












## FUSE CLASS AND SELECTION CHART

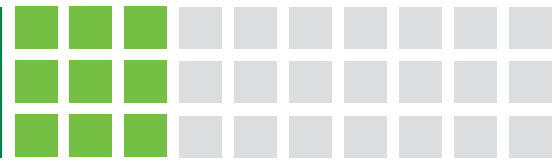
UL CLASS	LITTELFUSE SERIES	OVERLOAD CHARACTERISTICS	AC RATINGS			DC RATINGS			RECOMMENDED ACCESSORIES
			VOLTAGE (VOLTS)	CURRENT (AMPERES)	INTERRUPTING (AMPERES)	VOLTAGE (VOLTS)	CURRENT (AMPERES)	INTERRUPTING (AMPERES)	
 <b>L</b>	KLPC	Time-Delay	600	200–6000	200 K/300 K*	480	200–6000	20,000*	-
	KLLU	Time-Delay	600	601–4000	200,000	300	601–4000	20,000*	
	LDC	Fast-Acting	600	150–2000	200,000	600	150–2000	50,000	
 <b>RK1</b>	LLNRK	Time-Delay	250	0.1–600	200 K/300 K*	125	0.1–600	20,000*	LFR25
	LLSRK_ID	Time-Delay	600	0.1–600		300	0.1–600		LFR60
	LLSRK	Time-Delay	600	0.1–600		300	0.1–600		LFR60
	KLNR	Fast-Acting	250	1–600	200,000	125	1–600		LFR25
	KLSR	Fast-Acting	600	1–600		250	1–30		LFR60
 <b>RK5</b>	FLNR_ID	Time-Delay	250	35–600	200 K/300 K*	125	35–600	20,000	LFR25
	FLNR		250	0.1–600		125	0.1–600		
	FLSR_ID		600	0.1–600		300	0.1–600		
	FLSR		600	0.1–600		300	0.1–600		
	IDSR		600	0.1–600		600	0.1–600		
 <b>J</b>	JTD_ID	Time-Delay	600	0.8–600	200 K/300 K*	300	0.8–100	20,000*	LFIJ60 • LFPSJ
	JTD	Time-Delay	600	0.8–600		500	110–600		
	JLS	Fast-Acting	600	1–600	200,000	-	-	-	
 <b>T</b>	JLLN	Fast-Acting	300	1–1200	200,000	160	1–60	20,000	LFT30 • LSCR (700–800 A)
	JLLS		600	1–1200		300	1–1200	20,000	20 K (1–1200 A)*
 <b>CC</b>	CCMR	Time-Delay	600	0.2–30	200 K/300 K*	300	2/10-5-6/10	20 K (2/10-5-6/10)*	L60030C LFPS LPSC • 571 572 LEC • LEY 125
	KLDR	Time-Delay	600	0.1–30	200,000	500	6–30	20 K (6-30)	
	KLKR	Fast-Acting	600	0.1–30	200,000	300	0.1–30	20,000*	
 <b>CD</b>	CCMR	Time-Delay	600	35–60	200 K/300 K*	250	35–60	20,000*	LFC60060
 <b>G</b>	SLC	Time-Lag	600 480	0.5–20 25–60	100,000	170	0.5–60	10,000	LFG600 (½–20 A) LFG480 (25–60 A)
 <b>K5</b>	NLN	Fast-Acting	250	1–600	50,000	250	1–600	20 K (1–60 A) 50 K (70–600 A)	LFH25
	NLS		600	1–600		600 500 400 600 500	1–7 8–30 35–60 70–200 225–600	20 K (1–60 A) 50 K (70–600 A)	LFH60

