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
		600 VAC	750 kcmil	LFCL0750ZC1
		600 VAC	1000 kcmil	LFCL1000ZC1
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
		600 VAC	500 kcmil	LFCL0500ZC3
		600 VAC	600 kcmil	LFCL0600ZC3
		600 VAC	750 kcmil	LFCL0750ZC3
5	STRAIGHT BUS TO OFFSET BUS	250 VAC	2/0 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	500 kcmil	LFCL0500ZC5*
		600 VAC	750 kcmil	LFCL0750ZC5*
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 Littelfuse Technical Support at 1-800-TEC-FUSE or techline@littelfuse.com

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**

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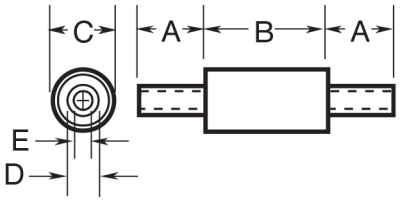
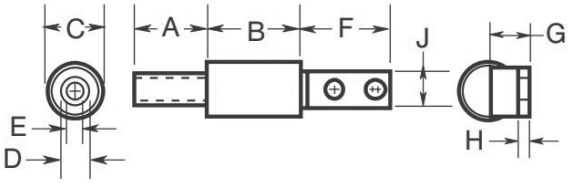


(Figure 1)



(Figure 2)

