

FUSE BLOCK OVERVIEW



Description

Littelfuse offers a comprehensive line of fuse blocks that incorporate many benefits such as indication, snap to-release, DIN-Rail mounting and universal mounting holes.

New Options Available

- Reduced Footprint—Save space with designs up to 35% smaller in width
- Indication—Increase safety and reduce downtime with built-in local indication
- Universal Mounting Holes—Simplify replacement with universal mounting options
- DIN Rail Mountable—Ease installation with a 35 mm hat DIN Rail mounting option
- One-Hand Release—Save time by using only one hand for a simple release from DIN Rail

Fuse Block Selection

The following guidelines should help simplify the selection of proper fuse blocks:

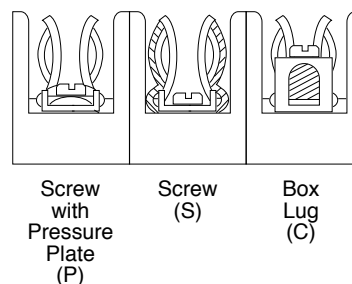
- 1. Determine the system voltage**—Since fuses are selected on the basis of system voltage, fuse blocks are selected to match the voltage rating of the fuse.
- 2. Determine the design short-circuit current**—If available short-circuit current cannot be determined, or if it will vary with equipment location, select fuses with a 200,000 ampere interrupting rating (A.I.R.) and mating fuse blocks with a withstand rating of 200,000 amperes for maximum safety.
- 3. Determine the type and ampere rating of the fuse to be used**—The fuse ampere rating, opening characteristics (fast acting or time-delay) and size are important considerations in fuse selection. Fuse blocks may be used with a fuse rated at the corresponding ampere rating or below. For example, a fuse block rated at 30 amperes may be used with a fuse rated from 0 to 30 amperes.
- 4. Determine if NEC®, CSA, UL, or other requirements are applicable**—Any of these requirements should be obtained from the approving agency in advance of fuse and fuse block selection.

5. Select the type of wire termination

Three types of wire termination are available:

- Screw*—for use with spade lugs or ring terminals
- Screw with Pressure Plate*—for use with solid or stranded wire without terminal. Recommended where vibration will be a factor
- Box Lug—for use with all types of solid wire and Class B and Class C stranded wire. The most durable, but not for use with welding cable or other rope-stranded conductors.

*¹/₄" Quick Connect terminals are available on the Midget and Class CC fuse blocks.



6. Decide on the number of poles in each block—The number of poles for each set of fuses is determined by the characteristics of the circuit.

7. Determine if block should be DIN Rail mounted—Many of the new Littelfuse fuse blocks are DIN Rail mountable. Be sure to look to corresponding ordering tables to match the correct part number on the following product pages.

8. Determine if fuse clips need to be reinforced

Fuse clips may have a tendency to lose some of their tension over a period of time. This may be prevented by specifying reinforced fuse clips.

Ordering Information

The Littelfuse fuse block part number consists of the below skeleton. Please refer to UL Class Tables for specific information.

LFH250301S	L60030M2PQ
Littelfuse	Littelfuse
UL Class	Voltage
Voltage	Ampere
Ampere	UL Class
Poles	Poles
Connector Type	Connector Type
	Quick Connect
†For all Class R, H, J, G and T Fuse blocks	For all Class CC, and Midget-Style

†These new fuse blocks replace previous Littelfuse fuse blocks that had very similar part numbers for customer convenience. The only change is an "F" has been added as the second character in the new block part numbers.

Caution: Littelfuse indicating fuse blocks are intended to quickly identify open fuses while power is still applied. Only qualified electrically trained technicians should replace fuses and follow standard OSHA and NFPA 70E safe work practices, such as Lock-Out and Tag-Out procedures and verification before replacing any fuses in indicating fuse blocks.

LF SERIES INDICATING FUSE BLOCKS



**Smaller Footprint
Provides Space Savings**



**DIN-Rail Mounting
Eases Installation**



**Indication Improves
Functionality**

An Indication of Value

The Littelfuse LF Series Fuse Blocks and Covers offer generous space savings and a greater value over previous generations. View the different series classes for available indication, snap-to-release DIN rail mounting, universal mounting holes and touch-safe covers.

LF SERIES CLASS CC/CD AND MIDGET (10x38 mm) FUSE BLOCKS

600 V



Description

The Littelfuse Class CC, CD and midget blocks offer generous space savings and enhanced value. DIN-rail mounting and universal mounting holes are available as well as an indication feature on all Class CD fuse blocks.

