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
- eEectrical noise bleed system for improved
- Noise immunity

Installation Instructions

Trunklines are to the left and right ports of the tap. Droplines are attached to the bottom port.

Prepare Trunkline or Dropline Cable

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 connec-tion 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 switch the ON the terminating resistor to either the 120ohm or 150ohm position, depending on the cable type being used.
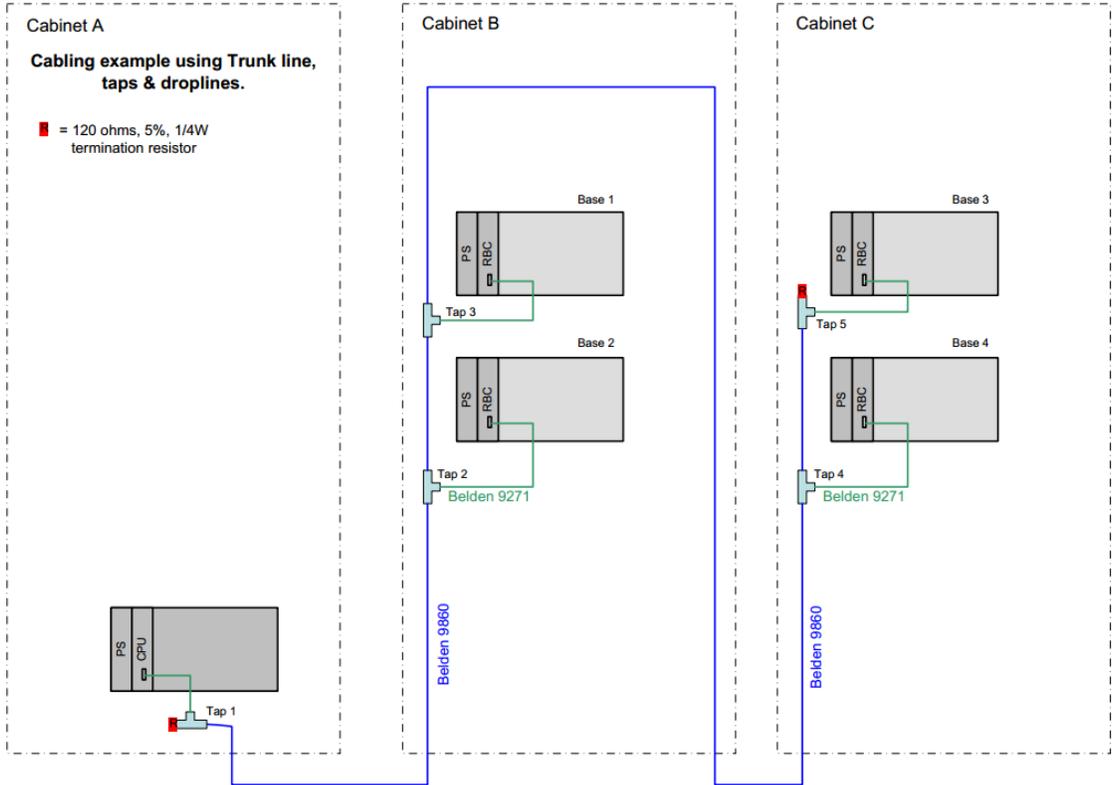
NOTE: The terminating resistor value depends on the type of cable being used, and must match the characteristic imped-ance of the cable.

Typical System Layout using 2500-TAP

2500 Series® PLC System Product Bulletin