\* Littelfuse self-certified



UL CLASS	LITTELFUSE SERIES	OVERLOAD CHARACTERISTICS	AC RATINGS			DC RATINGS			RECOMMENDED ACCESSORIES
			VOLTAGE (VOLTS)	CURRENT (AMPERES)	INTERRUPTING (AMPERES)	VOLTAGE (VOLTS)	CURRENT (AMPERES)	INTERRUPTING (AMPERES)	
<p><b>Midget</b> (Supplementary)</p>	BLF	Fast-Acting	250 125	0.5–15 20–30	10,000	–	–	–	L60030M 571 • 572 LEB • LEX • LPSM 125
	BLN	Fast-Acting	250	1–30	10,000	–	–	–	
	BLS	Fast-Acting	600 250	0.2–5 6–10	10,000	–	–	–	
	FLA	Time-Delay	125	0.1–30	10,000	–	–	–	
	FLM	Time-Delay	250	0.1–30	10,000	125	0.1–30	10,000*	
	FLQ	Time-Delay	500	0.1–30	10,000	300	0.1–30	10,000*	
	KLK	Fast-Acting	600	0.1–30	100 K/200 K*	500	0.1–30	50,000	
	KLKD	Fast-Acting	600	0.1–30	100 K/200 K*	600	0.1–30	50,000	
	KLQ	Time-Delay	600	1–6	10,000	–	–	–	
FLU	Fast-Acting	1000	0.44/ 11	10,000 20,000	1000	0.44 11	10,000 20,000	LPHV	
<p><b>Solar</b></p>	SPF	Solar (gPV)	–	–	–	1000	1–30	20,000 (1A–20 A) 50,000 (25–30 A)	LPHV 125
	SPFJ		600	125–450	200,000	1000	70–450	20 K (70–200 A) 10 K (250–400 A) 20 K (450 A)	LFJ10 • LSCR
	SPFI		–	–	–	1000	2–30	20,000	Not Required
	SPXV		–	–	–	1500	1–60	50 K (1–20 A)* 50 K (25–30 A) SPXV-M 50 K (35–60 A)	LFPXV 125 LFXV150
	SPXI		–	–	–	1500	1–32	30 K (1–20A) 30 K (1–20 A) SPXI-B 50 K (35–50 A) 50 K (35–60 A) SPXI-B 50 K (25–32 A) SPXI-M & SPXI-BM	Not Required
	SPXC		–	–	–	1500	1–4	50,000*	125003
<p><b>High-Speed</b></p>	ESR	Very Fast-Acting	–	–	–	1500	125–630	250,000	LSCR
	L15S		150	1–1000	100,000	150 100	1–60 70–1000	20,000*	125 • LSCR • 1LFS
	L25S		250	1–800	200,000	250 200	1–200 225–800		107/127 • LSCR • 1LFS
	L50QS		500	35–800		500	35–800	50,000	LSCR
	L50S			10–800	450	10–800	20,000	107/127 • LSCR • 1LFS	
	L60QS		600	40	200,000	600	40	100,000	–
	L60S		600	1–800		–	–	–	109/129 • LSCR • 1LFS
	L70QS		700	35–800	–	700	35–800	50,000	LSCR
	L75QS		–	–	–	750	35–800	50,000	LSCR
	L70S		700	10–800	–	650	10–800	20,000	LSCR • 1LFS 107/127
	PSR		500–700	40–2250	200,000	450–600	40–2250	150,000	MS3H1000C
	PSR		900–1300	50–1400	100,000	800–1000	50–1400	150,000	MS7H1500C
	PSX		–	–	–	1500	80–1400	250,000	MSXL2000C
<p><b>Telecom</b></p>	L17T	Fast-Acting	–	–	–	170	70–1200	100,000	LTFD Series
	TLN		–	–	–		1–600		LFR25
	TLS		–	–	–	1–125	LTFD101 LFT30060 (cartridge)		
	CNN_E		Very Fast-Acting	–	–	–	80		35–800
<p><b>Forklift</b></p>	581	Fast-Acting	48	35–800	2500	48	35–800	2500	LFFB

