

Section Overview

Whether you are protecting solar equipment or finding a replacement fuse for an aging HVAC unit, Littelfuse carries the breadth of fuses to meet your needs. Our “special purpose” fuse section includes application-specific products to meet all of your application needs.



SPECIAL PURPOSE FUSES

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Solar Circuit Protection

Littelfuse engineering is constantly developing new products to meet the needs of the photovoltaic industry. For the latest information on the growing solar product portfolio, visit: Littelfuse.com/solar

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SPXV SERIES IN-LINE SOLAR FUSE

1500 V dc • 1–60 A

REACH



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Solar Fuses

Description

The Littelfuse SPXV solar string fuse has been specifically designed for the protection of photovoltaic (PV) systems.

It is available in multiple ampere ratings to match various requirements in a range of applications.

Features/Benefits

- Offers higher amperage protection in less space for increased design flexibility
- Full range, fast-acting fuse helps eliminate common low-overload faults
- Up to 50,000 A interrupting rating

Applications

- Inverters
- Combiner boxes

Recommended Accessories

1–32 Amperes

Fuse Holder: LFPXV0001

Fuse Clips: 125004/125005

35–60 Amperes

Fuse Holder: LFXV15060-BC

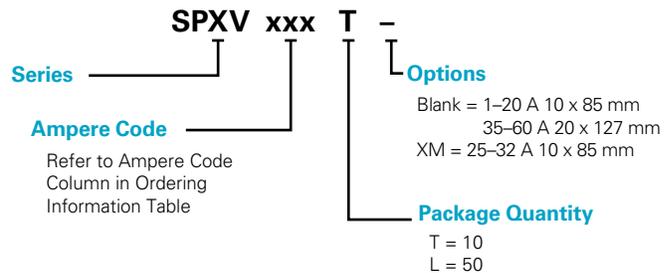
Web Resources

Download technical resources at: Littelfuse.com/spxv

Specifications

Voltage Rating	1500 V dc
Amperage Rating	1, 2, 2.25, 2.5, 3, 3.5, 4, 4.5, 5, 6, 8, 10, 12, 15, 16, 20, 25, 30, 32, 35, 40, 45, 50, 55, 60 A
Interrupting Rating	SPXV 1 A–20 A: 30 kA (50 kA Self-Certified) SPXV 35 A–60 A: 50 kA SPXV-M 25 A–32 A: 50 kA
Time Constant	≤ 1ms
Material	Body: melamine Caps: copper alloy (nickel plated)
Approvals	UL 248-19 Listed (File: E339112)
Applicable Standards	UL 248-1, 248-19 IEC 60269-6
Environmental	RoHS Compliant REACH
Country of Origin	Mexico

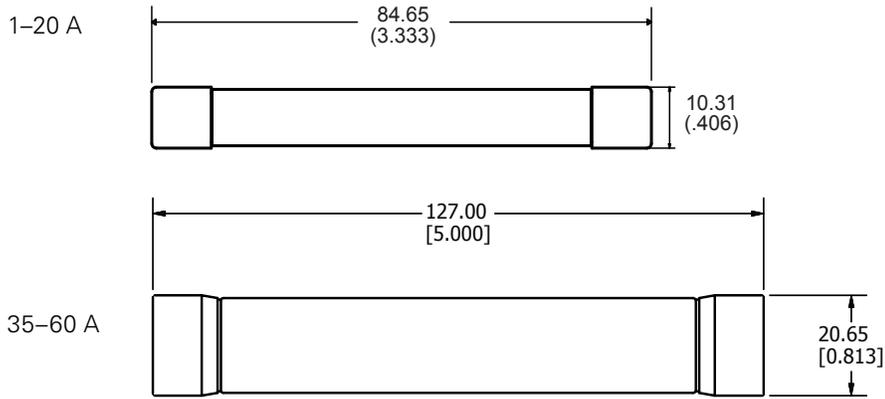
Part Numbering System



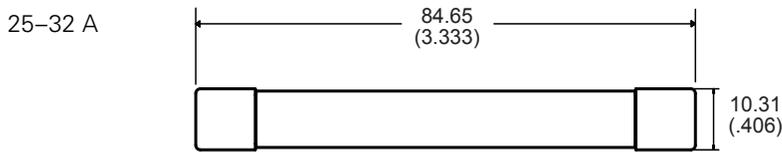
SERIES	AMPERAGE	PACKAGE QUANTITY	CATALOG NUMBER	ORDERING NUMBER
SPXV	6	10	SPXV006	SPXV006.T
SPXV	20	50	SPXV020	SPXV020.L
SPXV	32	10	SPXV032-M	SPXV032.TXM
SPXV	60	10	SPXV060	SPXV060.T

SPXV SERIES IN-LINE SOLAR FUSE

SPXV Dimensions mm (in)



SPXV-M Dimensions mm (in)



SPXI SERIES IN-LINE SOLAR FUSES

1500 V dc • 1–60 A



Description

The Littelfuse SPXI solar fuse is specifically designed for the protection of photovoltaic (PV) systems. It integrates into an in-line assembly within a wire harness and can be electrically insulated by either overmolding or using heat-shrink.

Littelfuse offers multiple ampere ratings to match specific requirements in a variety of applications.

