














## 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*	LFI60 • 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 K (1–30 A)*	LFT30 • LSCR (700–800 A)
	JLLS		600	1–1200		300	1–1200	20 K (35–1200 A)*	LFT60 • LSCR (700–800 A)
 <b>CC</b>	CCMR	Time-Delay	600	0.2–30	200 K/300 K*	300	2/10–10	20,000*	L60030C
	KLDR	Time-Delay	600	0.1–30	200,000	500	12–30		LFPSC
	KLKR	Fast-Acting	600	0.1–30	200,000	300	0.1–30		LPSC • 571 572 LEC • LEY
 <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



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			VOLTAGE (VOLTS)	CURRENT (AMPERES)	INTERRUPTING (AMPERES)	VOLTAGE (VOLTS)	CURRENT (AMPERES)	INTERRUPTING (AMPERES)	
 <b>Midget</b> (Supplementary)	BLF	Fast-Acting	250 125	0.5–15 20–30	10,000	–	–	–	L60030M 571 • 572 LEB • LEX • LPSM
	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	
 <b>Solar</b>	SPF	Solar (gPV)	–	–	–	1000	1–30	20,000 (1A–20 A) 50,000 (25–30 A)	LPHV
	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
	SPNH		–	–	–	1500	50–400	30,000	LFNH
	SPXV		–	–	–	1500	1–60	50 K (1–20 A)* 50 K (25–30 A) SPXV-M 50 K (35–60 A)	LFPXV 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*	
 <b>High-Speed</b>	L15S	Very Fast-Acting	150	1–1000	100,000	150 100	1–60 70–1000	20,000*	LSCR • 1LFS
	L25S		250	1–800	200,000	250 200	1–200 225–800		
	L50QS		500	35–800		500	35–800	50,000	LSCR
	L50S			10–800	450	10–800	20,000	LSCR • 1LFS	
	L60S		600	1–800	–	–	–	–	
	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
	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		
 <b>Telecom</b>	L17T	Fast-Acting	–	–	–	170	70–1200	100,000	LTFD Series
	TLN		–	–	–		1–600		LFR25
	TLS		–	–	–	–	1–125		LTFD101 LFT30060 (cartridge)
			–	–	–	–	–		

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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	C519	229	JHC	JTD_ID	NOS	NLS
10KOTS	NLS	C520	225	JHL	LDFJ	NRN	NLN
50KOTN	NLN	CHSF	L50QS	JJN	JLLN	NRN (15-60A)	NLKP
50KOTS	NLS	CJ	JLS	JJS	JLLS	NRS	NLS
170M	PSR	CJS	JLS	JKS	JLS	OT	NLN
A013F	L15S	CLF	KLPC or KLLU	KAA	L15S	OTM	BLF or BLN
A015F	L15S	CLL	KLLU or KLPC	KAB	L25S	OTN	NLN
A015R	L15S	CLU	KLLU or KLPC	KAC	KLC	OTS	NLS
A025F	L25S	CM	BLF	KBH	L50QS	PC_UD	PSR
A050F	L50QS	CRN-R	FLNR_ID †	KLM	KLKD	PSC	PSR
A060F	L60S	CRS-R	FLSR_ID	KLU	KLLU or KLPC	PV-(1-30)A10F	SPF
A070F	L70QS	CTN-R	KLNR	KN	KLNR	PV-(50A-200A)1XL15	SPNH
A13X	L15S	CTS-R	KLSR	KON	NLN	REN	FLNR †
A25X	L25S †	DCT	SPF †	KOS	NLS	RES	FLSR †
A2D-R	LLNRK §	DFJ	LDFJ	KRP-C	KLPC	RF	FLNR †
A2K-R	KLNR	EBS	BLS	KS	KLSR	RFA	L15S
A3T	JLLN	ECNR	FLNR_ID †	KTK	KLK	RFC	KLC
A4BQ	KLPC	ECSR	FLSR_ID	KTKR	KLKR	RFL (750V)	L70S (700 V)
A4BT	KLLU or KLPC	ERN	FLNR †	KTNR	KLNR	RFN (Mersen)	FLNR †
A4BY	KLPC or KLLU	ERS	FLSR †	KTSR	KLSR	RFS (Mersen)	FLSR †
A4J	JLS	FNA	FLA	KTU 601-2000A	LDC	RFV	L50QS
A50P (type 1 & 4)	L50QS	FNM	FLM	KTU 2500-6000A	KLPC	RHN	KLNR
A50QS	L50QS	FNQ	FLQ	LCL	KLPC or KLLU	RHS	KLSR
A60X	L60S	FNQ-R	KLDR	LCU	LDC	S	SOO
A6D-R	LLSRK_ID §	FRN-R	FLNR_ID †	LENRK	LLNRK	SA	SAO
A6K-R	KLSR	FRS-R	FLSR_ID	LESRK	LLSRK_ID	SC	SLC
A6T	JLLS	FWA	L15S † §	LKU	KLLU	SEC	SLC
A70P	L70QS	FWH	L50QS	LONRK	LLNRK	SF13X	L15S
A70QS	L70QS	FVP	L70QS	LOSrk	LLSRK_ID	SF25X	L25S
ABC	314	FWX	L25S * †	LPCC	CCMR	SF50P	L50QS
ACK	CCK	GDA	216	LPJ (SP)	JTD_ID	SF60X	L60S
AG	SLC	GDB	217	LPNRK (SP)	LLNRK §	SF70P	L70QS
AGA	AGA	GDC	218	LPSRK (SP)	LLSRK_ID	SFE	SFE
AGC	312	GDL	313	MCL	KLK	SL	SLO
AGU (1-30A)	BLN	GEB	LEB	MCR	251	T	TOO
AGW	AGW	GEBN	LET	MDA	326	TJN	JLLN
AJT	JTD_ID	GFA	251	MDL	313	TJS	JLLS
AMG	MEG	GFN	FLA	MDQ	313	TL	TLO
AMI	MID	GGC	312	MDV	315	TR	FLNR_ID †/§
ANL	CNL §	GGM	235	MDX	313	TRM	FLM
ANN	CNN_E	GLR	LGR	MEN	FLM	TRN-R	FLNR_ID †/§
ASO	SPF	GMA	235	MEQ	FLQ	TRS	FLSR_ID §
ATC	ATO (287)	GMD	239	MID	FLA	TRS-R	FLSR_ID §
ATC	FLNR_ID †	GMT	481	MOF	BLN	XL25X	L25S
ATDR	CCMR §	HCLR	KLKR	MOL	BLF	XL50F	L50QS
ATM (Mersen)	KLKD	HCTR	KLDR	MTH	312	XL70F	L70QS
ATMR	KLKR §	HEB	LEB	NCLR	KLNR		
ATQ	FLQ	HET	LET	NON	NLN		
ATQR	KLDR	HLR	LHR				
AX	481	HP10M	SPF				
A_UD	PSR	HP6J	SPFJ *				
BAF	BLF	HSJ	LDFJ				
BAN	BLN	JDL	JTD_ID				
BBS	BLS	JFL	JLS				

