

Section Overview

Diverse application needs require a broad range of fuses. Littelfuse offers a full line of fuses for various applications. As the market leader in automotive and electronics fuses, we are able to deliver innovative circuit protection solutions to our customers. Visit **Littelfuse.com** for our full line of automotive and electronics solutions.



ELECTRONIC FUSES AND BLADE FUSES



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HIGH DC VOLTAGE AND PC BOARD MOUNT FUSES

505 Series Lead-Free 3AB, Fast-Acting



AMPERE RATINGS		
10	16	25
12	20	30

Specifications



A 500 Vac/Vdc rated ceramic fuse with remarkable interrupting rating in a compact 6.3 x 32 mm package, well suited for circuit protection in high energy applications.

Voltage Rating 450 Vac (10 – 12 A)
250 Vdc (10 – 12 A)
500 Vac/dc (16 – 30 A)

Sample Part 0505010.MXP*

Axial Lead 505_XEP Series

Dimensions L 31.75 mm (1.25")
D 6.35 mm (.25")

littelfuse.com/505

*Bulk configurations only

477 Series 5 x 20 mm Slo-Blo® Fuse



AMPERE RATINGS			
.5	2	5	10
.8	3.15	6.3	12
1	4	8	16

Specifications



500 Vac/400 Vdc rated, 5 x 20 mm, time-lag, surge withstand ceramic body fuse.

Voltage Rating 500 Vac

400 Vdc

Sample Part 0477002.MXP*

Axial Lead 477_XEP Series

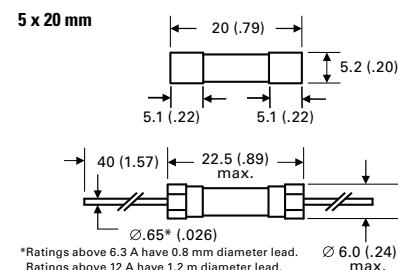
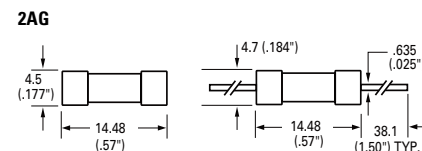
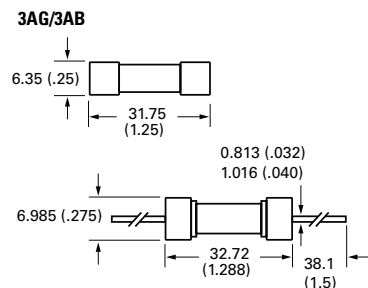
Dimensions L 20 mm (.79")

D 5.2 mm (.20")

littelfuse.com/477

*Bulk configurations only

Dimensions mm (inches)



*Ratings above 6.3 A have 0.8 mm diameter lead. Ratings above 12 A have 1.2 mm diameter lead.

273 Series Very Fast-Acting Microfuse



AMPERE RATINGS					
.002	.031	.125	.400	.750	2
.005	.050	.200	.500	.800	3
.010	.062	.250	.600	1	4
.015	.100	.300	.700	1.5	5

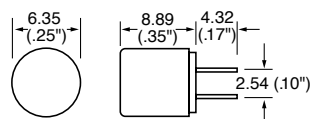
Specifications

Similar to 272 and 278 series, except has transparent cap for visual indication of fuse status. *See web for approvals by part.

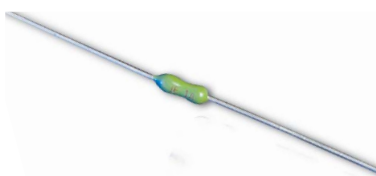
Voltage Rating 125 Vac/dc

Sample Part 0273002.V

littelfuse.com/273



251 Series Fast-Acting Pico® II Fuse



AMPERE RATINGS				
.062	.500	1.25	3	7
.125	.630	1.5	3.5	10
.250	.750	2	4	12
.375	1	2.5	5	15

Specifications

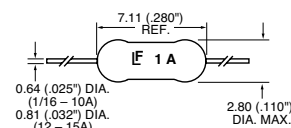
Subminiature fuse for soldered mounting on printed circuit boards. Available on tape and reel for automatic insertion. *See web for approvals by part.