Features/Benefits

- Offers higher ampere protection in less space for increased design flexibility
- One-piece cap design, without joints, offers easier wire crimping and more streamlined molding
- No fuse holder required helps save space, time, and money
- 50,000 A interrupting rating

Applications

- Photovoltaic high-capacity homerun, trunk harness, and wire harness

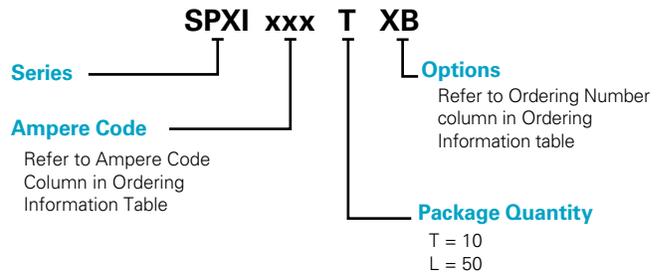
Recommended Crimping Tool

10-12 AWG: T&B Sta-Kon ERG4002
8 AWG: T&B Sta-Kon ERG4
6 AWG: Burndy MRC840AL

Specifications

Voltage Rating	1500 V dc
Amperage Rating	1, 2, 2.25, 2.5, 3.5, 4, 4.5, 5, 6, 8, 10, 12, 15, 16, 20, 25, 30, 32, 35, 40, 45, 50, 55, 60 A
Interrupting Ratings	SPXI 1-30 A and SPXI-B 1-20 A: 30 kA SPXI 35-50 A and SPXI-B 35-60 A: 50 kA SPXI-M and SPXI-BM 25-32A: 50 kA
Time Constant	≤ 1ms
Material	Body: melamine Caps: copper alloy (nickel plated)
Approvals	UL Recognized (File: E339112)
Applicable Standards	UL 248-1, 248-19 IEC 60269-6 (electrically only)
Environmental	RoHS Compliant REACH
Country of Origin	Mexico
US Patent	9,564,281

Part Numbering System

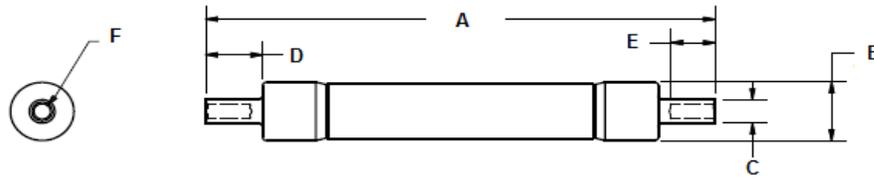


Web Resources

Download additional technical information and view the complete solar portfolio: Littelfuse.com/spxi

SPXI SERIES IN-LINE SOLAR FUSES

Dimensions



SERIES	AMPS	DIMENSIONS IN MM (INCHES)						WIRE RANGE
		A	B	C	D	E	F	
SPXI	2.5–4	81.41 (3.205)	10.31 (0.406)	5.59 (0.22)	12.26 (0.483)	9.53 (0.375)	3.56 (0.14)	10-12 AWG (6-4 mm ²)
	4.5–20	110.06 (4.333)	10.31 (0.406)	5.59 (0.22)	12.26 (0.483)	9.53 (0.375)	3.56 (0.014)	10-12 AWG (6-4 mm ²)
	25–30	110.06 (4.333)	13.72 (0.54)	5.59 (0.22)	12.26 (0.483)	9.53 (0.375)	3.56 (0.014)	10-12 AWG (6-4 mm ²)
	35–50	158.04 (6.222)	20.65 (0.813)	6.7 (0.264)	14.25 (0.561)	10.25 (0.404)	4.7 (0.185)	8 AWG (10mm ²)
SPXI-B	2.5–4	85.4 (3.362)	10.31 (0.406)	6.7 (0.264)	14.25 (0.561)	10.25 (0.404)	4.7 (0.185)	8 AWG (10mm ²)
	4.5–20	114.05 (4.49)	10.31 (0.406)	6.7 (0.264)	14.25 (0.561)	10.25 (0.404)	4.7 (0.185)	8 AWG (10mm ²)
	35–60	163.58 (6.44)	20.65 (0.813)	8.5 (0.335)	17.02 (0.67)	13.72 (0.54)	5.5 (0.217)	6 AWG
SPXI-M	25–32	110.06 (4.333)	10.31 (0.406)	5.59 (0.22)	12.26 (0.483)	9.53 (0.375)	3.56 (0.014)	10-12 AWG (6-4 mm ²)
SPXI-BM	25–32	114.05 (4.49)	10.31 (0.406)	6.7 (0.264)	14.25 (0.561)	10.25 (0.404)	4.7 (0.185)	8 AWG (10mm ²)

5 Solar Fuses

SPNH SERIES SOLAR FUSE

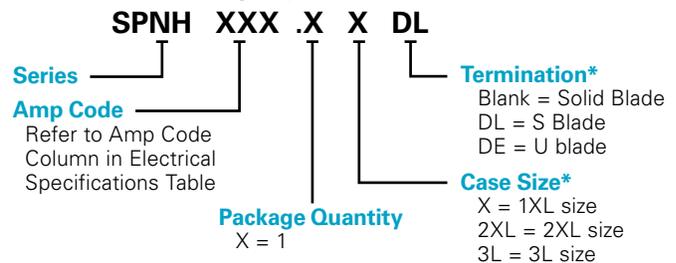
1500 Vdc • 50-400 A • NH Style



Specifications

Voltage Rating	1500 Vdc
Amperage Rating	50, 63, 80, 100, 125, 160, 200, 250, 315, 350, 400
Interrupting Rating	15kA 30kA self-certified
Time Constant	≤ 2ms
Material	Body: Ceramic End Bells: Copper Alloy
Approvals	UL 248-19 Listed (File: E339112, Vol. 4) (50-200A) 250-400A pending IEC 60269-6
Environmental	RoHS Compliant

Part Numbering System



SERIES	AMP	PACKAGE QUANTITY	CATALOG NUMBER	ORDERING NUMBER
SPNH	50	1	SPNH050	SPNH050.X
SPNH	200	1	SPNH200	SPNH200.X

*Solid blade option for 1XL case size does not require a case or termination designator for the part number.