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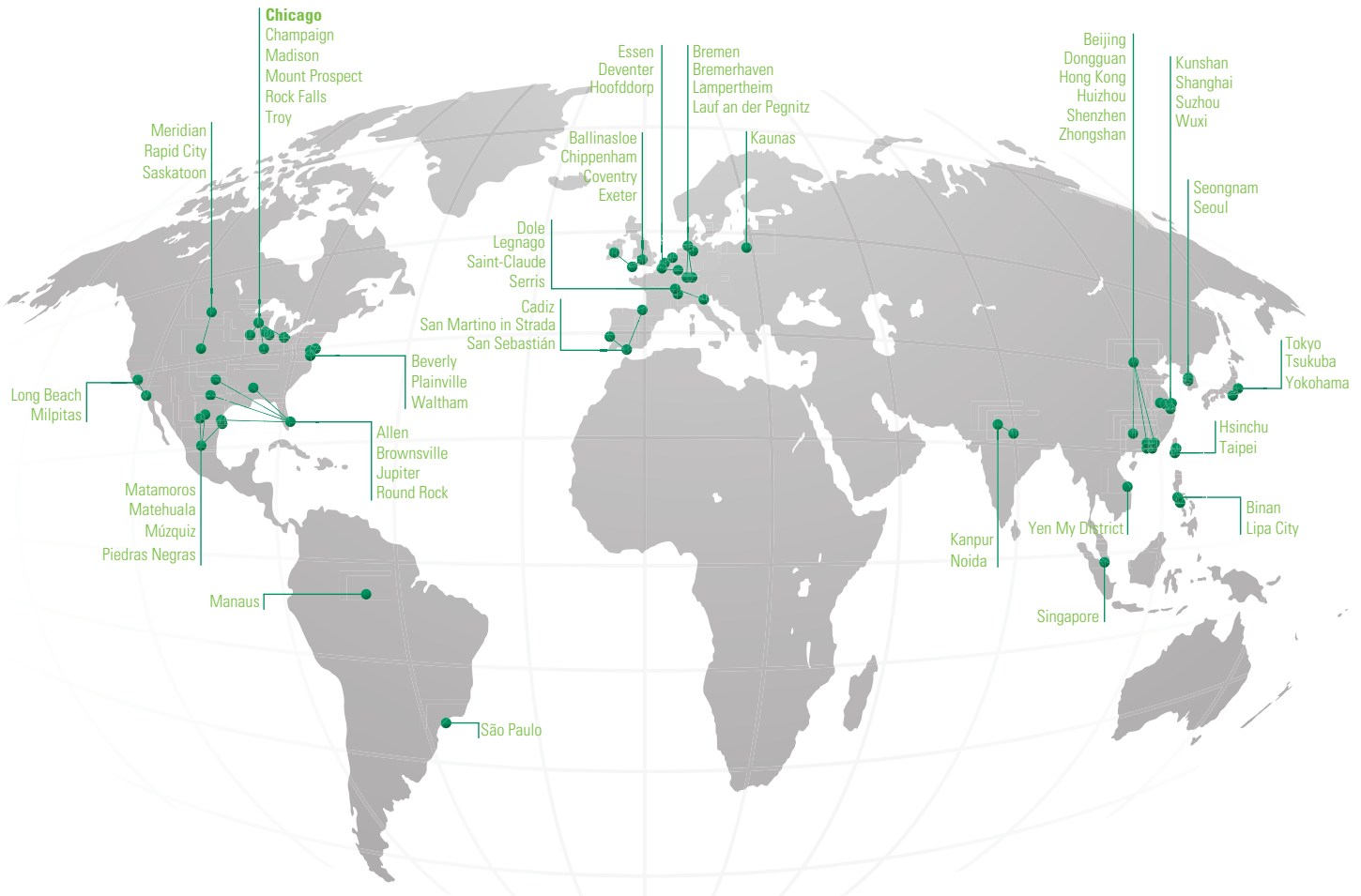
## CONDENSED CROSS REFERENCE GUIDE

This cross reference covers the most popular fuses for which there is a similar Littelfuse standard item. Furnished for your convenience, it is meant to serve as a guide for product selection. We suggest you check all applicable specifications before making substitutions. For special applications, more complete information, and for fuse block and medium voltage fuse cross referencing, visit [Littelfuse.com](http://Littelfuse.com) or call 1-800-TEC-FUSE (1-800-832-3873).

