

MASTER SENTRY SEMI-FLUSH MOUNT LOUDSPEAKER SYSTEM

Models:



(3-call master)

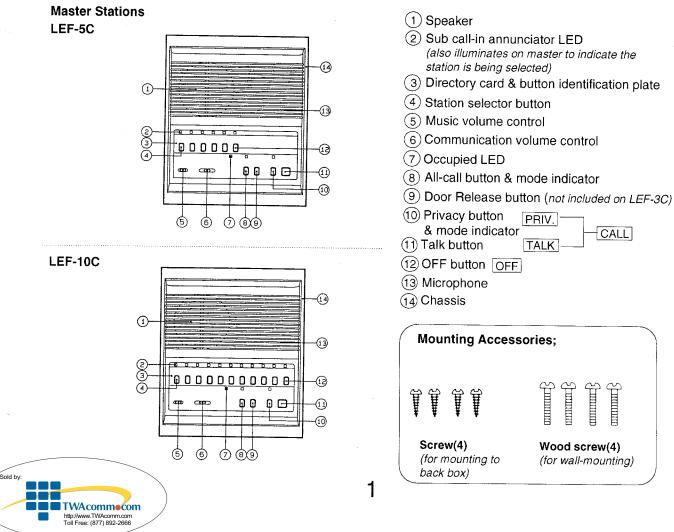
(5-call master)

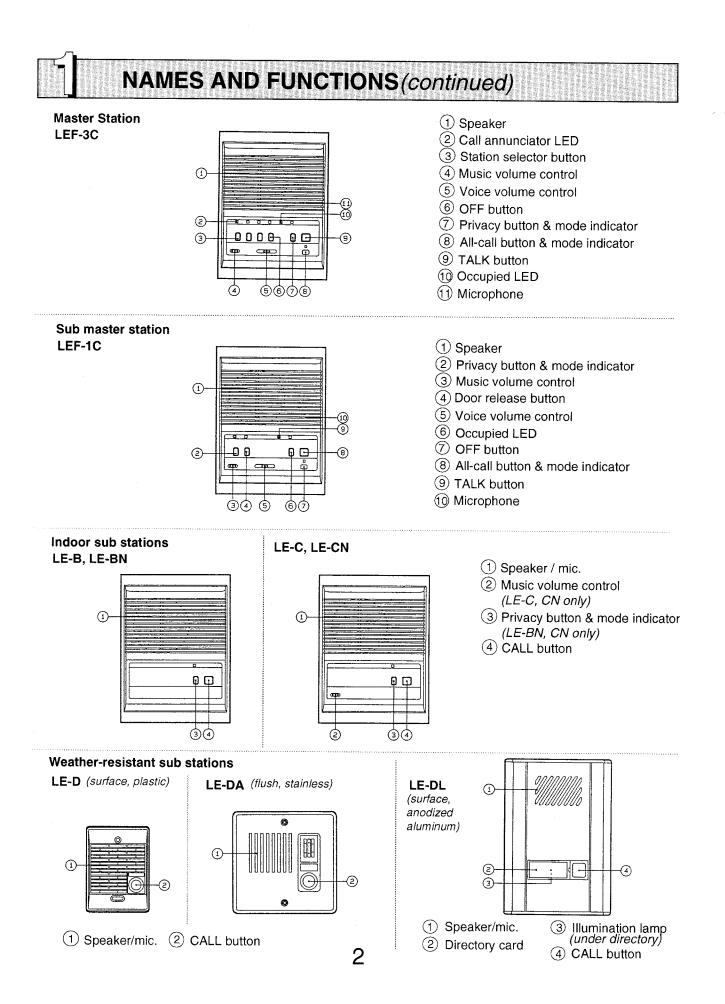
(10-call master)

INSTRUCTIONS

The LEF-C System is a semi-flush mount loudspeaker communication system, which can accomodate a communication network of up to 11 stations. By adding the MY PanTilt video system and the BGR-10A Music & Control Center, the Master Sentry is the ideal communication system for residential and commercial applications. These instructions primarily explain the LEF-C audio system, with some references to integration with the video and music systems. For more detailed information on the other components used with the system, see the instructions for those products.