Recommended Accessories

1XL Case Size

Fuse Holder: LFNH152001CST

Fuse Terminal Covers: LFNH15200FBC

2XL Case Size

Fuse Holder: LFNH154001CST

Fuse Terminal Covers: LFNH15400FBC

3L Case Size

Fuse Holder: LFNH156301CST

Fuse Terminal Covers: LFNH15630FBC



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Solar Fuses

Description

The SPNH series has been designed to meet the emerging circuit protection needs for 1500 volt photovoltaic systems. These fuses provide full range protection for all potential overcurrent conditions that exist in PV applications. Suitable for PV inverter protection and array combiner applications.

Features/Benefits

- Meets UL and IEC photovoltaic standards
- Compact NH XL Sizes
- Low Watt Loss Design
- 1500Vdc rating for emerging market needs
- Designed to protect against a full range of overcurrents

Applications

- Inverters
- Re-combiner boxes
- Array/Re-combiner application
- PV Inverter DC input protection

Web Resources

Download technical documents: Littelfuse.com/spnh



Look for this logo to indicate products that are used in solar applications. Visit our website Littelfuse.com/solar for the latest updates on approvals, certifications, and new products.

SPFI SERIES IN-LINE SOLAR FUSE

1000 Vdc • 2-30 A



Specifications

Voltage Rating	1000 Vdc
Amperage Rating	2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30 A
Interrupting Rating	20 kA
Time Constant	≤ 1ms
Material	Body: Melamine Caps: Copper Alloy (Nickel Plated)
Approvals	UL 2579 Recognized (File: E339112)
Environmental	RoHS Compliant REACH
Country of Origin	Mexico
US Patent	9,564,281

Description

The Littelfuse SPFI solar fuse is designed to integrate into an in-line assembly within a wire harness. The fuse provides photovoltaic (PV) protection that meets UL 2579 for photovoltaic applications. The SPFI can be electrically insulated by either overmolding or using approved heat-shrink.

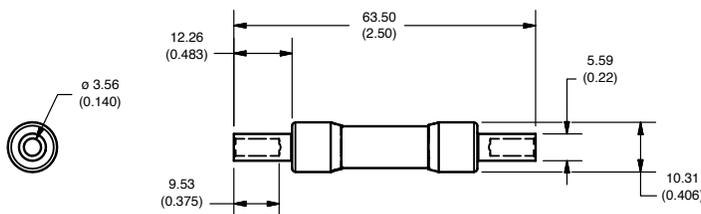
Features/Benefits

- UL 2579 Recognized
- Meets IEC 60269-6 electrical performance requirements
- 20,000 A Interrupting Rating
- No fuse holder required

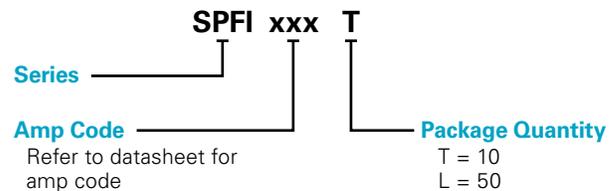
Applications

- Photovoltaic wire harness

Dimensions mm (in)



Part Numbering System



SERIES	AMP	PACKAGE QUANTITY	CATALOG NUMBER	ORDERING NUMBER
SPFI	2	10	SPFI002	SPFI002.T
SPFI	3.5	10	SPFI03.5	SPFI03.5T
SPFI	20	50	SPFI020	SPFI020.L

Web Resources

Downloadable CAD drawings and other technical information: Littelfuse.com/spfi

Recommended Crimping Tool

T&B Sta-Kon ERG4002

SPF SERIES SOLAR FUSES

1000 Vdc • 1-30 A



Description

The SPF Solar Protection Fuse series has been specifically designed for the protection of photovoltaic (PV) systems. This family of Midget style fuses (10 x 38 mm) can safely protect PV modules and conductors from reverse-overcurrent conditions.

As PV systems have grown in size, so have the corresponding voltage requirements. This increase in system voltage has typically been intended to minimize power loss associated with long conductor runs. Standard circuit protection devices are not designed to completely protect photovoltaic panels. However, the SPF series is UL Listed to safely interrupt faulted circuits up to this demanding voltage level.

Littelfuse offers 14 ampere ratings to match specific requirements in a variety of applications.

Features/Benefits

- Meets UL and IEC photovoltaic standards
- UL 248-19 Listed 1000 Vdc maximum
- 1-30 A ratings available
- 20,000 A Interrupting Rating - 1A - 20A
- 50,000 A Interrupting Rating - 25A - 30A
- Both PCB mount and dead-front holder options available

