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POWR-GARD® FUSE Selection Guide

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)	
 **L**	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	
 **RK1**	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		250 300	1–30 35–600		LFR60
 **RK5**	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		LFR60
	FLSR		600	0.1–600		300	0.1–600		
	IDSR		600	0.1–600		600	0.1–600		
 **J**	JTD_ID	Time-Delay	600	0.8–600	200 K/300 K*	300	0.8–100	20,000*	LFJ60 • LFPSJ
	JTD	Time-Delay	600	0.8–600		500	110–600		
	JLS	Fast-Acting	600	1–600	200,000	–	–	–	
 **T**	JLLN	Fast-Acting	300	1–1200	200,000	160 125	1–60 70–1200	20 K (1–30 A)* 20 K (35–1200 A)	LFT30 • LSCR (700–800 A)
	JLLS		600	1–1200		300	1–1200	20 K (1–1200 A)*	LFT60 • LSCR (700–800 A)
 **CC**	CCMR	Time-Delay	600	0.2–30	200 K/300 K*	300 500	2/10–10 12–30	20,000*	L60030C LFPSC LPSC • 571 572 LEC • LEY
	KLDR	Time-Delay	600	0.1–30	200,000	300	0.1–30		
	KLKR	Fast-Acting	600	0.1–30	200,000	300	0.1–30		
 **CD**	CCMR	Time-Delay	600	35–60	200 K/300 K*	250	35–60	20,000*	LFC60060
 **G**	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)
 **K5**	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

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			VOLTAGE (VOLTS)	CURRENT (AMPERES)	INTERRUPTING (AMPERES)	VOLTAGE (VOLTS)	CURRENT (AMPERES)	INTERRUPTING (AMPERES)	
 **Midget** (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
 **Solar**	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	LFPXV
								50 K (35–60 A)	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*	
 **High-Speed**	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
 **Telecom**	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 or call 1-800-TEC-FUSE (1-800-832-3873).

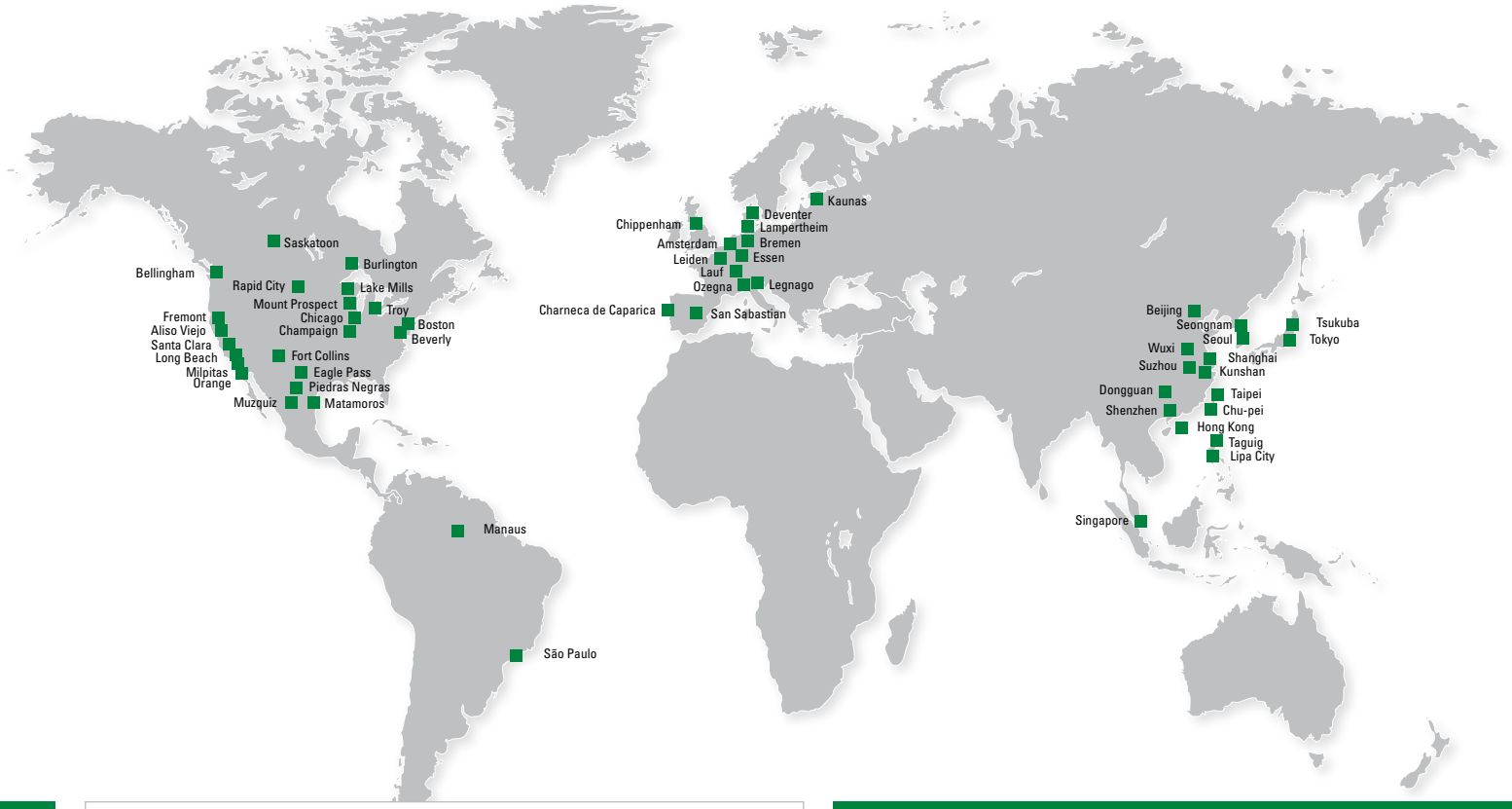
COMPETITOR	LITTELFUSE	COMPETITOR	LITTELFUSE	COMPETITOR	LITTELFUSE	COMPETITOR	LITTELFUSE
TLN	**NLN**	C519	**229**	JHC	**JTD_ID**	NOS	**NLS**
10KOTS	**NLS**	C520	**225**	JHL	**LDFJ**	NRN	**NLN**
50KOTN	**NLN**	CHSF	**L50QS**	JJN	**JLLN**	NRN (15-60A)	**NLKP**
50KOTS	**NLS**	CJ	**JLS**	JJS	**JLLS**	NRS	**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**	FWP	**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.

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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**

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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.

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