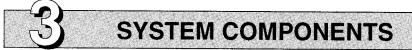






FEATURES

- 1. A wide variety of system configurations. All-master, Single-master or Intermixed systems can be created
- 2. 3-call, 5-call & 10-call masters intermixable
- 3. All-call from any LEF-C master station (when system includes BGR-10A or BG-10C)
- 4. Background music (BGR-10A Music & Control Center or BG-10C All call amp. is required)
- 5. PanTilt video can be incorporated
- 6. Overhead camera MYW-CA can be included (Locate MY-CA inside the enclosure to view a wider area)
- 7. LEF-1C sub master adds more versatility, having All-call and door answering capabilities

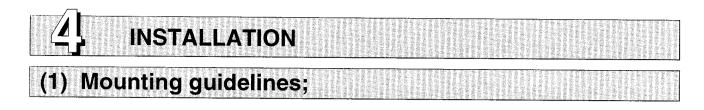


Basic Audio Communication;

* Master stations: Select a suited master station fo to form basic audio communicat Listed models are semi-flush mo	on network.	 <u>Models Available;</u> LEF-3C: 3-call LEF-5C: 5-call LEF-10C: 10-call LEF-1C: 1-call sub master 	
* Sub stations: For locations requiring only callin room stations. Privacy button an are optional. Listed models are semi-flush mo	d Music volume control	LE-B: Standard LE-BN: Privacy LE-C: Standard w/music volume control LE-CN: Privacy w/music volume control	
<u>* Door stations</u> : To receive calls from guests, etc., To be located at front door, rear door, or gate for entry access. Weather resistant.		LE-D: Surface, plastic cover LE-DA: Flush, stainless steel cover LE-DL: Surface, anodized aluminum cover	
* Power supply; To supply power for audio comm either power supply to suit the sy	unication network, select stem.	PS-12C: DC 12V, 2A. LEF units, UL/ CSA Listed or, PS-12F: DC 12V, 2.5A. When the system includes the BG-10C	

Optional functions; Video and Music Center

* For video entry security system; Max. 3 doors To incorporate video for entry security, use 1- or 3-camera adaptor to connect to PanTilt MY video systems.	MYW-P1L: 1-camera adaptor MYW-P3L: 3-camera adaptor MYH-CUB: Semi-flush video monitor MY-CA: PanTilt video door station, surface, plastic cover MY-DC: Semi-flush mount, plastic cover MY-DG: Semi-flush mount, metal cover PS-18C: Power supply for video
* All Call, Door Chime, and Music	BGR-10A: Music Center w/AllCall & Chime
distribution:	PS-24C: Power supply for BGR-10A,
To receive radio, have the All Call feature, and a chime	DC24V, 1A. UL/CSA Listed
from the door station(s), include either the BGR-10A or the	BG-10C: All Call & Chime Adaptor
BG-10C (with related power supplies).	PS-12F: Power supply for BG-10C



- Aiphone Corporation recommends that when installing any of its communication products, the wiring must be run at a distance of at least 2 feet (60cm) from any AC wiring, fluorescent lights, or dimmer switches.
- Aiphone Corporation is not responsible for improper installations of its products which result in interference generated by AC voltage, dimmer switches, fluorescent lighting fixtures, or other similar electrical devices. If noise is induced into the intercom system from one of these sources, it must be corrected at the source by the installing party.

LEF Audio Communication System Pre-Installation: Wiring

- ① Select the proper type of wire for the system being installed. Use the maximum number of conductors for the system. Consult the following wiring information to determine how many conductors will be required for your system, and what gauge is required.
- (2) Shielded wire is recommended, but not required. It may help to minimize possible interference from outside sources. Use a multi-conductor cable with an overall shield, not twisted pairs. Run the cable in a "daisy-chained" configuration, in and out of each station in the system from beginning to end. Sub stations may be homerun to the nearest master station in the system. Door stations should be homerun to the main master station (where the BGR-10A or BG-10C is wired into the system).

Note;

Some intercom stations require the same common wires, plus individual wires for each station on the same wire run. Assure that the cable has enough conductors for every station included. When running intercom cable, maintain a distance of at least 24" from any AC wiring, fluorescent lighting, and dimmer switches. When crossing AC wires, do so at a 90° angle.

Avoid running intercom cable in the same stud space with electrical wiring, and install the intercom station on a different portion of the wall from electrical devices.