Applications

- Inverters
- Combiner boxes
- Battery charge controllers

Recommended Fuse Holders

LPHV 1000 Vdc POWR-Safe Series

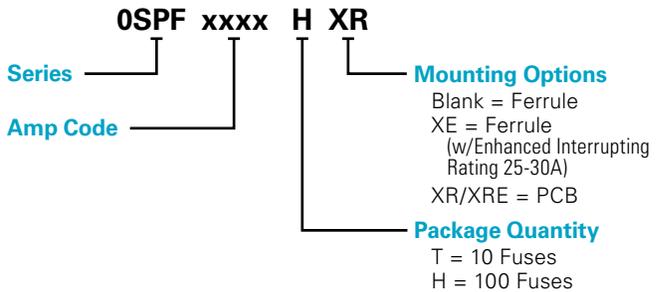
Web Resources

Download technical documents: Littelfuse.com/spf

Specifications

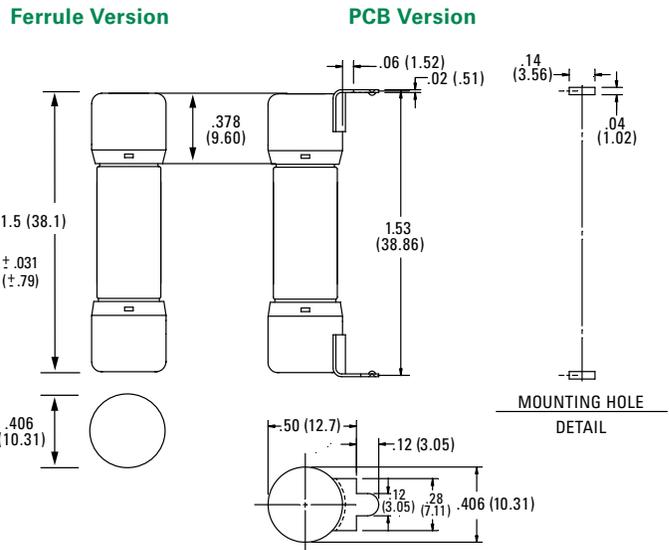
Voltage Rating	1000 VDC
Amperage Rating	1, 2, 3, 3.5, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30
Max. Interrupting Rating	20 kA - 1A - 20A 50 kA - 25A - 30A
Time Constant	≤ 2ms
Material	Body: Melamine Caps: Copper Alloy
Approvals	UL 248-19 Listed (File: E339112) IEC 60269-6 (1-30 A) CSA Certified (File: 029862_0_000)
Environmental	RoHS Compliant
Country of Origin	Mexico

Part Numbering System



SERIES	AMP	PACKAGE QUANTITY	MOUNTING METHOD	CATALOG NUMBER	ORDERING NUMBER
SPF	2	10	FERRULE	SPF002	OSPF002.T
SPF	3.5	10	FERRULE	SPF03.5	OSPF03.5T
SPF	30	100	PCB TABS	SPF030R	OSPF030.HXR

Dimensions Inches (mm)



Look for this logo to indicate products that are used in solar applications. Visit our website Littelfuse.com/solar for the latest updates on approvals, certifications, and new products.

SPFJ SERIES SOLAR FUSES

1000 Vdc • 70-450 A



Description

The SPFJ series is the smallest 1000 Vdc 70-450 A photovoltaic fuse available in the market. The SPFJ series is manufactured in Class J case sizes that allows for both fuse holder and busbar mounting configuration. The SPFJ meets both UL and IEC requirements.

Features/Benefits

- Meets UL and IEC photovoltaic standards
- Small footprint reduces panel size
- Flexibility of fuse holder or busbar mounting
- Higher amperage solar fuses in standard sizes
- UL Listed branch and feeder circuit rated
- Class J case sizes for the 125-450 A ratings

Applications

- Inverters
- Re-combiner boxes

Recommended Fuse Holder

LFJ1000 Solar Series

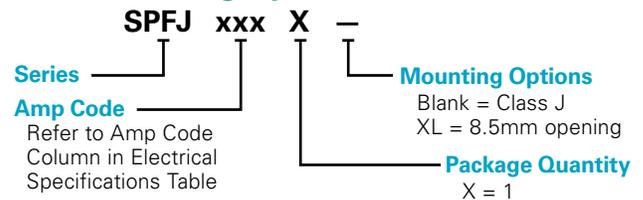
Web Resources

Download technical documents: Littelfuse.com/spfj

Specifications

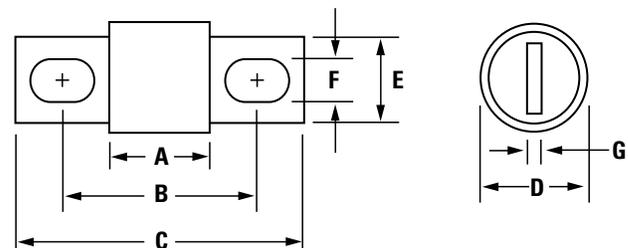
Voltage Rating	1000 Vdc 600 Vac (125-450 A)
Amperage Rating	70, 80, 90, 100, 125, 160, 200, 250, 300, 350, 400, 450
Interrupting Rating	AC: 200 kAIC (125-450 A) DC: 70-200 A: 20 kAIC 250-400 A: 10 kAIC 450 A: 20 kAIC
Time Constant	≤ 1ms
Material	Body: Melamine End Bells: Copper Alloy
Approvals	UL 248-19 Listed (File: E339112) UL 248-8, Class J (125-450 A) cULus (125-450 A) IEC 60269-6 (125-450 A)
Environmental	RoHS Compliant
Country of Origin	Mexico

Part Numbering System



SERIES	AMP	PACKAGE QUANTITY	MOUNTING METHOD	CATALOG NUMBER	ORDERING NUMBER
SPFJ	70	1	CLASS J	SPFJ070	SPFJ070.X
SPFJ	200	1	LARGE	SPFJ200	SPFJ200.XXL

Dimensions Inches (mm)



