

# 2500-TAP

## Remote I/O Network Tap



### Description

The 2500-TAP Remote I/O Network Tap is specially design for attaching trunkline and dropline sections to create 2500 Series remote I/O networks. These taps use an impedance-controlled design for highest noise immunity and include built-in termination resistance which can be easily switched in- or out- of the circuit using a toggle switch. They also include an electrical noise bleed path to chassis ground which can improve the noise immunity of your network.

### Features

- Dust and water resistant installation
- Impedance controlled design
- Built in terminating resistance
- eElectrical noise bleed system for improved noise immunity

### Installation Instructions

1. Strip back 38mm (1.5 in) of the sleeving on both ends of the cable. There are three wires exposed when the sleeving is stripped back. Two wires have color-coded insulation jackets and one (the shield) is bare.
2. At both ends of the cable, remove 0.13 in.(3.3 mm) of each color-coded insulation jacket (both ends) to expose the bare wires.

### Connecting the Trunkline or Dropline to the tap

1. Loosen three terminal screws on the terminal block.
2. Insert the stripped wires being careful to observe the proper + / - / S location.

NOTE: Ensure that the bare shield wire is not touching the metal housing of the tap.

NOTE: Throughout your installation, make connections carefully to prevent wire mismatches. Before beginning your wiring, select your color code for + and -, and be sure to follow the code in each tap connection and each RBC connection.

3. Tighten the screws on the terminal block.
4. If this tap will be an "end" tap in the network (requires a terminating resistor), be sure to flip the 3 position switch from the OFF position to either the 120ohm or 150ohm position, depending on the cable type being used.



3 Position Terminating Resistor Switch

NOTE: The terminating resistor value depends on the type of cable being used, and must match the characteristic impedance of the cable.

### Additional Product Information:

On CTI's Website you will find links to the 2500 Series Std Environmental Specifications and the UL Agency Certificates of Compliance .

**Shipping Weight:** 5.0 lbs (2.3 kg)

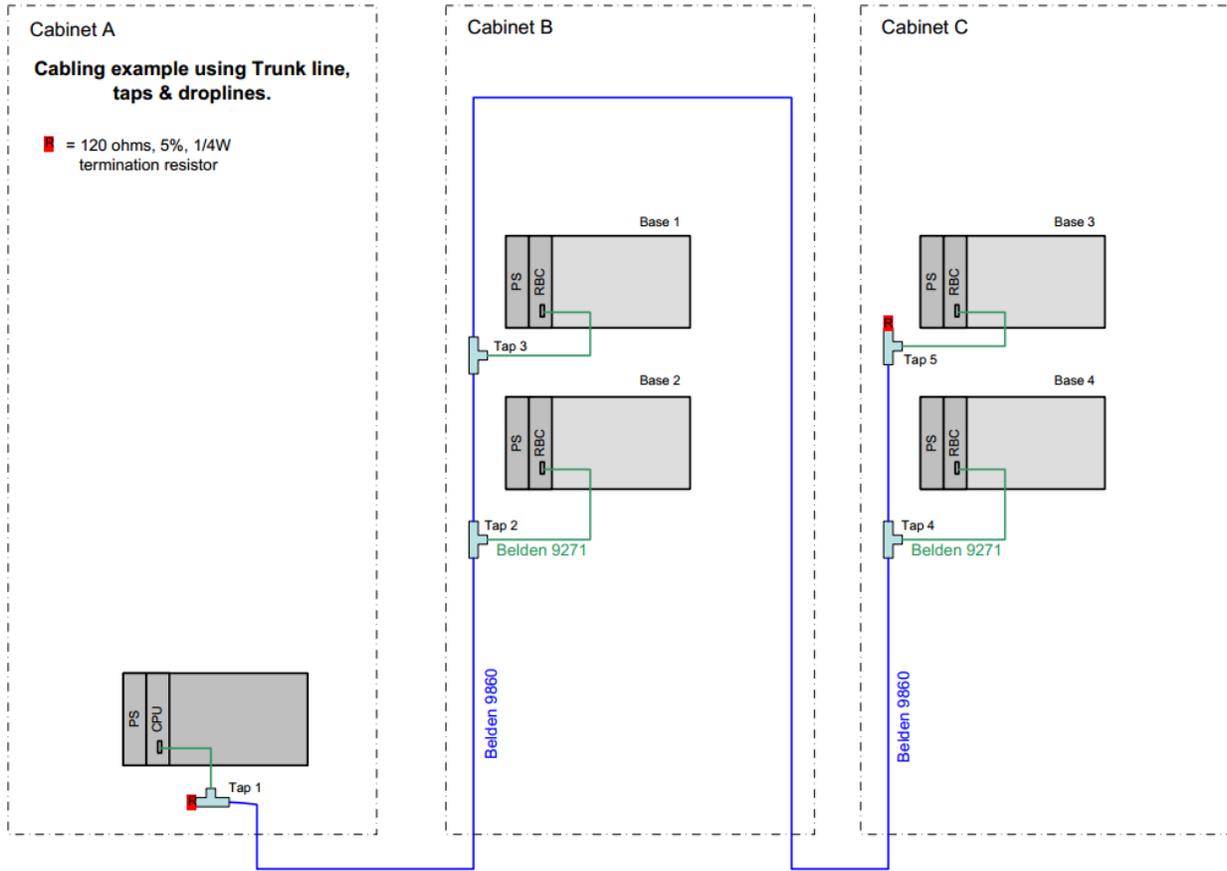


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**ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.**

# 2500-TAP RS485 Remote I/O Network Tap



**Typical System Layout using 2500-TAP**