Features/Benefits

- Space-saving design
- Universal mounting holes for easy replacement
- Indication offered on CD blocks
- One hand release from DIN rail optional
- Rejection feature that prevents the insertion of fuses with lower interrupting rating or voltage ratings
- Clip design reduces resistance and heat
- Non DIN-rail fuse blocks have interlocking feature allowing ganging for any number of poles
- Covers available for all amperages to enhance safety

Specifications

Voltage Rating	600 Vac/dc
Ampere Ratings	L600M Midget (10x38): 30 A L600C Class CC: 30 A LFC Class CD: 60 A L600CM Class CC & Midget: 30 A
Dielectric strength	1200 V minimum
Materials	Clip/terminals: Tin-plated copper alloy Box lug: Copper Screw & captive pressure plate: Zinc-plated steel Base: Thermoplastic UL94 V-0 flammability rating
Withstand Rating (SCCR)	L60030C: 200kA L60030M: 10kA, 20kA or 100kA based on the Midget fuse used LFC600: 200kA
Approvals	L600M: UL Recognized (File: E14721) CSA Certified (File: LR7316) L600C: UL Listed (File: E14721) CSA Certified (File: LR7316) LFC: UL Listed (File: E14721) CSA Certified (File: LR7316) L600CM: UL Recognized (File: E14721) CSA Certified (File: LR7316)
Environmental	RoHS Compliant, Lead (Pb) Free

Recommended Fuses

Class CC Blocks:	CCMR, KLDR, KLKR
Class CM Block:	Fuses same as CC & Midget Blocks
Class CD Blocks:	CCMR
Midget Blocks:	BLF, BLN, BLS, FLA, FLM, FLQ, FLU, KKK, KLKD, KLO

Web Resources

Sample requests and technical downloads:
littelfuse.com/fuseblocks

Ordering Information (L600C Class CC and L600M Midget 30 A)

AMP RATING	POLES	CLASS CC ORDERING NUMBER		MIDGET ORDERING NUMBER		CONNECTOR TYPE	TORQUE	WIRE RANGE	WIRE TYPE		BASE TEMP	COVER ORDERING NUMBER				
		NON-DIN*	DINR	NON-DIN*	DINR											
30	1	L60030C1C	L60030C1CDINR	L60030M1C	L60030M1CDINR	Box Lug	4.0 N-m (35 in-lbs)	6-14 AWG	CU Only	Solid / Stranded	125°C	SPL001				
	2	L60030C2C	L60030C2CDINR	L60030M2C	L60030M2CDINR											
	3	L60030C3C	L60030C3CDINR	L60030M3C	L60030M3CDINR											
30	1	L60030C1PQ	L60030C1PQDINR	L60030M1PQ	L60030M1PQDINR	Pressure Plate w/Q.C. Terminal	2.3 N-m (20 in-lbs)	10-14 AWG			CU Only	Solid / Stranded	125°C	SPL001		
	2	L60030C2PQ	L60030C2PQDINR	L60030M2PQ	L60030M2PQDINR											
	3	L60030C3PQ	L60030C3PQDINR	L60030M3PQ	L60030M3PQDINR											
30	1	L60030C1SQ	L60030C1SQDINR	L60030M1SQ	L60030M1SQDINR	Screw w/Q.C. Terminal	2.3 N-m (20 in-lbs)	10-14 AWG					CU Only	Solid / Stranded	125°C	SPL001
	2	L60030C2SQ	L60030C2SQDINR	L60030M2SQ	L60030M2SQDINR											
	3	L60030C3SQ	L60030C3SQDINR	L60030M3SQ	L60030M3SQDINR											

Ordering Information (L600CM Class CC and Midget Combination 30 A)

AMP RATING	POLES		COMBINATION 2 CLASS CC / 1 MIDGET ORDERING NUMBER		CONNECTOR TYPE	TORQUE	WIRE RANGE	WIRE TYPE	BASE TEMP	COVER ORDERING NUMBER [†]
	CLASS CC	MIDGET	NON-DIN	DINR						
30	2	1	L60030CM3PQ	—	Pressure Plate w/Q.C. Terminal	2.3 N-m (20 in-lbs)	10-14 AWG	CU Only Solid / Stranded	125°C	SPL001