AMPERAGE	DIMENSIONS IN INCHES (MM)						
	A	B	C	D	E	F	G
70-100	3.02 (76.5)	4.38 (111.3)	5.75 (146.1)	1.5 (38.1)	1.125 (28.3)	.335 (8.5)	.189 (4.8)
125-200	3.02 (76.5)	4.38 (111.3)	5.75 (146.1)	1.5 (38.1)	1.125 (28.3)	.281 (7.1)*	.189 (4.8)
250-400	3.37 (85.7)	5.25 (133.4)	7.125 (181.0)	2.0 (50.8)	1.63 (41.3)	.406 (10.3)	.252 (6.4)
450	3.75 (95.3)	5.98 (152.0)	8.0 (203.2)	2.5 (63.5)	2.0 (50.8)	.531 (13.5)	.374 (9.5)

* SPFJ L option = 8.5 mm (UL 248-19 approval only)



Look for this logo to indicate products that are used in solar applications. Visit our website Littelfuse.com/solar for the latest updates on approvals, certifications, and new products.

FORK-LIFT STUD-MOUNTED FUSES

32/48/80 Vdc • Fast-Acting and Very Fast-Acting • 35-800 A



CNN_E, CNN & CNL Limiter Fuses

Description

CNN_E fuses are rated for applications up to 80 Vdc. As fork lift trucks voltages increase, circuit protection needs to be rated higher than the standard CNN products to handle the increased voltage. The CNN_E is considered very fast-acting for quicker reaction time.

Specifications

Voltage Ratings	CNN_E: 80 Vdc / 125 Vac CNN: 48 Vdc / 125 Vac CNL: 32 Vdc / 32 Vac
Ampere Ratings	10 – 800 A*
Max. Interrupting Rating	2,500 A
Approval	UL Recognized (File: E71611)
Environmental	RoHS Compliant, Lead (Pb) Free
Country of Origin	Mexico (CNN_E only)

*See ordering information table for available amperages by series

Ordering Information

AMPERE RATINGS CNN_E & CNN					
10*	60	125	225	325	600
35	80	150	250	350	700
40	90	175	275	400	800
50	100	200	300	500	—

*CNN Series only

AMPERE RATINGS CNL (32 Vdc)				
35	80	150	250	350
40	100	175	275	400
50	125	200	300	500
60	130	225	325	—

SERIES	TYPE	VOLT DC	AMP	CATALOG NUMBER	ORDERING NUMBER
CNN_E	VERY-FAST-ACTING	80	200	CNN200E	OCNN200E.V
CNN	VERY FAST-ACTING	48	125	CNN125	OCNN125.V
CNL	FAST-ACTING	32	50	CNL050	OCNL050.V

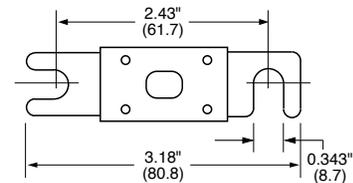
Recommended Fuse Holders

LFFB0003Z 123

Web Resources

Littelfuse.com/ForkLift

Dimensions



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Special Purpose Fuses



HAZGARD™ Forklift Fuses

Description

HAZGARD fuses are designed to provide overcurrent protection for low voltage equipment used in hazardous operations. It is UL 248 recognized and has been evaluated for the use in UL 583 type EE and ES applications. Unique design does not require an additional enclosure as is needed with a standard forklift fuse, saving assembly time and costs.

Ordering Information

SERIES	AMPERAGE	CATALOG NUMBER	ORDERING NUMBER
581	200	581200	0581200.X

Applications

Lift trucks, scissor lifts, pallet movers, and other low voltage battery operated equipment used to move hazardous materials.

Features/Benefits

- Evaluated for use in UL 583 hazardous applications
- Easily upgrade Type E and ES equipment to Type EE
- Does not require an external enclosure

Specifications

Voltage Ratings	48 Vac/dc
Interrupting Rating	2,500 A
Ampere Rating	35 – 800 A
Approval	UL Recognized (File: E71611)
Torque	90 in-lb
Fuse Holder	LFFB003
Environmental	RoHS Compliant
Country of Origin	Mexico

AMPERE RATINGS			
35	100	250	500
50	125	300	750*
60	150	400	800*
90	200	425	—

*Contact factory for availability

PLUG FUSES AND BOLT-DOWN FUSES

125 Vac • 2-30 A



Edison-base plug fuses

Description

Littelfuse plug fuses provide overcurrent protection to general purpose circuits and small motor loads. Edison-base plug fuses (TOO and TLO series) feature metal threads similar to incandescent lamp bases.

Type S plug fuses (SOO and SLO series) utilize a nonmetallic threaded base and must be used with Type S adapters (SAO series).

The National Electrical Code® permits Edison base plug fuses to be used for replacement purposes only. Type S fuses and adapters prevent shunting open fuses and over-fusing.

Specifications

Voltage Rating	125 Vac
Interrupting Rating	10 kA rms symmetrical
Approvals	UL Listed 248-11

TOO fuses are dual-element time-delay Edison-base fuses designed for motor and motor branch circuit protection; also suitable for all general purpose circuits.

TOO Fuses Sample Part # 0T00020.Z

AMPERE RATINGS			
2	6 1/4	12	25
4	8	15	30
5	10	20	—

TLO fuses are medium time-delay Edison-base fuses designed for general purpose branch circuit protection.