DIMENSIONS - IN (MM)											
LITTELFUSE ORDERING NUMBER	FIGURE NUMBER	COPPER CABLE SIZE	A	B	C	D	E	F	G	H	J
LFCL0004ZC1	1	4 AWG	1.25 (31.8)	2.88 (73.0)	1.06 (27.0)	0.31 (7.9)	0.25 (6.4)	—	—	—	—
LFCL0003ZC1	1	3 AWG	1.25 (31.8)	2.88 (73.0)	1.06 (27.0)	0.34 (8.7)	0.28 (7.1)	—	—	—	—
LFCL0002ZC1	1	2 AWG	1.25 (31.8)	2.88 (73.0)	1.06 (27.0)	0.44 (11.1)	0.31 (7.9)	—	—	—	—
LFCL0001ZC1	1	1 AWG	1.25 (31.8)	2.88 (73.0)	1.06 (27.0)	0.47 (11.9)	0.34 (8.7)	—	—	—	—
LFCL01/0ZC1	1	1/0 AWG	1.5 (38.1)	2.625 (66.7)	1.25 (31.8)	0.52 (13.1)	0.39 (9.9)	—	—	—	—
LFCL02/0ZC1	1	2/0 AWG	1.63 (41.3)	2.625 (66.7)	1.25 (31.8)	0.44 (14.3)	0.70 (11.1)	—	—	—	—
LFCL03/0ZC1	1	3/0 AWG	1.63 (41.3)	3.63 (92.1)	1.44 (36.5)	0.61 (15.5)	0.48 (12.3)	—	—	—	—
LFCL04/0ZC1	1	4/0 AWG	1.75 (44.5)	3.63 (92.1)	1.44 (36.5)	0.34 (17.5)	0.55 (14.0)	—	—	—	—
LFCL0250ZC1	1	250 kcmil	1.88 (47.6)	3.63 (92.1)	1.44 (36.5)	0.75 (19.0)	0.59 (15.0)	—	—	—	—
LFCL0350ZC1	1	350 kcmil	2.0 (50.8)	3.63 (92.1)	1.63 (41.3)	0.88 (22.2)	0.70 (17.9)	—	—	—	—
LFCL0500ZC1	1	500 kcmil	2.88 (73.0)	3.08 (78.2)	1.88 (47.6)	1.06 (27.0)	0.83 (21.0)	—	—	—	—
LFCL0600ZC1	1	600 kcmil	3.5 (88.9)	3.08 (78.2)	1.88 (47.6)	1.155 (29.3)	0.92 (23.4)	—	—	—	—
LFCL0750ZC1	1	750 kcmil	3.5 (88.9)	3.75 (95.25)	2.5 (63.5)	1.31 (33.3)	1.06 (27.0)	—	—	—	—
LFCL1000ZC1	1	1000 kcmil	5.0 (127.0)	3.75 (95.25)	2.5 (63.5)	1.56 (39.7)	1.22 (31.0)	—	—	—	—
LFCL0012ZC3	2	12 AWG	1.25 (31.8)	2.88 (73.0)	1.06 (27.0)	0.19 (4.8)	0.125 (3.2)	3.31 (84.1)	0.72 (18.3)	0.19 (4.8)	1.125 (28.6)
LFCL0010ZC3	2	10 AWG	1.25 (31.8)	2.88 (73.0)	1.06 (27.0)	0.23 (6.0)	0.14 (3.6)	3.31 (84.1)	0.72 (18.3)	0.19 (4.8)	1.125 (28.6)
LFCL0006ZC3	2	6 AWG	1.25 (31.8)	2.88 (73.0)	1.06 (27.0)	0.31 (7.9)	0.16 (4.0)	3.31 (84.1)	0.72 (18.3)	0.19 (4.8)	1.125 (28.6)
LFCL0004ZC3	2	4 AWG	1.25 (31.8)	2.88 (73.0)	1.06 (27.0)	0.31 (7.9)	0.25 (6.4)	3.31 (84.1)	0.72 (18.3)	0.19 (4.8)	1.125 (28.6)
LFCL0002ZC3	2	2 AWG	1.25 (31.8)	2.88 (73.0)	1.06 (27.0)	0.44 (11.1)	0.31 (7.9)	3.31 (84.1)	0.72 (18.3)	0.19 (4.8)	1.125 (28.6)
LFCL0001ZC3	2	1 AWG	1.25 (31.8)	2.88 (73.0)	1.06 (27.0)	0.47 (11.9)	0.34 (8.7)	3.31 (84.1)	0.72 (18.3)	0.19 (4.8)	1.125 (28.6)
LFCL01/0ZC3	2	1/0 AWG	1.5 (38.1)	2.625 (66.7)	1.25 (31.8)	0.52 (13.1)	0.39 (9.9)	3.38 (85.7)	0.88 (22.2)	0.25 (6.4)	1.125 (28.6)
LFCL02/0ZC3	2	2/0 AWG	1.63 (41.3)	2.625 (66.7)	1.25 (31.8)	0.56 (14.3)	0.44 (11.1)	3.38 (85.7)	0.88 (22.2)	0.25 (6.4)	1.125 (28.6)
LFCL03/0ZC3	2	3/0 AWG	1.63 (41.3)	3.63 (92.1)	1.44 (36.5)	0.61 (15.5)	0.48 (12.3)	3.38 (85.7)	0.97 (24.6)	0.25 (6.4)	1.125 (28.6)
LFCL04/0ZC3	2	4/0 AWG	1.75 (44.5)	3.63 (92.1)	1.44 (36.5)	0.69 (17.5)	0.55 (13.9)	3.38 (85.7)	0.97 (24.6)	0.25 (6.4)	1.125 (28.6)
LFCL0250ZC3	2	250 kcmil	1.88 (47.6)	3.63 (92.1)	1.44 (36.5)	0.75 (19.0)	0.59 (15.0)	3.38 (85.7)	0.97 (24.6)	0.25 (6.4)	1.125 (28.6)
LFCL0350ZC3	2	350 kcmil	2.0 (50.8)	3.63 (92.1)	1.63 (41.3)	0.88 (22.2)	0.70 (17.8)	3.38 (85.7)	1.06 (27.0)	0.25 (6.4)	1.125 (28.6)
LFCL0500ZC3	2	500 kcmil	2.88 (73.0)	3.08 (78.2)	1.88 (47.6)	1.06 (27.0)	0.83 (21.0)	3.38 (85.7)	1.19 (30.2)	0.25 (6.4)	1.63 (41.3)
LFCL0600ZC3	2	600 kcmil	3.5 (88.9)	3.75 (95.2)	2.5 (63.5)	1.16 (29.4)	0.92 (23.4)	3.5 (88.9)	1.5 (38.1)	0.25 (6.4)	2.0 (50.8)
LFCL0750ZC3	2	750 kcmil	3.5 (88.9)	3.75 (95.2)	2.5 (63.5)	1.31 (33.3)	1.06 (27.0)	3.5 (88.9)	1.5 (38.1)	0.25 (6.4)	2.0 (50.8)

