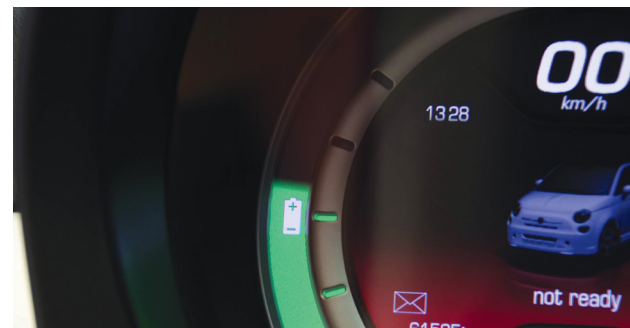




Expertise Applied | Answers Delivered



AUTOMOTIVE PASSENGER CAR CATALOG

BLADE FUSES
HIGH VOLTAGE FUSES
SMD COMPONENTS

CARTRIDGE FUSES
MASTERFUSES
CABLE PROTECTION

HIGH CURRENT FUSES
PAL FUSES
SPECIALTY PRODUCTS

Helping to make the World a Cleaner Place to Live



Littelfuse and the Environment

As members of the global community, we at Littelfuse have always strived to understand the impact of what we do, and of what we create, on the world around us. Because of this, our concern for the environment has always been an integral and fundamental part of our business. We continually work to balance our business objectives with the need to protect and improve the local and global environment.

Our Strategy for the Design of Eco-friendly Products

Littelfuse has established a focused program committed to developing high-performance eco-friendly products along with a comprehensive set of processing/reliability data and technical process expertise. This includes processes for eliminating, detecting and documenting the presence of hazardous materials such as

- Lead
- Cadmium
- Hexavalent Chromium
- Mercury
- Brominated flame-retardants (PBBs and PBDEs)

The Littelfuse strategy for eco-friendly products is specifically designed to help support our worldwide customers in their transition to Lead-Free processing.



All products considered to be lead-free are marked with this symbol.

Littelfuse defines lead-free as products which contain less than 1000ppm (0.1%) Lead, measured by weight of the entire product.



All RoHS compliant products are marked with this symbol.

Littelfuse follows the requirement set by the European Union for all RoHS compliant products. The European Union Directive 2002/95/EC RoHS restricts the use of Lead, Mercury, Hexavalent Chromium, Cadmium and Brominated flame-retardants (PBBs and PBDEs)

Visit www.littelfuse.com/lead-free for further information.



10EV Fuses

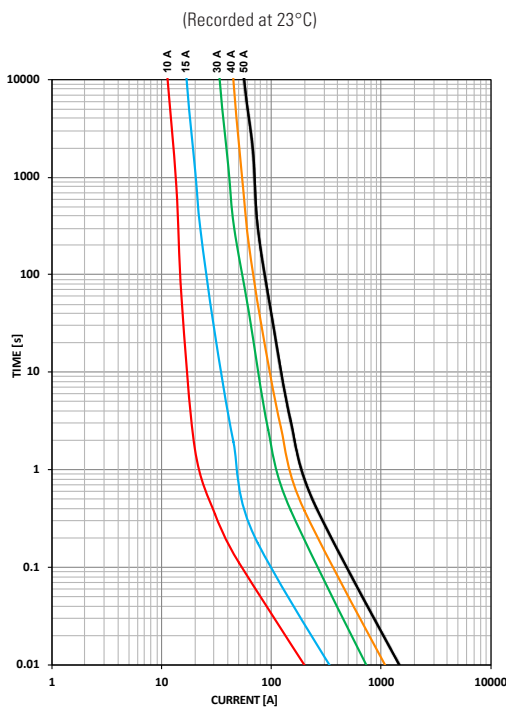
Low Current 10EV Fuse

The 10EV fuse is designed for protection of high-voltage accessory circuits in electric and hybrid electric vehicles.

Specifications

Voltage Rating:	500 VDC/VAC
Interrupting Rating:	20kA @ 500VDC/VAC
Operating Temperature Range:	-40°C to +125°C
Material:	Body - Melamine (U.L. 94 Flammability rating - V-0) End Caps - Brass / Nickel Plated Terminals - Copper Alloy / Tin Plated (Nickel for ZXISO and ZXBPD version only)
Recommended Mounting Torque:	4,5 ±1 Nm M5 (ISO prescription for ZXISO and ZXBPD version)
Refers To:	ISO 8820-8 JASO D622

Time-Current Characteristic Curves



Ordering Information

Weight ±10% (g)	Part Number	Termination	Package Qty
7.8	10EVxxx.ZXC	Cartridge	320
10	10EVxxx.ZXISO	Bolt Down (ISO)	320
11.6	10EVxxx.ZXPY	Blade	320
10.8	10EVxxx.ZXBPD	Bolt Down (Axial)	320
8.2	10EVxxx.ZXPCB	PCB Mount	320
8.3	10EVxxx.ZXPCBL	PCB Mount (Long)	320

Time-Current Characteristics

% of Rating	Opening Time Min / Max (s)
110	4 hrs / ∞
135	150 / 3600
150	10 / 1000
200	0.5 / 100
300	0.1 / 15
500	0.05 / 1