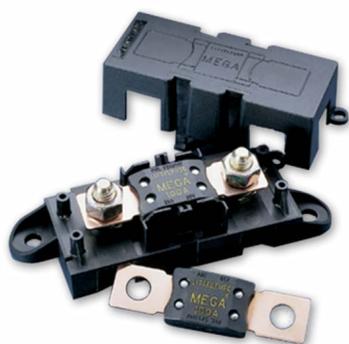
TLO Fuses Sample Part # 0TL0020.Z

AMPERE RATINGS			
15	20	25	30

Web Resources

Fine more information: Littelfuse.com/plug

32 Vac/dc • 100-300 A



MEGA® SLO-BLO® bolt-on fuse

Description

The MEGA Fuse is designed for the protection of high current applications. Designed and patented by Littelfuse, it is ideal for battery and alternator protection and other heavy gauge cable applications.

Specifications

Voltage Rating	32 Vac/dc
Interrupting Rating	2000 A @ 32 Vdc

Ordering Information

CATALOG NUMBER	ORDERING NUMBER	AMPERAGE RATING	VOLTAGE RATING	COLOR CODE
MEG100	0MEG100.X	100	32	Yellow
MEG125	0MEG125.X	125	32	Green
MEG150	0MEG150.X	150	32	Blue
MEG175	0MEG175.X	175	32	White
MEG200	0MEG200.X	200	32	Light Blue
MEG225	0MEG225.X	225	32	Brown
MEG250	0MEG250.X	250	32	Pink
MEG300	0MEG300.X	300	32	Grey

Recommended Fuse Holders

Part Number - 298900, see website: Littelfuse.com/mega

Web Resources

Find more information: Littelfuse.com/mega

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Special Purpose Fuses

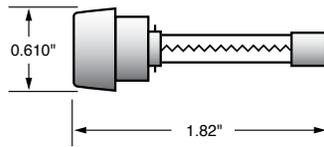
LGR / LMF IN-LINE FUSES & LHR FUSE HOLDER



LGR Fuses

Fast-Acting • 300 Vac

Used as in-line protection for fluorescent fixtures, this fast-acting fuse is ideal for increasing the safety and reliability of lighting fixtures.



Specifications

Voltage Rating 300 Vac
Interrupting Rating 10 kA
Approvals Standard 248-14
 UL Listed (File: E10480)
 CSA Certified (File: LR29862)

Ordering Information

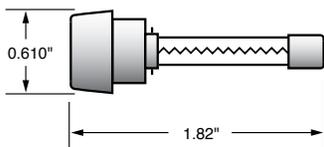
AMPERE RATINGS					
1/2	1 6/10	3	6	9	15
1	2	4	7	10	—
1 1/2	2 1/2	5	8	12	—

SERIES	AMPERAGE	CATALOG NUMBER	ORDERING NUMBER
LGR	5	LGR005	OLGR005.V

LMF Fuses

Time-Delay • 300 Vac

Perfect for use in lighting systems, this 300 Vac time-delay fuse is designed to handle ballast transformer in-rush currents.



Specifications

Voltage Rating 300 Vac
Interrupting Rating 10 kA
Approvals Standard 248-14
 UL Listed (File: E10480)
 CSA Certified (File: LR29862)

Ordering Information

AMPERE RATINGS					
3/10	8/10	1 6/10	2 8/10	4	7
1/2	1	2	3	5	8
6/10	1 1/4	2 1/2	3 2/10	6 1/4	10

SERIES	AMPERAGE	CATALOG NUMBER	ORDERING NUMBER
LMF	5	LMF005	OLMF005.V

LHR Fuse Holder

Used as in-line protection for fluorescent fixtures, the Littelfuse LGR and LMF series fuses and LHR holder offer increased safety and reliability to lighting systems.

By individually fusing fixtures, electrical problems are isolated from the rest of the circuit. The added benefits of this is the ability to quickly identify the problem fixture and reduce the repair time.



Fuse holders are rated up to 10 amperes at 300 volts and are equipped with 7" 18 AWG leads. Order part number LHR000 for two leads, and part number LHR001 for one lead; with the other terminal used for insertion of 18 AWG ballast lead.

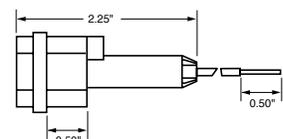
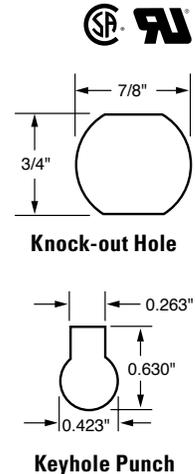
Specifications

Voltage Rating 300 Vac
Ampere Rating LHR000 10 A
 LHR001 10 A
Approvals UL Recognized
 CSA Certified (File: 73160)
Flammability Rating UL94 V-0
Example part number LHR001
Ordering number OLHR001T

Mounting Information

LHR001/LHR000 will fit keyhole punch or 0.875" knock-out hole. Anti-rotation feature is provided when used with keyhole punch.

A "U-shaped" clip is available for panel mounting (packaged 10 clips per bag): Order part number LHROCA.



