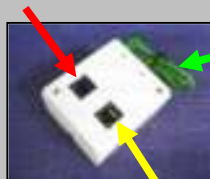# General Specs for Customized Professional CLLI

(Made-to-order versions / Non-standard CLLI / Approx. values +/-20%)

	CLLI-model or version	DATA	V-rms	V-clamp	A-ops (Normal)	A-iso (Isolating)	
1	MD-8Ccu	5V	-	-	-	3A	
2	MD-4Ccu	5V	-	-	-	3A	
3	MD-4Ccu(+12V)	5V	20V	45V	1A	3A	
4	MD-4Ccu(+24V)	5V	30V	50V	1A	3A	
5	MD-4Ccu(12V)	-	20V	45V	1A	3A	
6	MD-4Ccu(24V)	-	30V	50V	1A	3A	
7	MD-4Ccu(CB-36V)	36V	40V	80v	1A	3A	
8	MD-4Ccu(CB-24V)	24V	30V	50V	1A	3A	
9	MD-4Ccu(CB-12V)	12V	20V	45V	1A	3A	
10	DCJ-cu(12V-2A)	-	20V	45V	2A	5A	
11	DCJ-cu(12V-1A)	-	20V	45V	1A	3A	
12	DCJ-cu(24V-1A)	-	30V	50V	1A	3A	
13	DCJ-cu(24V-2A)	-	30V	50V	2A	5A	
14	DCJ-cu(DATA)	5V	-	-	-	3A	
15	MD-SC3C-cu(xV-10A)	-	-	-	10A	15A	Optional
16	MD-SC3Ccu	-	275V	430V	2A	4A	Optional

Applications-guide

MD-8Ccu

- Each core (1 to 8) is DATA-compatible at 5V to EARTH
- Clamping-voltage: ~10V to EARTH
- May be used to protect at RS-232 or RS-485 with suitable conversions (Technical know-how needed)

Connect green-wire to EARTH-terminal at power-CLLI

Connect RJ-45 plugs from **line-cable** to **equipment-port** via this CLLI

MD-4Ccu

- Each pin (1 to 4) is DATA-compatible at 5V to EARTH
- Clamping-voltage: ~10V to EARTH
- May be used to protect at LAN or DATA cable up to 2-pairs, with suitable conversions (Technical know-how needed)

Connect EARTH-terminal to EARTH-terminal at power-CLLI

Pin-to-pin feed-through from cable to equipment-port or connections

MD-4Ccu(+12V or +24V-2A or 1A)

- Each pin (1&2) is DATA-compatible at 5V to EARTH
- Clamping-voltage: ~10V to EARTH
- Pins 3&4 are voltage-compatible to specified voltage at specified current-rating

Connect EARTH-terminal to EARTH-terminal at power-CLLI

Pin-to-pin feed-through from cable to equipment-port or connections

MD-4Ccu(12V or 24V-2A or 1A)

- Pins 1&2 / 3&4 are voltage-compatible to specified voltage at specified current
- Clamping-voltage: approx. double the operating voltage to EARTH
- Rated current is continuous-operating current. Isolations depends on rate-of-rise and duration.

Connect EARTH-terminal to EARTH-terminal at power-CLLI

Pin-to-pin feed-through from cable to equipment-port or connections

MD-4Ccu(CB-12V or 24V or 36V-1A)

- Pins 1&2 / 3&4 are DATA & voltage-compatible at specified voltage at 1A
- Clamping-voltage: approx. double the operating voltage to EARTH
- Rated current is continuous-operating current. Isolations depends on rate-of-rise and duration.

Connect EARTH-terminal to EARTH-terminal at power-CLLI

Pin-to-pin feed-through from cable to equipment-port or connections

Important:

Professional-CLLI series is made-to-order by customized SPECS & REQUESTS. Please make sure you provide sufficient info for our Tech-support engineers so that effective proposals may be generated.
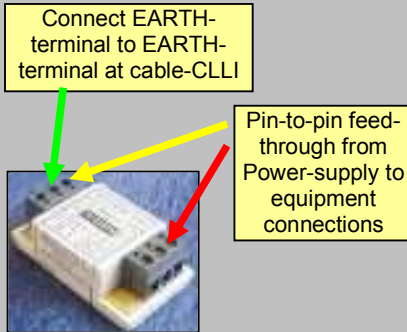**< Private-label & OEM can be considered >**
Email callab@callab.com.my or call 012-771 8225 or visit www.cal-lab.com
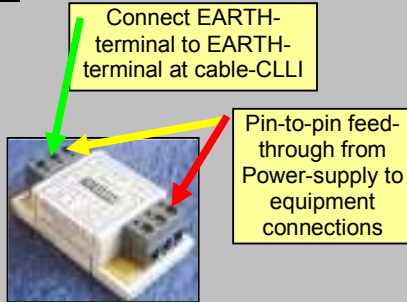
MD-SC3Ccu(240V-2A or 1A or 5A)

- Pins 1&2 are voltage-compatible to specified voltage at specified current
- Clamping-voltage: approx. double the operating voltage to EARTH
- Rated current is continuous-operating current. Isolation depends on rate-of-rise and duration.