COMPETITOR	LITTELFUSE	COMPETITOR	LITTELFUSE	COMPETITOR	LITTELFUSE	COMPETITOR	LITTELFUSE
TLN	NLN	C520	225	HSJ	LDFJ	NON	NLN
10KOTS	NLS	CHSF	L500S	JDL	JTD_ID	NOS	NLS
50KOTN	NLN	CJ	JLS	JFL	JLS	NRN	NLN
50KOTS	NLS	CJS	JLS	JHC	JTD_ID	NRS	NLS
170M	PSR	CLF	KLPC or KLLU	JHL	LDFJ	OT	NLN
A013F	L15S	CLL	KLLU or KLPC	JJN	JLLN	OTM	BLF or BLN
A015F	L15S	CLU	KLLU or KLPC	JJS	JLLS	OTN	NLN
A015R	L15S	CM	BLF	JKS	JLS	OTS	NLS
A025F	L25S	CRN-R	FLNR_ID ‡	KAA	L15S	PC_UD	PSR
A050F	L500S	CRS-R	FLSR_ID	KAB	L25S	PSC	PSR
A060F	L60S	CTN-R	KLNR	KAC	KLC	PV-(1-30)A10F	SPF
A070F	L700S	CTS-R	KLSR	KBH	L500S	PV_A10FCT	SPFI
A13X	L15S	DCT	SPF†	KLM	KLKD	PV_A14LF10F	SPXV
A25X	L25S †	DFJ	LDFJ	KLU	KLLU or KLPC	PV_A14LF85L	SPXV
A2D-R	LLNRK §	EBS	BLS	KN	KLNR	REN	FLNR +
A2K-R	KLNR	ECSR	FLNR_ID ‡	KON	NLN	RES	FLSR +
A3T	JLLN	ECSR	FLSR_ID	KOS	NLS	RF	FLNR +
A4BQ	KLPC	ERN	FLNR +	KRP-C	KLPC	RFA	L15S
A4BT	KLLU or KLPC	ERS	FLSR +	KS	KLSR	RFC	KLC
A4BY	KLPC or KLLU	ESS	PSX	KTK	KLK	RFL (750V)	L70S (700 V)
A4J	JLS	FNA	FLA	KTKR	KLKR	RFN (Mersen)	FLNR +
A50P (type 1 & 4)	L500S	FNM	FLM	KTNR	KLNR	RFS (Mersen)	FLSR +
A500S	L500S	FNQ	FLQ	KTSR	KLSR	RFV	L500S
A60Q	L600S	FNQ-R	KLDR	KTU 601-2000A	LDC	RHN	KLNR
A60X	L60S	FRN-R	FLNR_ID ‡	KTU 2500-6000A	KLPC	RHS	KLSR
A6D-R	LLSRK_ID §	FRS-R	FLSR_ID	LCL	KLPC or KLLU	S	SOO
A6K-R	KLSR	FVA	L15S †§	LCU	LDC	SA	SAO
A6T	JLLS	FWC-10F	L600S	LENRK	LLNRK	SC	SLC
A70P	L700S	FWH	L500S	LESRK	LLSRK_ID	SEC	SLC
A700S	L700S	FVP	L700S	LKU	KLLU	SF13X	L15S
ABC	314	FWX	L25S * †	LONRK	LLNRK	SF25X	L25S
ACK	CCK	GDA	216	LOSRK	LLSRK_ID	SF50P	L500S
AG	SLC	GDB	217	LPCC	CCMR	SF60X	L60S
AGA	AGA	GDC	218	LPJ (SP)	JTD_ID	SF70P	L700S
AGC	312	GDL	313	LPNRK (SP)	LLNRK §	SFE	SFE
AGU (1-30A)	BLN	GEB	LEB	LPSRK (SP)	LLSRK_ID	SL	SLO
AGW	AGW	GEBN	LET	MCL	KLK	T	TOO
AJT	JTD_ID	GFA	251	MCR	251	TGS	TLS
AMG	MEG	GFN	FLA	MDA	326	TJN	JLLN
AMI	MID	GGC	312	MDL	313	TJS	JLLS
ANL	CNL §	GGM	235	MDQ	313	TL	TLO
ANN	CNN_E	GLR	LGR	MDV	315	TPS	TLS
ASO	SPF	GMA	235	MDX	313	TR	FLNR_ID ‡/§
ATC	ATO (287)	GMD	239	MEN	FLM	TRM	FLM
ATC	FLNR_ID ‡	GMT	481	MEQ	FLQ	TRN-R	FLNR_ID ‡/§
ATDR	CCMR §	HCLR	KLKR	MID	FLA	TRS	FLSR_ID §
ATM (Mersen)	KLKD	HCTR	KLDR	MOF	BLN	TRS-R	FLSR_ID §
ATMR	KLKR §	HEB	LEB	MOL	BLF	XL25X	L25S
ATQ	FLQ	HET	LET	MTH	312	XL50F	L500S
ATQR	KLDR	HLR	LHR	NCLR	KLNR	XL70F	L700S
AX	481	HP10M	SPF				
A_UD	PSR	HP10M_CC	SPFI				
BAF	BLF	HP15G	SPXC				
BAN	BLN	HP15M	SPXV				
BBS	BLS	HP15M_CC	SPXI				
C519	229	HP6J	SPFJ *				