LFCL • CABLE LIMITERS

250/600 VAC



TYPE	TERMINATION	VOLTAGE RATING	COPPER CABLE SIZE	ORDERING NUMBER
1	 CABLE TO CABLE	600 VAC	4 AWG	LFCL0004ZC1
		600 VAC	3 AWG	LFCL0003ZC1
		600 VAC	2 AWG	LFCL0002ZC1
		600 VAC	1 AWG	LFCL0001ZC1
		600 VAC	1/0 AWG	LFCL01/0ZC1
		600 VAC	2/0 AWG	LFCL02/0ZC1
		600 VAC	3/0 AWG	LFCL03/0ZC1
		600 VAC	4/0 AWG	LFCL04/0ZC1
		600 VAC	250 kcmil	LFCL0250ZC1
		600 VAC	350 kcmil	LFCL0350ZC1
		600 VAC	500 kcmil	LFCL0500ZC1
		600 VAC	600 kcmil	LFCL0600ZC1
3	 CABLE TO OFFSET BUS	600 VAC	12 AWG	LFCL0012ZC3
		600 VAC	10 AWG	LFCL0010ZC3
		600 VAC	6 AWG	LFCL0006ZC3
		600 VAC	4 AWG	LFCL0004ZC3
		600 VAC	2 AWG	LFCL0002ZC3
		600 VAC	1 AWG	LFCL0001ZC3
		600 VAC	1/0 AWG	LFCL01/0ZC3
		600 VAC	2/0 AWG	LFCL02/0ZC3
		600 VAC	3/0 AWG	LFCL03/0ZC3
		600 VAC	4/0 AWG	LFCL04/0ZC3
		600 VAC	250 kcmil	LFCL0250ZC3
		600 VAC	350 kcmil	LFCL0350ZC3
5	 STRAIGHT BUS TO OFFSET BUS	250 VAC	2/0 & 3/0 AWG	LFCL-UHA*
		250 VAC	3/0 AWG	LFCL-UHJ-M*
		250 VAC	350 kcmil	LFCL-UHJ-T*
		250 VAC	600 kcmil	LFCL-UHJ-W*
		600 VAC	4/0 AWG	LFCL04/0ZC5*
		600 VAC	250 kcmil	LFCL0250ZC5*
		600 VAC	350 kcmil	LFCL0350ZC5*
		600 VAC	500 kcmil	LFCL0500ZC5*
6	 MOLE TO CABLE	600 VAC	4/0 AWG	LFCL04/0ZC6
		600 VAC	250 kcmil	LFCL0250ZC6
		600 VAC	500 kcmil	LFCL0500ZC6

*Suitable for use with aluminum cables / conductors. For sizing contact Tech-Line at 800-TEC-FUSE.

Description

Cable limiters are fusible devices that provide very fast short-circuit protection, primarily to faulted cables, but also to other conductors such as busway. Cable limiters do not have an ampere rating, and cannot be used to provide overload protection. They are instead selected by cable size; for example, a 500 kcmil cable requires a 500 kcmil cable limiter. Their main use is to isolate faulted cables in circuits containing three or more parallel conductors per phase. They may be installed on the line side of the main service to provide short-circuit protection to the service conductors. This is especially important when service conductors are tapped from large low voltage networks or from large low impedance transformers.

Cable limiters have terminals which permit them to be installed in a variety of equipment. The most common configuration is the offset blade on one end and the crimp terminal on the other end. This permits the limiter to replace a cable terminal (lug).

Applications

- Service Entrance Conductors
- Between Transformer or network bus and bus-way terminal boxes as secondary ties.
- Feeders with three or more conductors per phase to share heavier load in large commercial and industrial installations
- Multiple Single conductor services, tapped from single (utility) transformer in multi-family residential and small commercial installations.

Features

- Current-limiting characteristics provide protection to conductor insulation and reduce damage when faults occur.
- Properly applied cable limiters may permit the use of equipment with reduced withstand ratings
- Wide variety of terminations and cable ratings permit use in almost every situation.

Specifications

Voltage Ratings	250 VAC, 600 VAC
Interrupting Rating	100 kA (250 VAC), 200 kA (600 VAC)
Cable Size Range	12 AWG – 1000Kcmil Copper
Approvals	Contact Tech-Line at 800-TEC-FUSE
Recommended Installation Tool	Make: Thomas & Betts Crimp Tool: TBM14_, TBM15_

Web Resources

For additional information, see website:
Littelfuse.com/lfcl

CYLINDRICAL FUSES

500 Volts • 0.5-100 A



Description

Littelfuse fast acting (gL-gG) fuses are used for the protection of cables against short-circuits. Time-lag (aM) fuses are used for protection of motors.

Specifications

Standards

10x38 mm: IEC 60269
14x51 mm / 22x58mm: IEC 269-2-1

Ordering Information

BASE PART NUMBER	SIZE (mm)	CURRENT RANGE	VOLTAGE (AC)	INTERRUPTING RATING
CY10X38	10 x 38	0.5-16 A	500 V	120 kA
		20-25 A (aM)	400 V	120 kA
		20-25 A (gL-gG)	500 V	120 kA
		32 A	400 V	120 kA
CY14X51	14 x 51	2-25 A	690 V	80 kA
		32-40 A	500 V	120 kA
		50 A	400 V	120 kA
CY22X58	22 x 58	16-63 A	690 V	80 kA
		80-100 A	500 V	120 kA

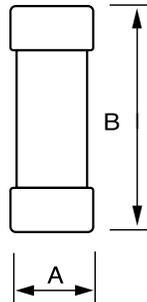
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OEM Custom Products