Voltage Ratings 125 Vac/dc 1/16 – 10 A

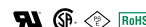
32 Vac/dc 12 – 15 A

Sample Part 0251001.NAT1L

littelfuse.com/251



451 Series NANO²® Very Fast-Acting



Add "L" suffix when ordering RoHS compliant 451 series

AMPERE RATINGS					
0.062	0.25	0.630	1.5	3.15	7
0.1	0.315	0.750	1.6	3.5	8
0.125	0.375	0.800	2	4	10
0.160	0.400	1	2.5	5	12
0.2	0.5	1.25	3	6.3	15

Specifications

The Nano² SMF Fuse is a very small, Wire-in-Air (WIA) square shape surface mount fuse which is very suitable for the secondary side circuit over-current protection applications and is designed for PCB using surface mount technology

*See web for approvals by part.

Voltage Rating 65 – 125 V

Sample Part 0451.125MP

littelfuse.com/451

LEADED AND CARTRIDGE FUSES

312/318 Series 3AG Fast-Acting



AMPERE RATINGS					
.062	.200	.750	1.8	5	15
.100	.250	1	2	6	20
.125	.300	1.25	2.25	7	25
.15	.375	1.5	2.5	8	30
.175	.500	1.6	3	10	35
.187	.600	1.75	4	12	—

Specifications

Designed for fast-acting protection of electronic equipment and appliances. The “standard” fast-acting, glass tube fuse.

Voltage Ratings 250 Vac $\frac{1}{100}$ – 10 A
32 Vac 12 – 35 A

Dimensions L 31.75 mm (1.25")
D 6.35 mm (.25")

Sample Part 0312005.VXP
For fuses with axial leads, request 318 Series.

littelfuse.com/312

313/315 Series 3AG Slo-Blo®



AMPERE RATINGS						
.010	.175	.500	1.25	2.8	7	30
.031	.187	.600	1.5	3	8	—
.040	.200	.700	1.6	3.2	10	—
.062	.250	.750	1.8	4	12	—
.100	.300	.800	2	5	15	—
.125	.375	1	2.25	6.25	20	—
.150	.400	1.2	2.5	6.3	25	—

Specifications

313 and 315 series fuses have time-delay in the overload range, providing superior protection for inductive loads. ID feature available which discolors upon opening.

Voltage Ratings 250 Vac $\frac{1}{100}$ – 8 A
32 Vac 10 – 30 A

Dimensions L 31.75 mm (1.25")
D 6.35 mm (.25")

Sample Part 0313005.VXP
For fuses with axial leads, request 315 Series.
For fuses with ID, add “ID” suffix.

littelfuse.com/313

314/324 Series 3AB Fast-Acting



AMPERE RATINGS				
.375	2	6	12	30
.500	3	7	15	40
.750	4	8	20	—
1	5	10	25	—

Specifications

Similar to 312 series, but ceramic tube permits higher interrupting ratings and voltage ratings: 250 volt ratings to 40 amps.

Voltage Rating 250 Vac $\frac{3}{8}$ – 40 A
125 Vdc $\frac{3}{8}$ – 30 A
150 Vdc 40 A

Dimensions L 31.75 mm (1.25")
D 6.35 mm (.25")

Sample Part 03145005.VXP
For fuses with axial leads, request 324 Series.

littelfuse.com/314

326/325 Series 3AB Slo-Blo®



AMPERE RATINGS					
.010	.187	.600	1.5	4	15
.031	.200	.700	1.6	5	20
.062	.250	.750	2	6.25	25
.100	.300	.800	2.5	7	30
.125	.375	1	2.8	8	—
.150	.400	1.2	3	10	—
.175	.500	1.25	3.2	12	—

Specifications

The 326 series fuse has time-delay similar to the 313 series, but the ceramic body permits higher voltage ratings for the 8 – 30 ampere sizes and faster opening of short-circuits.