LF SERIES CLASS CC/CD AND MIDGET (10X38 mm) FUSE BLOCKS

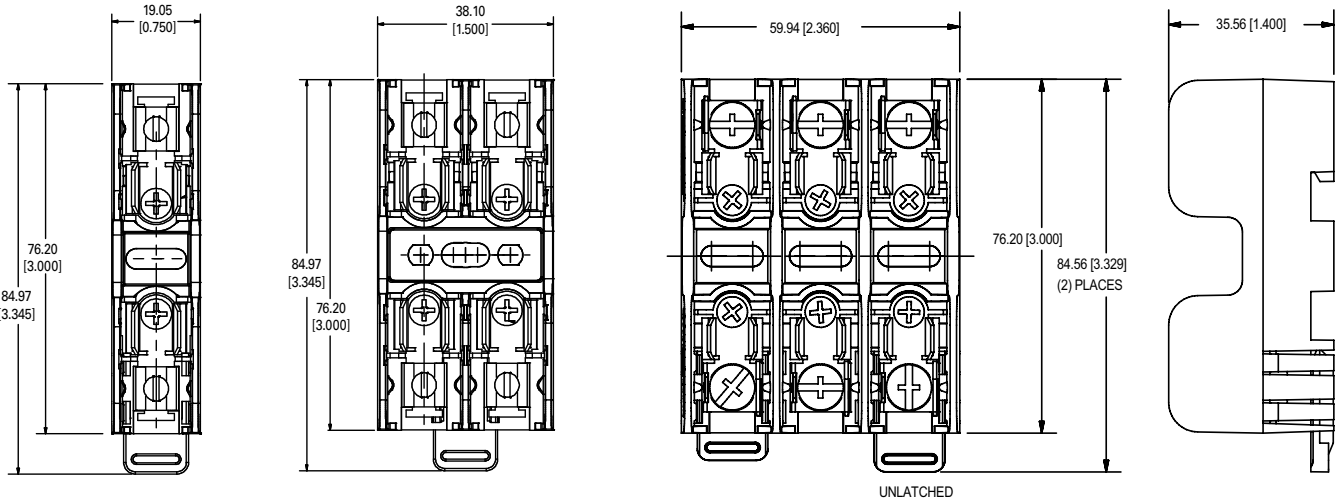
Ordering Information (LFC Class CD 60 A)

AMP RATING	POLES	ORDERING NUMBER	CONNECTOR TYPE	TORQUE	WIRE RANGE	WIRE TYPE		BASE TEMP RATING	DIN RAIL MOUNT	INDICATION	COVER ORDERING NUMBER¹
60	1	LFC600601CID	Box Lug	5.6 N-m (50 in-lbs)	2-4 AWG	CU-AL	Solid / Stranded	125°C	•	•	LFC60060FBC
	2	LFC600602CID		2.8 N-m (25 in-lbs)	6-14 AWG						
	3	LFC600603CID									

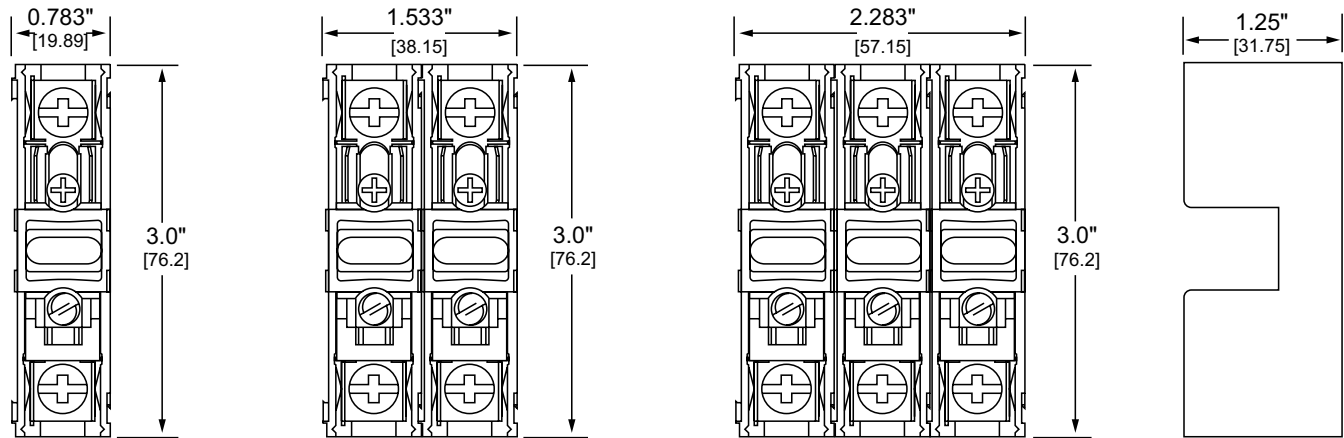
* Gangable — † Covers sold individually. One cover needed for each pole.

Dimensions mm (inches)

L600M-DINR Midget and L600C-DINR Class CC 30 A



L600M Midget, L600C Class CC and L600CM Combination 30 A



LF SERIES CLASS CC/CD AND MIDGET (10X38 mm) FUSE BLOCKS

Dimensions mm (inches)

LFC CLASS CD 60 A

