

EvacU^{Elite} Dual Loop EIS Line Card

1. Description

The Dual Loop EIS Line Card (LILC) occupies 1 slot in the EvacU^{Elite} Universal Rack. Each LILC supports a maximum of 40 Warden Handsets comprising of 2 loop circuits connecting a maximum of 20 Warden Handsets per loop.

Each loop circuit requires 2 core 1.5mm Unshielded Twisted cable wired in a loop configuration connecting a maximum of 20 Loop Warden Handsets over a maximum loop length of 1km. The distance between any two Warden Handsets should not exceed 500m.

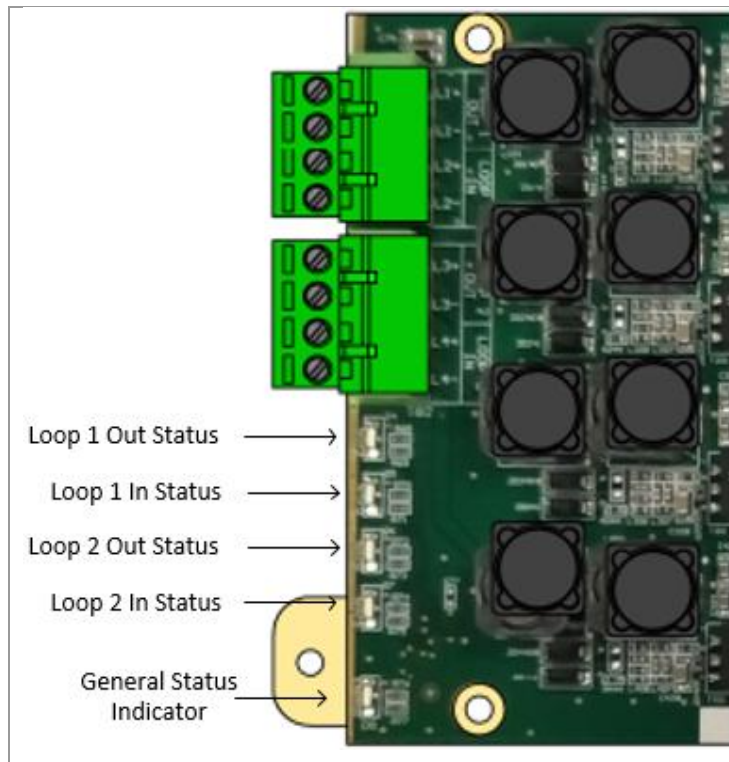
The 2 core carries both a 48Vdc supply and data packets to each of the phones hence voltage drop is a consideration over the loop distance and the quality of the data packets.

Multiple LILCs can be fitted and configured into each Universal Rack providing very efficient use of rack space to accommodate the largest of Warden Handset system requirements.

For every 40 Warden Handsets connected to the system there also needs to be **GUI capacity** to provide EICIE controls and indications for every EIS zone.

The LILC should be used in conjunction with Loop Warden Handset Item No **ASS63LWIPS**. See page 3.

When a Warden Handset is installed in a lift application Ampac recommends using a Radial circuit connection using the 6350-ILC Card using Warden Handset 'ASS63WIPS'.



Loop Status Indicator

AMBER: Fault – short, open, overload

RED: power is present

In redundant mode – only the Out port will be active under normal conditions.

General Status Indicator

OFF: cards have no power or processor is fault

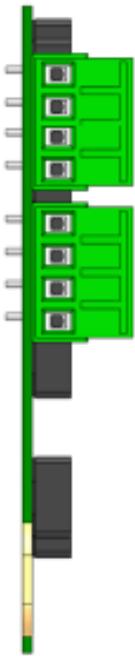
FLASHING GREEN: board is operating, no faults.

FLASHING AMBER: board has a fault condition.

STEADY AMBER: Not receiving commands from the Distribution CPU

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2. Connections:

	<table border="1"> <tr><td>LOOP 1 OUT +</td><td>1</td></tr> <tr><td>LOOP 1 OUT -</td><td>2</td></tr> <tr><td>LOOP 1 IN +</td><td>3</td></tr> <tr><td>LOOP 1 IN -</td><td>4</td></tr> </table> <table border="1"> <tr><td>LOOP 2 OUT +</td><td>1</td></tr> <tr><td>LOOP 2 OUT -</td><td>2</td></tr> <tr><td>LOOP 2 IN +</td><td>3</td></tr> <tr><td>LOOP 2 IN -</td><td>4</td></tr> </table>	LOOP 1 OUT +	1	LOOP 1 OUT -	2	LOOP 1 IN +	3	LOOP 1 IN -	4	LOOP 2 OUT +	1	LOOP 2 OUT -	2	LOOP 2 IN +	3	LOOP 2 IN -	4
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LOOP1/2 IN/OUT	Connect to Ampac EvacU^{ELITE} Loop Handsets. One Ampac MCP can be connected to each handset input. Maximum of 20 addressable handsets per loop. Maximum loop length 1000m. Cable size recommended 2 core 1.5mm² Unshielded Twisted																

Field Wiring - Use Ferrite on LILC: One MIS3019 ferrite core is packed with each (6350-LILC).