Voltage Ratings 250 Vac $\frac{1}{100}$ – 30 A
125 Vdc $\frac{1}{4}$ – 3 A
125 Vdc 12 – 30 A

Dimensions L 31.75 mm (1.25")
D 6.35 mm (.25")

Sample Part 0326.100VXP
For fuses with axial leads, request 325 Series.

littelfuse.com/326

229/230 Series 2AG Slo-Blo®



AMPERE RATINGS			
.250	.750	2	4
.350	.800	2.25	5
.375	1	2.5	6
.500	1.25	3	7
.600	1.5	3.5	—

Specifications

2AG indicating fuses instantly identify themselves upon opening by showing a discoloration of their glass bodies, eliminating guesswork. This unique design offers the same quality performance characteristics as the standard 2AG fuse design.*

Voltage Ratings 250 Vac $\frac{1}{4}$ – 3 $\frac{1}{2}$ A
125 Vac 4 – 7 A

Dimensions 125 Vdc $\frac{1}{4}$ – 7 A
L 14.48 mm (.57")
D 4.5 mm (.177")

Sample Part 02291.25VXP
For fuses with axial leads, request 230 Series.

*Must add “S” suffix when ordering indicating fuse

littelfuse.com/229

225/224 Series 2AG Fast-Acting



AMPERE RATINGS				
.375	1	2.5	4	7
.500	1.5	3	5	8
.750	2	3.5	6	10

Specifications

Fast-acting performance of the 312 series 3AG fuses in less than one-third the space. For protection of electronic equipment and appliances.

Voltage Ratings 250 Vac $\frac{3}{8}$ – 3 $\frac{1}{2}$ A
125 Vac 4 – 10 A

Dimensions 125 Vdc $\frac{3}{8}$ – 3 $\frac{1}{2}$ A
L 14.48 mm (.57")
D 4.5 mm (.177")

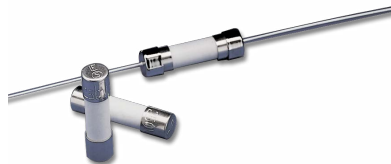
Sample Part 0225003.VXP
For fuses with axial leads, request 224 Series.

littelfuse.com/225

Note: All fuses on this page are available in packaged and bulk configurations

5 x 20 mm IEC LEADED AND CARTRIDGE FUSES

215 Series 5 x 20 mm IEC Slo-Blo®



AMPERE RATINGS						
.125	.315	.800	2	5	12	
.160	.400	1	2.5	6.3	15	
.200	.500	1.25	3.15	8	16	
.250	.630	1.6	4	10	20	

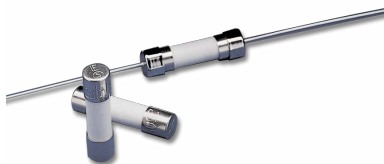
Specifications

Time-delay protection of electronic equipment and appliances when fuses to International Standards are required. Replacement fuse for foreign equipment.

Voltage Rating 250 Vac
Dimensions L 20 mm (.79")
 D 5.2 mm (.20")

Sample Part 0215005.VXP
 For fuses with axial leads, request 215_XEP series.
littelfuse.com/215

216 Series 5 x 20 mm IEC Fast-Acting



AMPERE RATINGS						
.050	.125	.315	1	2.5	6.3	16
.063	.160	.500	1.25	3.15	8	—
.080	.200	.630	1.6	4	10	—
.100	.250	.800	2	5	12.5	—

Specifications

Fast-acting protection of electronic equipment and appliances when fuses to International Standards are required. Replacement fuse for foreign equipment.