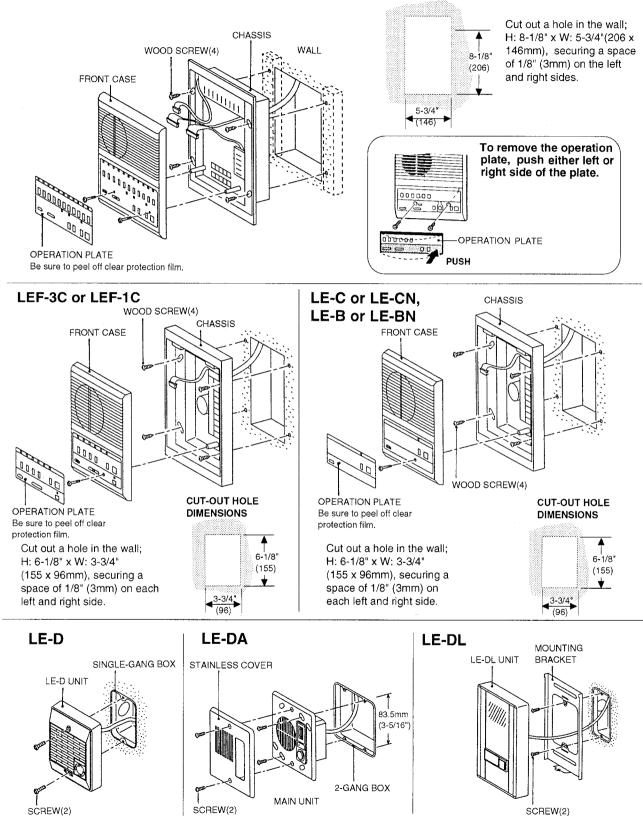
Installation

- (1) Lay out your system in advance, determining which stations will be located in each room, and what their respective station number will be. Fill in this information on your wiring diagram.
- (2) Cut the proper sized holes in the wall to semi-flush mount the intercom stations (C-version units only).
- (3) Separate the intercom from the back chassis by carefully removing the control panel cover and directory strip and loosening the screws. Lift up on the intercom portion before pulling it outward. Unplug the connectors, and store the intercom unit in the box until the wiring is completed.
- (4) Install the back chassis in the wall, and make wire connections as shown in the appropriate wiring diagram. Be sure to tighten screws securely onto the wires.
- (5) Reattach the intercom unit to the back chassis with the connectors, and place it on the back chassis from the top. Tighten the screws, and replace the directory strip and cover. Remove the plastic film over the control panel cover.
- 6 After all connections are made and intercom stations installed, test the operation of the system. Leave these instructions with the end-user for their reference. Fully train the end-user as to the functions and features of their intercom system. Advise the end-user on which rooms are assigned to each station number so they can fill in the directory card on each station.