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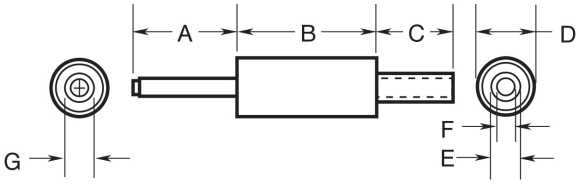
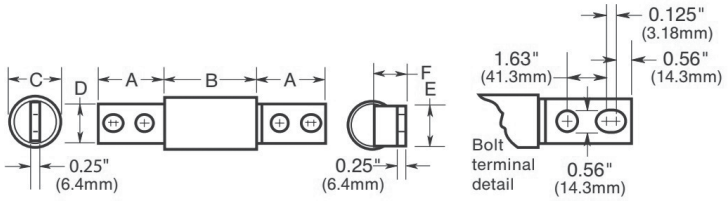
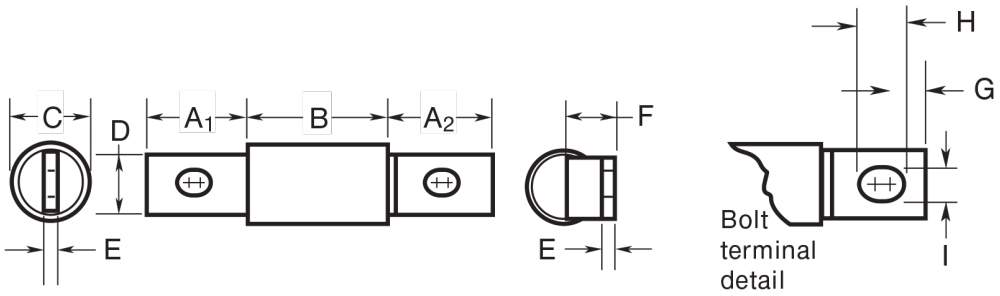


(Figure 3)



(Figure 4)

DIMENSIONS - IN (MM)												
LITTELFUSE ORDERING NUMBER	FIGURE NUMBER	COPPER CABLE SIZE	ALUMINUM CABLE SIZE	A	B	C	D	E	F	G	H	J
LFCL04/0ZC6	3	4/0 AWG	—	2.5 (63.5)	3.63 (92.1)	1.75 (44.5)	1.44 (36.5)	0.69 (17.5)	0.55 (13.9)	0.5 (12.7)	—	—
LFCL0250ZC6	3	250 kcmil	—	2.5 (63.5)	3.63 (92.1)	1.88 (47.6)	1.44 (36.5)	0.75 (19.0)	0.28 (15.1)	0.56 (14.3)	—	—
LFCL0500ZC6	3	500 kcmil	—	2.5 (63.5)	3.08 (78.2)	2.88 (73.0)	1.88 (47.6)	1.06 (27.0)	0.83 (21.0)	0.81 (20.6)	—	—
LFCL04/0ZC5	4	4/0 AWG	4/0 AWG	3.38 (85.7)	3.63 (92.1)	1.44 (36.5)	1.125 (28.6)	1.125 (28.6)	0.97 (24.6)	—	—	—
LFCL0250ZC5	4	250 kcmil	250 kcmil	3.38 (85.7)	3.63 (92.1)	1.44 (36.5)	1.125 (28.6)	1.125 (28.6)	0.97 (24.6)	—	—	—
LFCL0500ZC5	4	500 kcmil	500 kcmil	3.38 (85.7)	3.08 (78.2)	1.88 (47.6)	1.5 (38.1)	1.63 (41.3)	1.19 (30.2)	—	—	—
LFCL0750ZC5	4	750 kcmil	750 kcmil	3.5 (88.9)	3.75 (95.3)	2.5 (63.5)	2.0 (50.8)	2.0 (50.8)	1.5 (38.1)	—	—	—



(Figure 5)

DIMENSIONS - IN (MM)													
LITTELFUSE ORDERING NUMBER	FIGURE NUMBER	COPPER CABLE SIZE	ALUMINUM CABLE SIZE	A_1	A_2	B	C	D	E	F	G	H	I
LFCL-UHA	5	2/0 AWG	4/0 AWG	1.06 (27.0)	1.19 (30.2)	1.44 (36.5)	1.00 (25.4)	0.75 (19.0)	0.12 (3.2)	0.56 (14.3)	0.19 (4.8)	0.59 (15.1)	0.41 (10.3)
LFCL-UHJ-M	5	3/0 AWG	250 kcmil	1.53 (38.9)	1.75 (44.4)	1.59 (40.5)	1.50 (38.1)	1.00 (25.4)	0.25 (6.3)	0.87 (22.2)	0.34 (8.6)	0.69 (17.5)	0.56 (14.3)
LFCL-UHJ-T	5	350 kcmil	500 kcmil	1.53 (38.9)	1.75 (44.4)	1.59 (40.5)	1.50 (38.1)	1.00 (25.4)	0.25 (6.3)	0.87 (22.2)	0.34 (8.6)	0.69 (17.5)	0.56 (14.3)
LFCL-UHJ-W	5	600 kcmil	800 kcmil	1.53 (38.9)	1.75 (44.4)	1.59 (40.5)	1.50 (38.1)	1.00 (25.4)	0.25 (6.3)	0.87 (22.2)	0.34 (8.6)	0.69 (17.5)	0.56 (14.3)

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