Ratings

Part Number	Current Rating (A)	Color Code	Typical Voltage Drop at 70% I _R (mV)	Maximum Voltage Drop Spec at 100% I _R (mV)	Test Cable Size (mm ²)	Typical Cold Resistance (mΩ)	Typical Melting I ² t (A ² s)
10EV010.xxx	10	Red	114	300	1	12.8	316
10EV015.xxx	15	Blue	83	200	1.5	7.4	803
10EV020.xxx	20 (*)	Yellow	Coming up	200	2.5	Coming up	Coming up
10EV030.xxx	30	Green	67	200	5	3	1527
10EV040.xxx	40	Orange	69	200	5	2.1	4450
10EV050.xxx	50	Black	74	200	5	1.3	7803

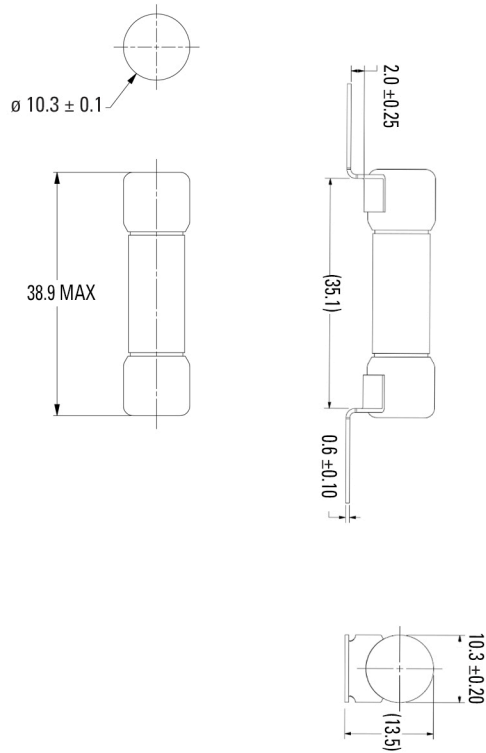
Final values for voltage drop, resistance, melting I²t and T/C curves will be generated from PV tests data
(*) Products in development - please contact Littelfuse® for more details regarding availability timing.

Low Current 10EV Fuse

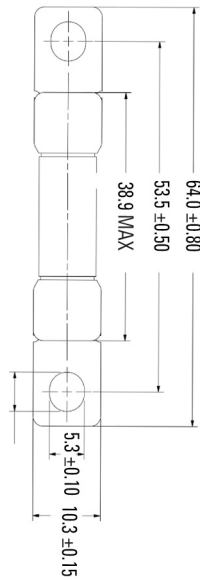
Dimensions

Dimensions in mm

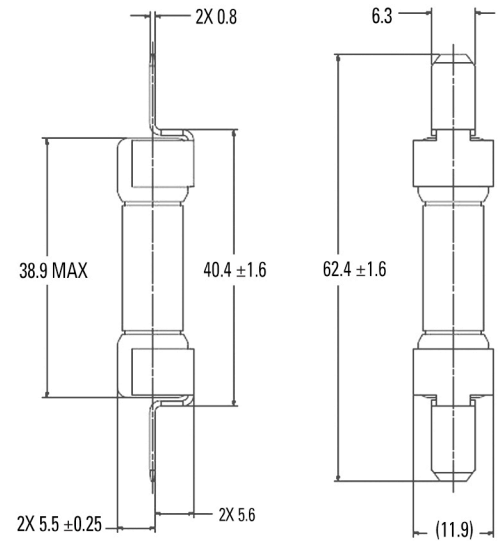
ZXC Cartridge



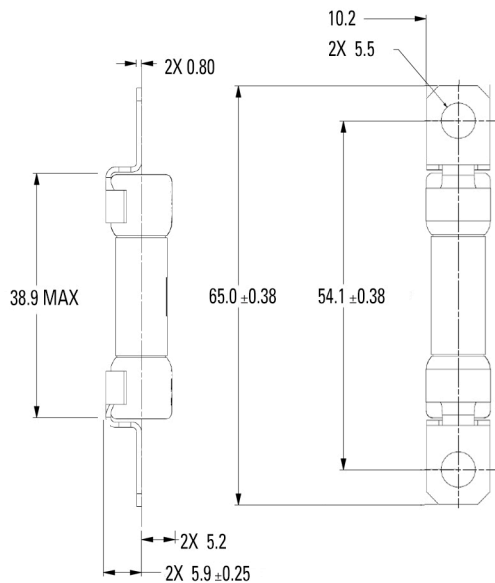
ZXISO Bolt Down (ISO)



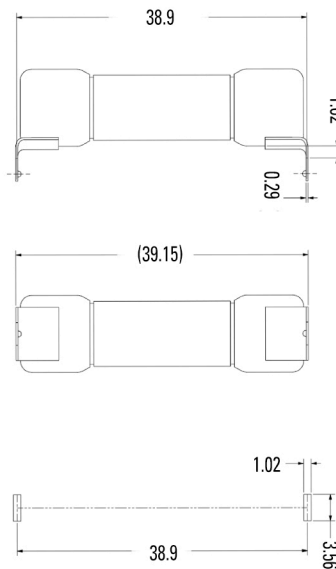
ZXPY Blade



ZXBDP Bolt Down (Axial)



ZXPCB PCB Mount



ZXPCBL PCB Mount (Long)