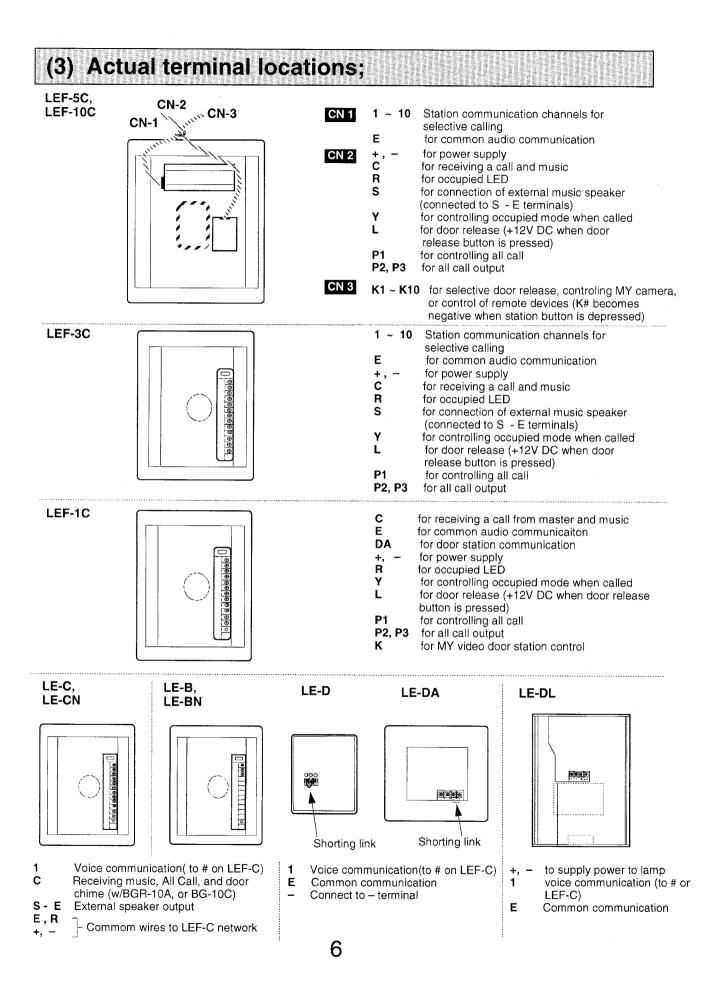
(2) Mounting instructions

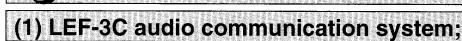
LEF-5C or LEF-10C

CUT-OUT HOLE DIMENSIONS



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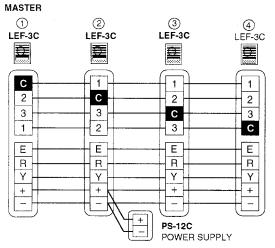




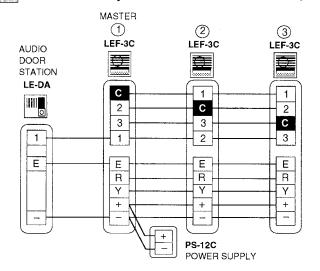
WIRING DIAGRAMS

No.	SYSTEM	MASTER	DOOR(audio)	ROOM SUB	
1	All-Master system	4			
2	with one door station	3	1		
3	Intermixed system	2	1	1	
4	Single-Master system	1	1	2	

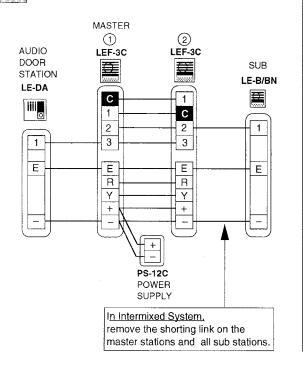




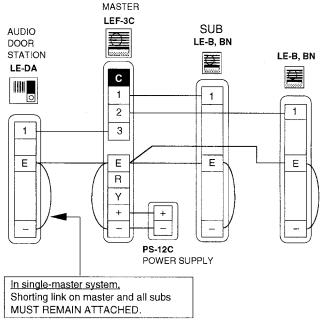
2 All-Master system w/one door station;



3 Intermixed System;



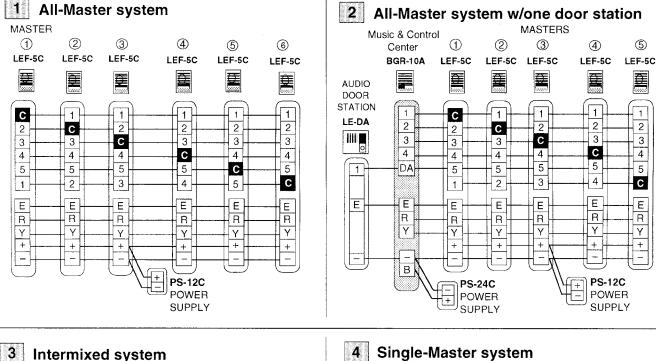
4 Single-Master System;



WIRING DIAGRAMS

2) LEF-5C audio communication system;

NO.	SYSTEM	MASTER	DOOR(audio)	ROOM SUB
1	All-Master system	6		
2	All-Masters w/ door station	5	1	
3	Intermixed system	3	1	2
4	Single-Master system	1	1	2



