

KLCN_CA LCN A Cable Interface Converter

Honeywell 51304542-100 is the KLCN_CA cable interface converter for the LCN A path. It forms the A-side hardware connection between a node interface and Local Control Network cabling.

IDENTITY RECORD

MANUFACTURER Honeywell	FAMILY TDC 3000 Local Control Network
EXACT MODEL 51304542-100	PRIMARY DUTY LCN A-path maintenance

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REFERENCE PURPOSE

- 1 Establish the exact product identity and installed-system boundary.
- 2 Summarize manufacturer-supported technical data without transferring values from a similar model.
- 3 Provide a compact engineering path for selection, replacement and controlled commissioning.
- 4 Link verified related Apter Power product pages for adjacent family hardware.

TECHNICAL DATA

Model alias	KLCN_CA
Network path	LCN A
Function	Cable interface converter
System family	TDC 3000 LCN
Companion path	KLCN_CB / LCN B
Field connection	Installed LCN coax path

ENGINEERING NOTE

Keep the A-side cable identity distinct from B, reproduce the documented shield-grounding arrangement and confirm node traffic over the A path before redundant service is released.

TECHNICAL VERIFICATION MATRIX

Identity control	Full model marking 51304542-100 and installed execution
Host-system boundary	TDC 3000 Local Control Network
Companion hardware	LCN A coax cable / KLCN interface board
Acceptance evidence	Documented lcn a-path maintenance functional result

MANUFACTURER SOURCE RECORD

Honeywell Enhanced PLC Gateway documentation | KLCN_CA hardware identification

Functional path and compatible system elements

FUNCTIONAL PATH

- 1

Interfaces the LCN A cable path
- 2

Converts the node-side LCN cable connection
- 3

Pairs with the B-side converter
- 4

Supports dual-path LCN node communication

SYSTEM ELEMENTS

- 1

LCN A coax cable
- 2

KLCN interface board
- 3

KLCN_CB companion
- 4

Node grounding arrangement

APPLICATION BOUNDARIES

LCN A-path maintenance	Interfaces the LCN A cable path
Gateway node connection	Converts the node-side LCN cable connection
Cable-interface replacement	Pairs with the B-side converter
Dual-path network troubleshooting	Supports dual-path LCN node communication

CONTROLLED WORK SEQUENCE

1

Verify the complete 51304542-100 marking, hardware execution and assigned TDC 3000 Local Control Network position.

2

Place the process in the approved maintenance state and isolate every applicable energy source.

3

Record as-found wiring, shields, jumpers, cable tags, slot identity and diagnostics before removing 51304542-100.

4

Use ESD controls and protect keyed connectors, terminals and assemblies while handling 51304542-100.

5

Confirm the installed LCN A coax cable and KLCN interface board against approved drawings and configuration records.

6

Inspect mating hardware, terminal condition, grounding and mechanical retention before installation.

7

Restore power or network service in controlled stages; confirm status indications before functional commands.

8

Complete a documented functional test for lcn a-path maintenance and retain the as-left record.

DIAGNOSTIC DECISION GATE

If the expected response is absent, do not immediately transfer configuration or replace adjacent hardware. Recheck identity, seating, supply or network state, terminations, channel assignment and manufacturer diagnostics; then repeat the controlled test.

Related family pages, engineer FAQ and source record

Related TDC 3000 Local Control Network products on Apter Power

MODEL	SERIES / SYSTEM ROLE	APTER POWER PAGE
51304544-100	Companion KLCN_CB LCN B cable interface	Open product page
51304511-100	NIM modem I/O board for the PNI I/O position	Open product page
51304511-200	CE-compliant NIM modem I/O board	Open product page
K2LCN-8	TPS node processor board with LCN interface	Open product page
51304540-200	EC-compatible LCNE2 LCN extender board	Open product page

ENGINEER FAQ

Q1	What must be matched before installation?	Match the full 51304542-100 marking, revision or execution, assigned position and installed companion hardware.
Q2	What should be isolated first?	Use the site's approved maintenance state and isolate the energy sources serving LCN A coax cable and KLCN interface board.
Q3	What as-found record is required?	Record terminal identity, polarity, shields, jumpers, cable tags, configuration and diagnostic status.
Q4	Which compatibility check is mandatory?	Compare the TDC 3000 Local Control Network slot, interface, companion hardware and wiring scheme with approved project documentation.
Q5	How should commissioning begin?	Begin with visual and continuity checks, then restore service in stages and observe normal status indications.
Q6	How should the assigned function be proved?	Use a controlled test for lcn a-path maintenance while required interlocks and process safeguards remain effective.
Q7	What should be checked after an abnormal result?	Recheck seating, terminations, supply or network condition, channel assignment and manufacturer diagnostics before further replacement.
Q8	What evidence should be retained?	Retain the 51304542-100 identity, as-left wiring/configuration, final diagnostics and functional-test result.

MANUFACTURER SOURCE RECORD

Honeywell Enhanced PLC Gateway documentation | KLCN_CA hardware identification