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.

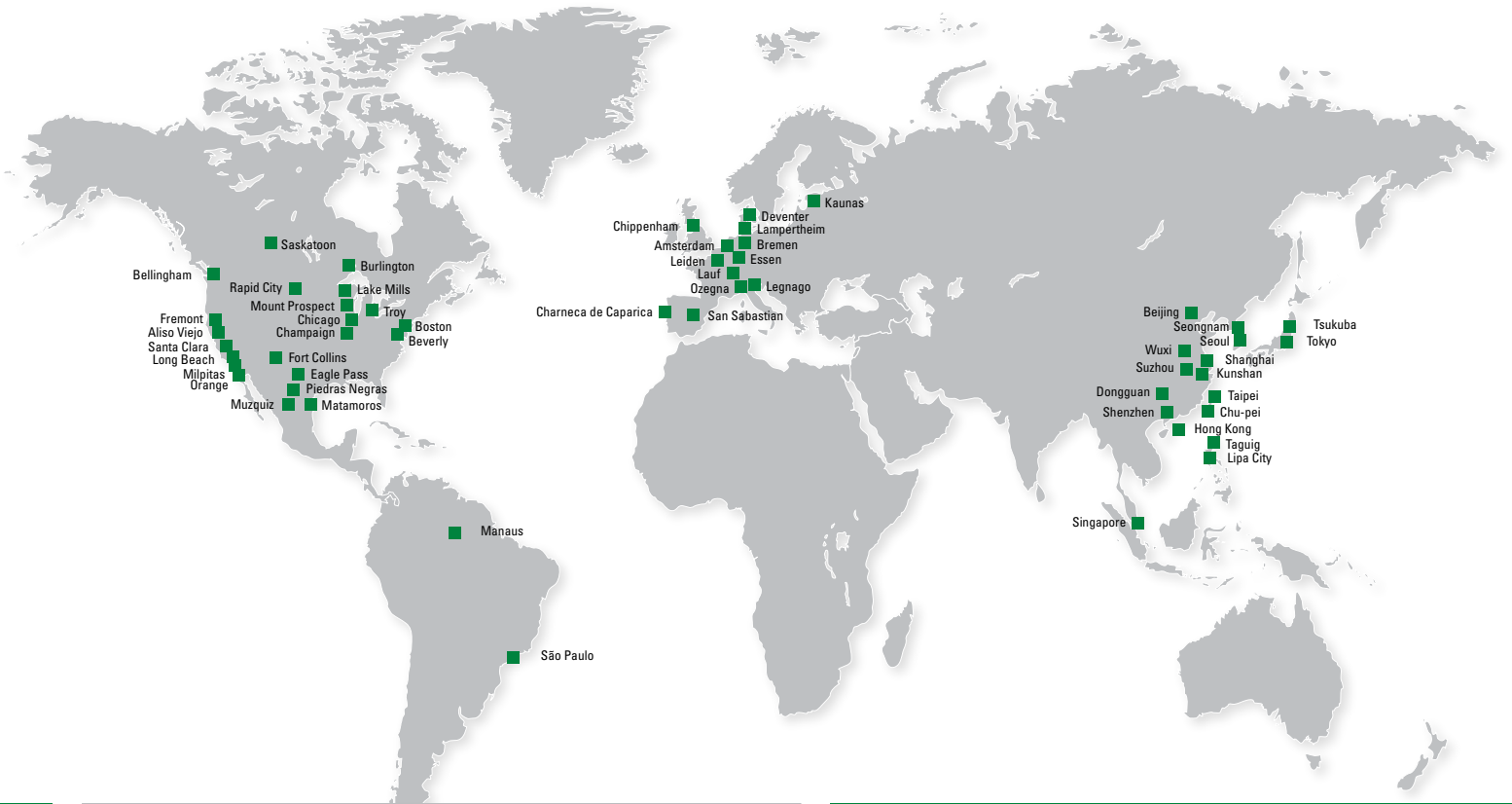
† Check characteristics and dimensions for application before substituting.

‡ 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](https://www.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  
(The Galleria Building)  
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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E-mail: [PG\\_CSG@littelfuse.com](mailto:PG_CSG@littelfuse.com)

## Asia

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Bremen, D-28279, Germany  
+49 421 82 87 3 147



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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