AMPERAGE	gL-gG ORDERING NUMBERS			aM ORDERING NUMBERS		
	10 X 38	14 X 51	22 X 58	10 X 38	14 X 51	22 X 58
0.5	CY10X38G05	—	—	CY10X38M05	—	—
1	CY10X38G1	—	—	CY10X38M1	—	—
2	CY10X38G2	CY14X51G2	—	CY10X38M2	CY14X51M2	—
4	CY10X38G4	CY14X51G4	—	CY10X38M4	CY14X51M4	—
6	CY10X38G6	CY14X51G6	—	CY10X38M6	CY14X51M6	—
8	CY10X38G8	CY14X51G8	—	CY10X38M8	CY14X51M8	—
10	CY10X38G10	CY14X51G10	—	CY10X38M10	CY14X51M10	—
12	CY10X38G12	CY14X51G12	—	CY10X38M12	CY14X51M12	—
16	CY10X38G16	CY14X51G16	CY22X58G16	CY10X38M16	CY14X51M16	CY22X58M16
20	CY10X38G20	CY14X51G20	CY22X58G20	CY10X38M20	CY14X51M20	CY22X58M20
25	CY10X38G25	CY14X51G25	CY22X58G25	CY10X38M25	CY14X51M25	CY22X58M25
32	CY10X38G32	CY14X51G32	CY22X58G32	CY10X38M32	CY14X51M32	CY22X58M32
40	—	CY14X51G40	CY22X58G40	—	CY14X51M40	CY22X58M40
50	—	CY14X51G50	CY22X58G50	—	CY14X51M50	CY22X58M50
63	—	—	CY22X58G63	—	—	CY22X58M63
80	—	—	CY22X58G80	—	—	CY22X58M80
100	—	—	CY22X58G100	—	—	CY22X58M100

Dimensions

FUSE SIZE	DIMENSIONS mm	
	A	B
10 X 38	10	38
14 X 51	14	51
22 X 58	22	58



Fuse Holders

AMP RATING	POLES	SIZE	CATALOG / ORDERING #	TERMINAL TYPE	DIN RAIL MOUNT
32 A	1	10 X 38	LFPSM0001Z	Pressure Plate	•
32 A	2	10 X 38	LFPSM0002Z	Pressure Plate	•
32 A	3	10 X 38	LFPSM0003Z	Pressure Plate	•
32 A	4	10 X 38	LFPSM0004Z	Pressure Plate	•
32 A	1	10 X 38	LFPSM0001ZXID*	Pressure Plate	•
32 A	2	10 X 38	LFPSM0002ZXID*	Pressure Plate	•
32 A	3	10 X 38	LFPSM0003ZXID*	Pressure Plate	•
32 A	4	10 X 38	LFPSM0004ZXID*	Pressure Plate	•
50 A	1	14 X 51	CYH14511	Pressure Plate	•
50 A	2	14 X 51	CYH14512	Pressure Plate	•
50 A	3	14 X 51	CYH14513	Pressure Plate	•
100 A	1	22 X 58	CYH22581	Pressure Plate	•
100 A	2	22 X 58	CYH22582	Pressure Plate	•
100 A	3	22 X 58	CYH22583	Pressure Plate	•

* Indicating

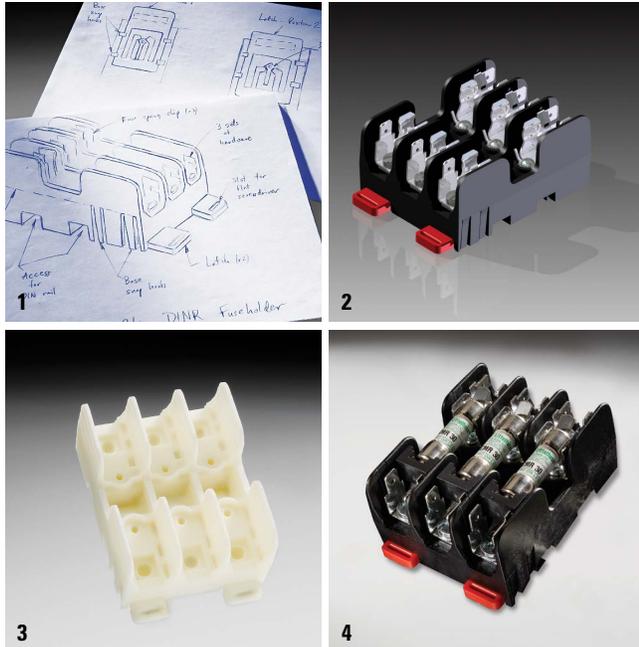
Web Resources

For additional product information

Fuses: Littelfuse.com/cy

Fuse Holders: Littelfuse.com/lfpsm
Littelfuse.com/cyh

OEM CUSTOM PRODUCTS



To speak with a sales associate regarding your application needs, call 800-TEC-FUSE (800-382-3873) or email techline@Littelfuse.com.

Examples



Two-Pole Combination Block

Save space and money by combining multiple components in one unit. Littelfuse collaborated with the customer to develop a cost effective UL listed component that combined a 600 Volt 100A two-pole Class T fuse block with a two-openings-per-pole splicer block.

Description

We understand that existing solutions don't always solve your current problems. Building on 90 years of circuit protection experience, the Littelfuse engineering team collaborates with customers to develop customized solutions for applications such as solar panels, HVAC systems, lift trucks, lighting fixtures, industrial restaurant equipment and power converters.

Process

The custom product design process begins with a situation analysis from our experienced engineers followed by our 4-step collaborative product development process.

1. Initial concept sketch created
2. CAD drawings to formalize the product description
3. 3D solid prototype to verify design
4. Final production parts that meet your design needs and specifications

Additional Customized Products

HAZGARD Fork Lift Fuse64

Web Resources

To learn more and contact our OEM team, visit: Littelfuse.com/industrialoem



Custom-Leaded Fuse

Save space and reduce cost by eliminating the fuse block component. Littelfuse designed a series of custom through-hole PC-board mountable KLKD Midget fuses for a consumer application where reduced cost was more important than replaceability.