The installer should connect both loops through the ferrite.

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Parameter	Detail
No. of Loop Interfaces	2
Warden Handsets per Loop	20, Item No ASS63LWIPS
MCPs per Warden Handset	1, Item No 4105-1018
Loop Length	1 km (max)
Signalling	Proprietary modulated digital over power
Loop Cabling	2 Core Unshielded Twisted 1.5mm ² (max) with minimum 8-10 twists per meter or better
Recommended Cable or Equal approved	FireSense or Electra FR-1.50-2C (8-10 twists p/m) or FR-1.50-2CX (16 twists)
Max Distance Between Warden Handsets	500m
Shorter Loop distances <400m	0.75mm cable is suitable for short loop distances less than 400m
No. of Racks Slots	1
Current Consumption	0.050 Amps (quiescent, no phones connected), 0.360 Amps (20 phones connected to 1 loop), 0.650 Amps (40 phones - 20 phones connected to 2 loops)
Important Cabling Note	Use of a screened & twisted 1.5mm cable will significantly reduce the loop distance capacity due to increased capacitance. (480m as tested)

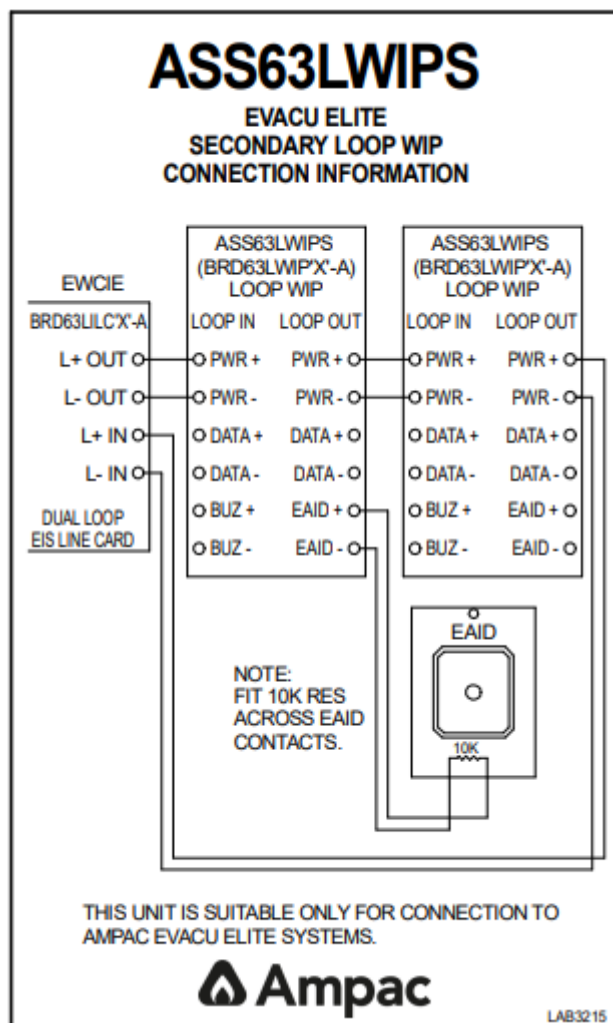
3. Installation

- Turn power OFF to the Universal Rack. Use the **EWCI E Power Switch** on the Primary PSU.
- Observing anti-static precautions, install the card in the panel.
- Ensure that the slot used in the panel is configured as LILC.
- Ensure the correct quantity of loop Warden Handsets are configured on each loop interface.
- Ensure the EIS Zone descriptors are all configured including the Master Warden Handset.
- Use the Ferrite provided. Connect the field cables (both loops) through into the 8 connectors.
- Fit all the cards into the universal rack slots correctly.
- Fit the rack cover plates which prevent dislodgement of fitted cards.
- Turn power ON to the Universal Rack. Use the **EWCI E Power Switch** on the Primary PSU.
- Test the functionality.
- Use the GUI interface select Menu / Node / Rack & **Slot** screen to review the detailed LILC status.

For Items C, D & E please refer to the **Programming Manual** MAN3142

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Loop Handset Connections



Set up unique dipswitch address between 1-20 on each handset respectively.

Same applies to both loop circuits.

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