LE-B. BN

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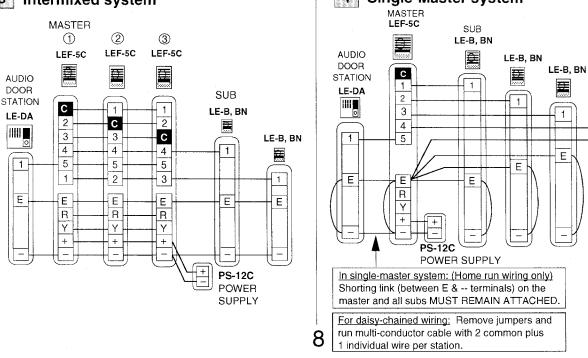
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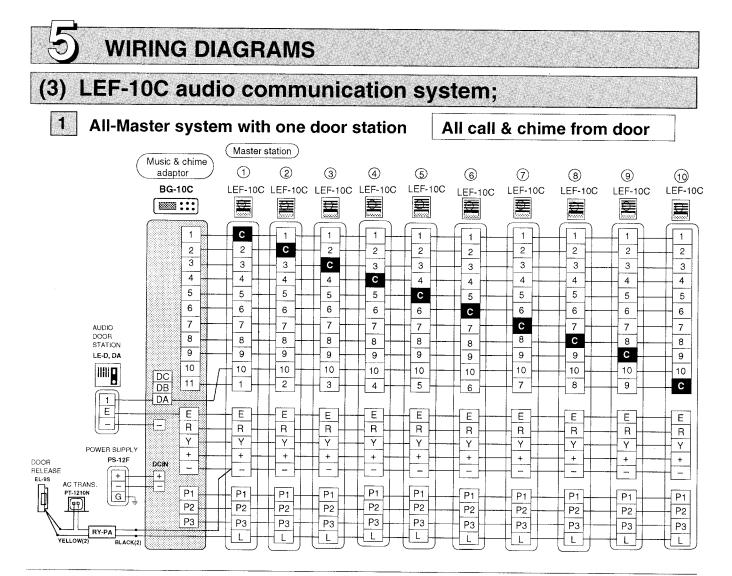
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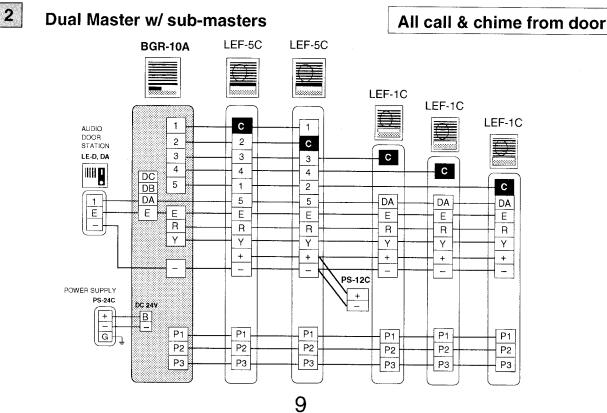
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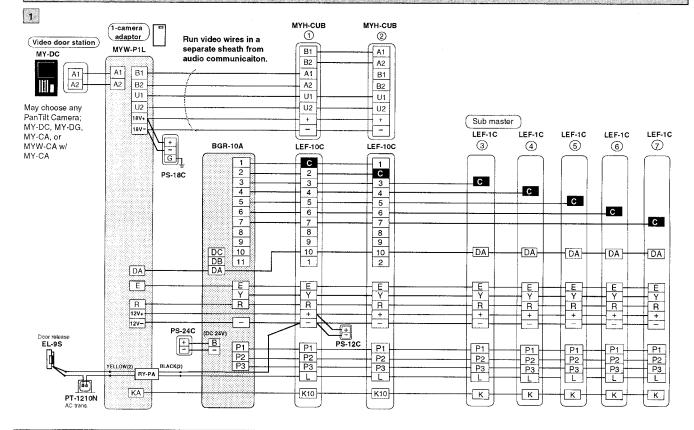