Voltage Rating 250 Vac
 60 Vdc (1.25-3.15, 4-6.3 A only)
Dimensions L 20 mm (.79")
 D 5.2 mm (.20")

Sample Part 0216005.VXP
 For fuses with axial leads, request 216_XEP series.
littelfuse.com/216

217 Series 5 x 20 mm IEC Fast-Acting



AMPERE RATINGS						
.032	.100	.250	.630	1.6	4	10
.050	.125	.315	.800	2	5	15
.063	.160	.400	1	2.5	6.3	—
.080	.200	.500	1.25	3.15	8	—

Specifications

Fast-acting protection of electronic equipment and appliances when fuses to International Standards are required. Replacement fuse for foreign equipment.

Voltage Rating 250 Vac
 75Vdc (2-3.15 A only)
 60 Vdc (6.3, 2-.5 A only)
Dimensions L 20 mm (.79")
 D 5.2 mm (.20")

Sample Part 0217005.VXP
 For fuses with axial leads, request 217_XEP series.
littelfuse.com/217

218 Series 5 x 20 mm IEC Slo-Blo®



AMPERE RATINGS						
.032	.100	.315	1	3.15	10	
.040	.125	.400	1.25	4	12.5	
.050	.160	.500	1.6	5	15	
.063	.200	.630	2	6.3	16	
.080	.250	.800	2.5	8	—	

Specifications

Time-delay protection of electronic equipment and appliances when fuses to International Standards are required. Replacement fuse for foreign equipment.

Voltage Rating 250 Vac
Dimensions L 20 mm (.79")
 D 5.2 mm (.20")

Sample Part 0218005.VXP
 For fuses with axial leads, request 218_XEP series.
littelfuse.com/218

235 Series 5 x 20 mm UL/CSA Fast-Acting



AMPERE RATINGS						
.100	.300	.700	1.60	3.5	7	
.125	.400	.800	2	4	—	
.200	.500	1	2.5	5	—	
.250	.600	1.25	3	6	—	

Specifications

5 x 20 mm fuses designed to UL and CSA standards. Fast-acting protection of electronic equipment and appliances.

Voltage Ratings 250 Vac 1/10 – 3 1/2 A
 125 Vac 4 – 7 A
Dimensions L 20 mm (.79")
 D 5.2 mm (.20")

Sample Part 0235005.VXP
 For fuses with axial leads, request 235_XEP series.
littelfuse.com/235

239 Series 5 x 20 mm UL/CSA Slo-Blo®



AMPERE RATINGS						
.080	.200	.500	.800	2	3.20	7
.100	.250	.600	1	2.5	3.50	—
.125	.300	.700	1.25	3	4	—
.150	.400	.750	1.60	3.15	5	—

Specifications

5 x 20 mm fuses designed to UL and CSA standards. Time-delay protection of electronic equipment and appliances.

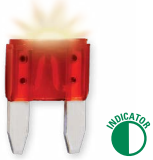
Voltage Ratings 250 Vac 2/10 – 3 1/2 A
 125 Vac 4 – 7 A
Dimensions L 20 mm (.79")
 D 5.2 mm (.20")

Sample Part 0239005.VXP
 For fuses with axial leads, request 239_XEP series.
littelfuse.com/239

Note: All fuses on this page are available in packaged and bulk configurations

BLADE FUSES

MINI® Smart Glow



Specifications

Smart Glow fuses are innovative automotive style fuses (ATO, MINI, and MAXI) that feature an indicator light that glows when the fuse is blown, saving time to troubleshoot an open circuit.

Voltage Rating 14 Vdc
Sample Part 0MIN010.VPGLO

MINI® Fast-Acting



Specifications

The MINI® Fuse, with its miniature design patented by Littelfuse, meets the need for more circuits to be protected while utilizing less space.