A fuse may be used in circuits where the fuse's voltage rating is equal to or greater than the circuit voltage, unless otherwise stated on the fuse. For example, the FLSR\_ID indicating fuse has a voltage rating of 75-600 volts. This fuse can be used on 600 volts, 480 volts, 250 volts, 125 volts, or 75 volts. Never use a fuse in a circuit having a higher rated voltage than the fuse.  
 \* Check specific mounting dimensions before substituting.  
 † Check characteristics and dimensions for application before substituting.  
 ‡ For 1/10-30 amperes, order non-indicating FLNR series fuses.  
 § Verify voltage for dc applications.  
 + Littelfuse product is a non-renewable fuse.

# LOCAL RESOURCES FOR A **GLOBAL** MARKET



## Littelfuse.com/Fuses

For a comprehensive library of resources including datasheets, product manuals, white papers, application guides, demos, online design tools, catalogs, and more, visit [Littelfuse.com/TechnicalResources](https://www.littelfuse.com/TechnicalResources)

### North America

**Littelfuse World Headquarters**  
8755 West Higgins Road, Suite 500  
Chicago, IL 60631, USA

**Littelfuse SymCom**  
1241 Concourse Drive  
Rapid City, SD 57703, USA

**Littelfuse Startco**  
140 – 15 Innovation Boulevard  
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Saskatoon, SK S7N 2X8, Canada  
Tel: +1-306-373-5505

**Hartland Controls now part of Littelfuse**  
807 Antec Road  
Rock Falls, IL 61071, USA  
Tel: +1-815-626-5170

**Technical Support:**  
Tel: +1-800-TEC-FUSE  
E-mail: [techline@littelfuse.com](mailto:techline@littelfuse.com)

**Customer Service:**  
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Littelfuse products are certified to many standards around the world. To check certifications on specific components, please refer to the specific product datasheet on [Littelfuse.com](https://www.littelfuse.com).

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