Connect EARTH-terminal to EARTH-terminal at cable-CLLI

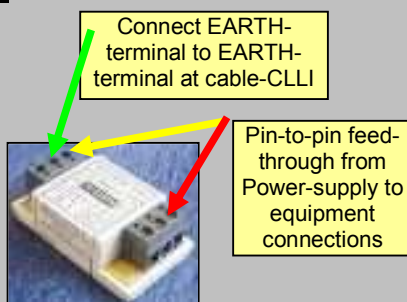Pin-to-pin feed-through from Power-supply to equipment connections

MD-SC3Ccu(12V or 24V or 36V / 10A)

- Pins 1&2 are voltage-compatible to specified voltage at specified current
- Clamping-voltage: approx. double the operating voltage to EARTH
- Rated current is continuous-operating current. Isolation depends on rate-of-rise and duration.

Connect EARTH-terminal to EARTH-terminal at cable-CLLI

Pin-to-pin feed-through from Power-supply to equipment connections

DCJ-cu(12V or 24V or 36V-2A or 1A)

- Pins 1&2 are voltage-compatible to specified voltage at specified current
- Clamping-voltage: approx. double the operating voltage to EARTH
- Rated current is continuous-operating current. Isolation depends on rate-of-rise and duration.
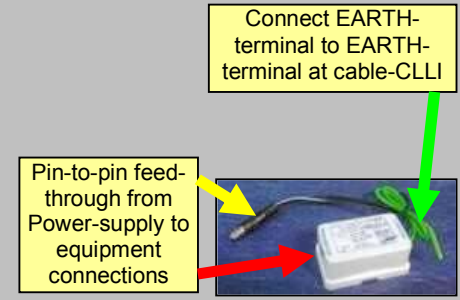
Connect EARTH-terminal to EARTH-terminal at cable-CLLI

Pin-to-pin feed-through from Power-supply to equipment connections

DCJ-cu(DATA)

- Each pin (1&2) is DATA-compatible at 5V to EARTH
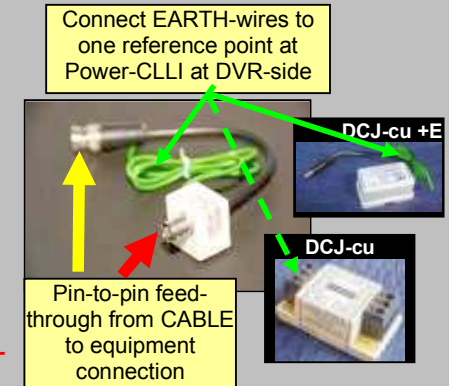- Clamping-voltage: ~10V to EARTH

DCJ-cu +E (12V or 24V / 2A) – for CCTV Camera power-side

- DC-jack input & output are voltage-compatible to specified voltage at specified current
- Clamping-voltage: approx. double the operating voltage to EARTH
- Rated current is continuous-operating current. Isolation depends on rate-of-rise and duration.

Connect EARTH-terminal to EARTH-terminal at cable-CLLI

Pin-to-pin feed-through from Power-supply to equipment connections

MD-BNC (0E) – for CCTV Camera at signal cable & at DVR

- BNC-jack input & output are DATA & voltage-compatible to camera-signal
- Clamping-voltage: approx. 10V and shorted to EARTH
- Connect all EARTH-wires to one point at CLLI for DVR power-supply
- At camera-side, short CLLI EARTH–wires together to form one safe-island (floating).
- **Where the camera needs to be grounded, use only MD-BNC (Std-version with EARTH-filter)**
- **For use with HIGH-speed DATA-cable using BNC-co-ax cable, use only MD-BNCcu(DATA)**

Connect EARTH-wires to one reference point at Power-CLLI at DVR-side

DCJ-cu +E

DCJ-cu

Pin-to-pin feed-through from CABLE to equipment connection

IMPORTANT:
This MD-BNC version has been designed to be as small as possible. As a result, it may NOT be as rugged as can be expected!!
Excessive use of force or prolonged pulling may cause the copper-lead or copper-pads or tracks on the PCB to give way.

NOTE:
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< Private-label & OEM can be considered >
Email callab@callab.com.my or call 012-771 8225 or visit www.cal-lab.com