Voltage Rating 32 Vdc
Sample Part 0MIN020.V
littelfuse.com/mini

Fuses Rated 58 V Low Profile MINI®

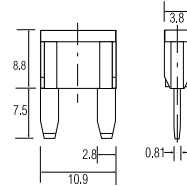


Specifications

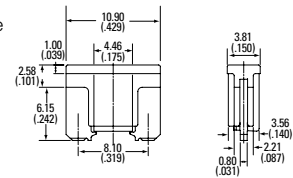
The low profile MINI has similar performance as the standard mini fuse. The lower overall height allows for more space and weight savings.

Voltage Rating 58 Vdc
Sample Part LMIN010.V
littelfuse.com/lmin

MINI dimensions in mm



Low Profile MINI dimensions in mm (inches)



ATO® Smart Glow



Specifications

Smart Glow fuses are innovative automotive style fuses (ATO, MINI, and MAXI) that feature indicator light that glows when the fuse is blown, saving time to troubleshoot an open circuit.

Voltage Rating 14 Vdc
Sample Part 0ATO010.VPGLO

ATO® Fast-Acting

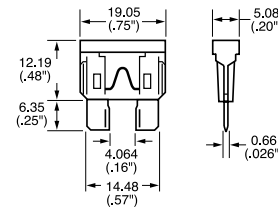


Specifications

The ATO® Fuse was designed and patented by Littelfuse in 1976 and set the standard for automotive circuit protection. It features industry standard color coding to indicate amperage rating.

Voltage Rating 32 Vac/dc
Sample Part 0ATO020.V
littelfuse.com/ato

ATO dimensions in mm (inches)

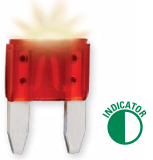


ATO® / MINI® Color Key

CURRENT RATING	HOUSING COLOR
1 A	Black
2 A	Grey
3 A	Purple
4 A	Pink
5 A	Brown
7.5 A	Dark Brown
10 A	Red
15 A	Blue
20 A	Yellow
25 A	White
30 A	Green
40 A	Orange

Note: MINI not available in 1 A or 40 A.

MAXI™ Smart Glow



Specifications

Smart Glow fuses are innovative automotive style fuses (ATO, MINI, and MAXI) that feature an indicator light that glows when the fuse is blown, saving time to troubleshoot an open circuit.

Voltage Rating 14 Vdc
Sample Part 0MAX030.XPGLO

MAXI™ Slo-Blo

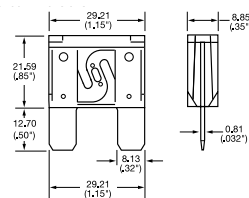


Specifications

Designed and patented by Littelfuse, the MAXI™ Fuse is ideal for motor powered applications which have large inrush currents.

Voltage Rating 32 Vdc
Sample Part 0MAX030.X
littelfuse.com/maxi

MAXI dimensions in mm (inches)



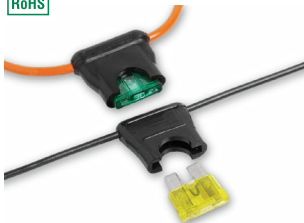
MAXI™ Color Key

CURRENT RATING	HOUSING COLOR
20 A	Yellow
25 A	Grey
30 A	Green
35 A	Brown
40 A	Orange
50 A	Red
60 A	Blue
70 A	Brown
80 A	White

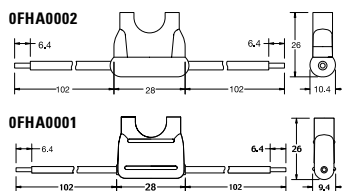
BLADE FUSES

FHA Blade Fuse Holders—In-Line Fuse Holder for ATO® Style Blade Fuse

RoHS



Dimensions in mm



Used with ATO Fuse 1 to 20 A or 25 A and 30 A. Supplied with two 4" (102mm) wire leads.

littelfuse.com/fha

PART NUMBER	DESCRIPTION	FUSE RATING
OFHA0001_	16AWG/1.3mm ² STRANDED BLACK WIRE	20 A
OFHA0002_	12AWG/3.3mm ² STRANDED ORANGE WIRE	30 A

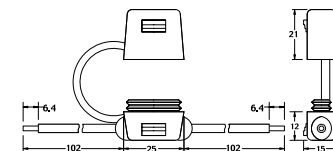
Wire length, color and diameter can be customized upon request.