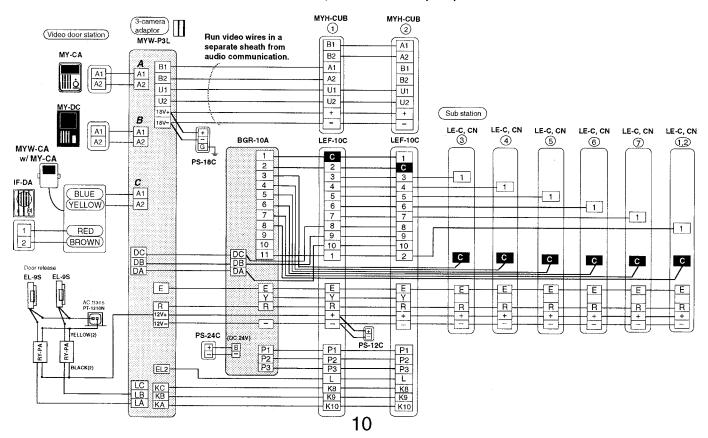
WIRING DIAGRAMS

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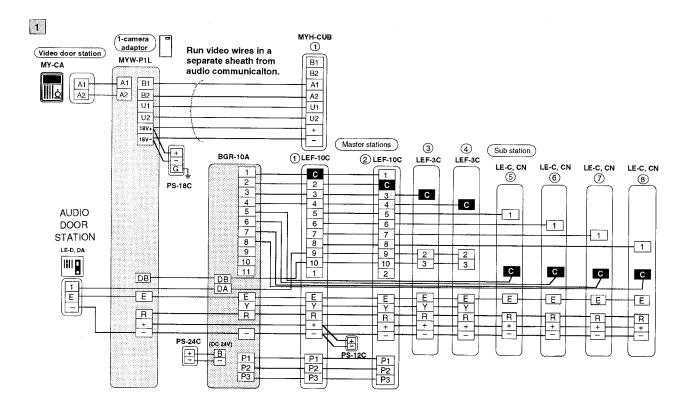
(4) 1 PanTilt video door station (MYW-P1L Adaptor)



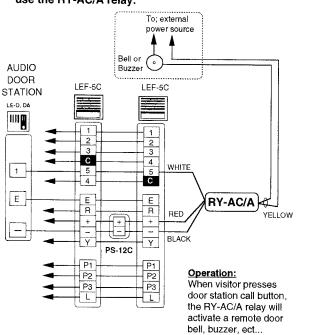
3 PanTlit video door stations (MYW-P3L Adaptor)



(5) Intermixed System - Audio and PanTilt Video



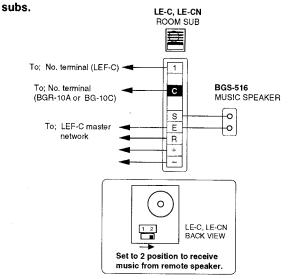
(6) RY-AC connection;



To activate a remote doorbell with the LEF-C system, use the RY-AC/A relay.

(7) Music speaker connection;

To receive music through a remote music speaker, connect 2 wires to S and E terminals on LEF-C masters and LE-C, LE-CN



When set to 2 position, music is not heard from the intercom station, but all-call announcement can be received.

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SPECIFICATIONS

* Power source:	DC 12V. Use PS-12C power supply in N. America (PS-12A standard everywhere except in N. America). PS-12F when using BG-10C.					
* Current consumption:	Max. 300mA per station					
* Power output:	Max. 800mW at 20 ohm (reception) Max. 500mW at 20 ohm (transmission)					
* Calling:	From master to master / sub; by voice or electronic mono tone From LEF-1C to master; by all call announcement					
* Communication:	Press-to-talk at calling master. Handsfree communication at door, sub and receiving master.					
* Wiring:	Master Stations: Communication only: 5 common wires plus 1 per station in the system, looped. Comm. and All Call: 8 common wires plus 1 per station in the system, looped. Comm., All Call, Door Release: 9 common wires plus 1 per station in the system, looped. Standard Sub: 2 common wires plus 1 per station on the loop LE-C/CN: 4 common wires plus 2 per station on the loop Single Master System: 2 wires per sub, homerun.					
* Wiring distance:	Between two farthest master stations or master and each sub;					
		AWG	24AWG	22AWG	20AWG	18AWG
		Distance	400'	650'	1000'	1600'
		Diameter	0.5mm	0.65mm	0.8mm	1.0mm
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* Switching contact capacity for door release	AC 110V, 1A. DC 24V, 1A (selective door release or control of external devices), on output of RY-PA relay.					
* Selector switch contact capacity: (K Terminals)	DC 12V, 1A					
* Dimensions & weight:	LEF-3C, LEF-1C; 210 x 155 x 35 (mm); 8-1/4"H x 6-1/8"W x 1-3/8"D, Approx. 470g (1.04 lbs.) LEF-5C, LEF-10C; 240 x 200 x 35 (mm); 9-7/16"H x 7-7/8"W x 1-3/8"D LEF-5C Approx. 680g (1.50 lbs.) LE-10C Approx. 750g (1.65 lbs.)					

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Aiphone warrants its products to M. one year after delivery to the ultimate user and upon which examination shall disclose to be defective and the final decision whether there is a defect in materials and/or working. This warranty shall not apply to any Aiphone product which has been subject to misuse, negro, instructions furnished, nor extended to units which have been repaired or altered outside of the factor, this warranty does not cover batteries or damage caused by batteries used in connection with the product. This warranty covers bench repairs only, and any repairs must be made at the shop or place designated in writing by Aiphone. Aiphone will not be responsible for any costs incurred involving on site service calls. THEONE CO., LTD., NAGOYA, JAPAN COMMUNICATION, BELLEVUE, WA, USA

