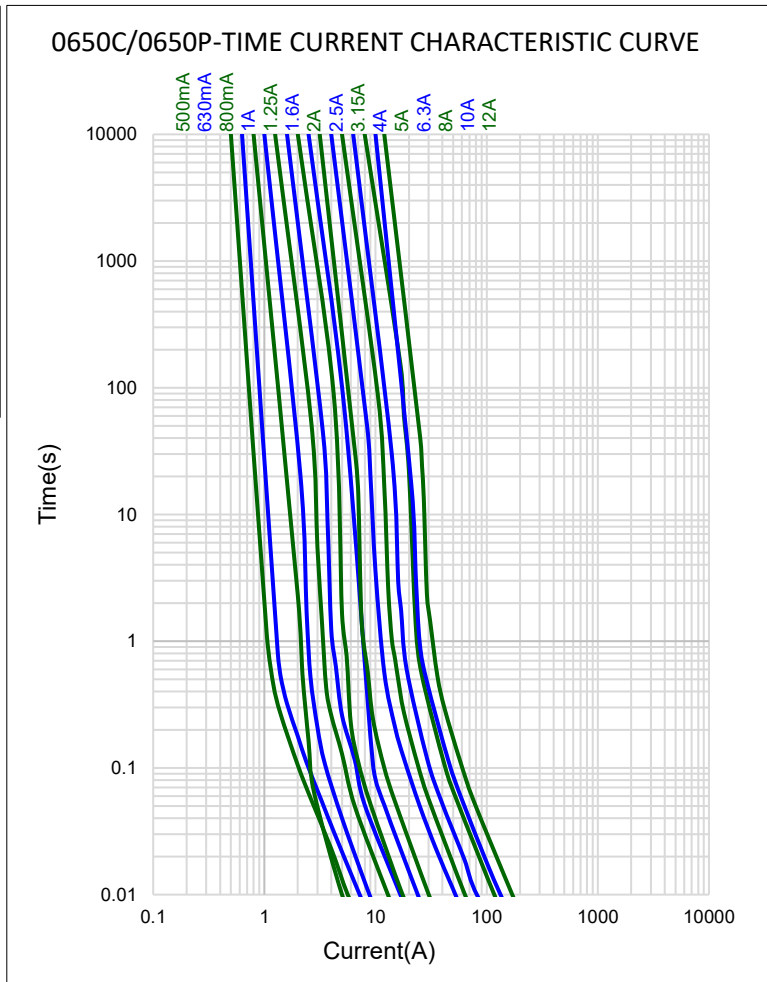
+1 201.432.0463
Bel.US.CS@belf.com
belfuse.com/circuit-protection

Rev. 0650C/0650P June 2026

Temperature Derating Curve

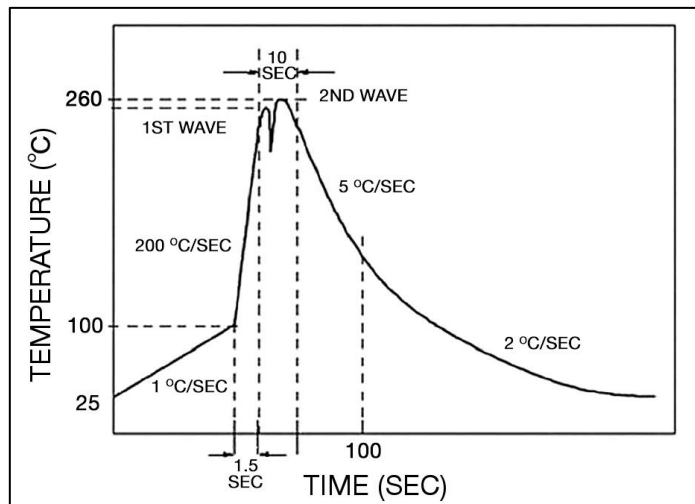


Average Time Current Curve



Soldering Parameters

Lead-free Wave Soldering Profile	
Wave Soldering Parameter	
Average ramp-up rate	200°C / second
Heating rate during preheat	typical 1 - 2°C / second Max 4°C / second
Final preheat temperature	within 125°C of soldering temperature
Peak temperature Tp	260°C
Time within +0°C / -5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C / second max.



Specifications subject to change without notice



Bel Fuse Inc.
300 Executive Drive, Suite 300,
West Orange, NJ 07052 USA

© 2026 Bel Fuse, Inc.

+1 201.432.0463
Bel.US.CS@belf.com
belfuse.com/circuit-protection

Rev. 0650C/0650P June 2026

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Cartridge Fuses](#) category:

Click to view products by [Bel Fuse](#) manufacturer:

Other Similar products are found below :

[MDX-2](#) [FLSR-15](#) [FLSR-30](#) [H362003](#) [BK1GMD-4-R](#) [BK1-S505-5-R](#) [20.0M6.3X32F](#) [FSC-3.5A](#) [361.250](#) [TF16SN0.63TTD](#) [MDX-4](#) [MDX-5](#) [MKB-1/8](#) [514030](#) [BK/ABS-20](#) [BK/MKB-1/8](#) [BP/GMA-3A](#) [31301.8](#) [323010](#) [323015](#) [334.750](#) [361.010](#) [361.062](#) [514001](#) [BKABS-30](#) [BK1-S505-3-15-R](#) [BP/GMA-1A](#) [BK/C520-1.5-R](#) [002621009](#) [BK-AGC-B-2-R](#) [002631001](#) [002631006](#) [004112134](#) [004112135](#) [004116101](#) [004119101](#) [004119102](#) [004119103](#) [004139100](#) [004139101](#) [004139200](#) [004139201](#) [004139203](#) [004139204](#) [004139206](#) [004139207](#) [004139208](#) [004139209](#) [004744223](#) [BK/MDL-1-1/8-R](#)