FHAC Blade Fuse Holders—In-Line Splash-Waterproof Fuse Holder for ATO® Style Blade Fuse

RoHS



Dimensions in mm



Used with ATO Fuse 1 to 20 A or 25 A and 30 A. Supplied with two 4" (102mm) wire leads. Includes protective cover for harsh environments.

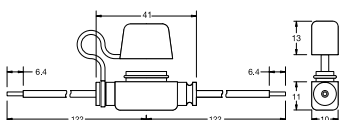
littelfuse.com/fha

PART NUMBER	DESCRIPTION	FUSE RATING
FHAC0001_	16AWG/1.3mm ² STRANDED BLACK WIRE	20 A
FHAC0002_	12AWG/3.3mm ² STRANDED ORANGE WIRE	30 A

Wire length, color and diameter can be customized upon request.

FHM Blade Fuse Holders—In-Line Splash-Waterproof Fuse Holder for MINI® Style Blade Fuse

RoHS



Used with MINI Fuse 1 to 20 A or 25 A and 30 A. Supplied with two 4.78" (122 mm) wire leads. Includes protective cover for harsh environment.

littelfuse.com/fhm

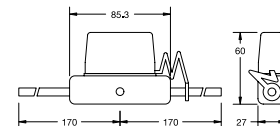
Wire length, color and diameter can be customized upon request.

PART NUMBER	DESCRIPTION	FUSE RATING
OFHMO001_	14AWG/2.1mm ² STRANDED BLACK WIRE	20 A
OFHMO002_	12AWG/3.3mm ² STRANDED ORANGE WIRE	30 A

MAH Blade Fuse Holders—In-Line Fuse Holder for MAXI™ Style Blade Fuse



Dimensions in mm



Supplied with two 6", 6-gauge wire leads for up to 60 A MAXI Fuse applications, this In-Line Fuse holder also provides a protective cover for harsh under-the-hood environments. Mounting hole permits easy bulkhead installation.

littelfuse.com/mah

PART NUMBER	DESCRIPTION	FUSE RATING
OMAH0001Z	WIRE COLOR BLACK	60 A

JCASE® Cartridge Fuse Rated 32 V

RoHS



Specifications

The JCASE is a cartridge style fuse with female terminal design. JCASE provides both increased time delay and low voltage drop to protect high current circuits. JCASE has the ability to handle in-rush currents. The JCASE was designed and patented by Littelfuse.

littelfuse.com/jcase

Low Profile JCASE® Fuse Rated 58 V

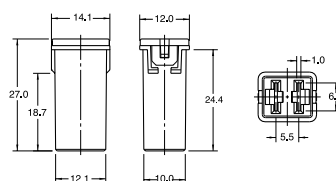
RoHS



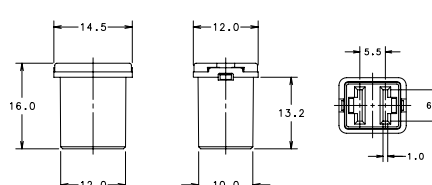
Specifications

The Low Profile JCASE fuse has similar performance characteristics as the standard JCASE fuse. The lower overall height reduction allows for more space and weight savings and also allows for a shorter male blade terminal, saving additional weight and material savings in fuse box designs.

JCASE® 32 V Dimensions in mm



Low Profile JCASE® 58 V Dimensions in mm



JCASE® Color Key

CURRENT RATING	HOUSING COLOR
20 A	Blue
25 A	White
30 A	Pink
40 A	Green
50 A	Red
60 A	Yellow