

650S1-49 Single line indoor/outdoor
650S2-49 Dual line indoor/outdoor

650S1-SB-49 Single line w/ RJ31X interface (indoor)
650S2-SB-49 Dual line w/ RJ31X interface (indoor)

Instructions:

1. Mount the Dual Provider Switch NID near the incumbent network interface device (or distribution device). The Dual Provider Switch NID should be mounted in a location that allows for easy access. The device should be mounted away from water sources such as sprinklers, downspouts, etc.
 - Vertical Surface Mounting: This device may be mounted on any flat vertical surface using the external mounting features. Mounting the unit on a flat surface will prevent the unit from warping, which could allow water to penetrate into the interior. Use flat washers as shims to help keep the unit level and vertical on uneven surfaces. Mount the unit to the wall using two mounting screws.
 - Conduit Mounting: This device can be mounted on vertical conduit by wrapping metal straps around the external mounting features. Mount the unit in a vertically level position to prevent water from entering.
2. Open the cover. A wire entry grommet is located at the bottom of the unit for wiring. Since the grommet is designed to provide a watertight seal around the incoming wires, special care must be taken to create the correct type of hole in the grommet. If the hole is made too large, water, insects, dirt or other foreign objects may enter the unit. Remove the grommet from the base. Using a pencil point, a pair of needle nose pliers or a similar long thin object, punch a small hole in the center of the grommet – do not use a knife or cutters. A knife may cut all the way through the grommet and cutters may make a hole that is too large for a tight fit.
3. **It is highly recommended that you temporarily disconnect the incumbent telephone service line at the demarcation point before proceeding.** Bring a cable from the incumbent's NID and the premise distribution cables up to the device allowing 8" to dress wires. If an alarm device is present, a cable from the EMTA and a cable from the alarm device must be brought to the device as well (see instruction step 7). Thread the incoming cables through the hole in the grommet and return the grommet to its place in the housing. A cable tie holder is located just above the entry grommet to provide strain relief for the incoming cables. Put a cable tie through the cable tie holder and tighten it around the cables so they do not slip. Do not crush the cables.

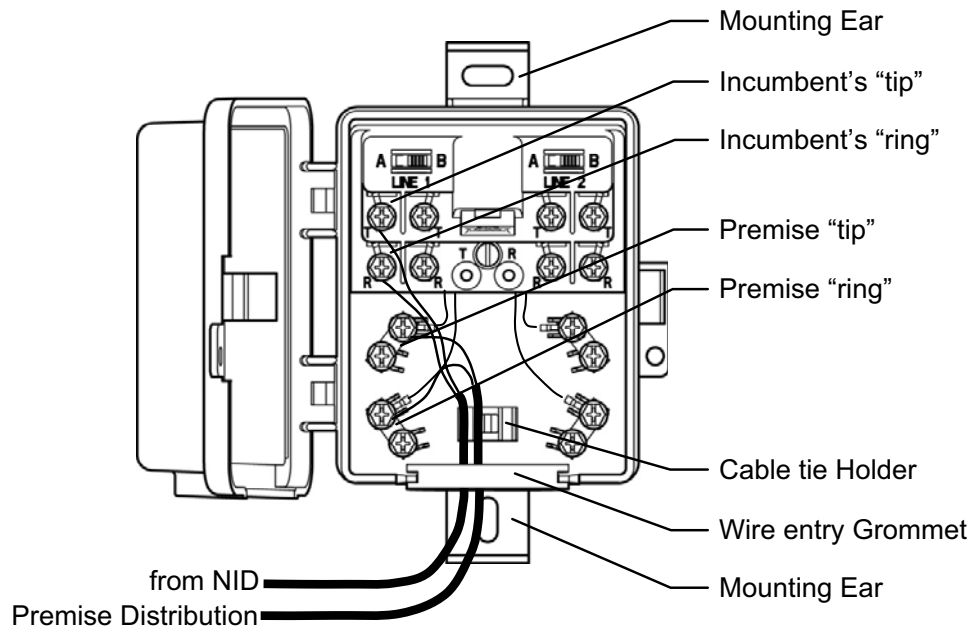
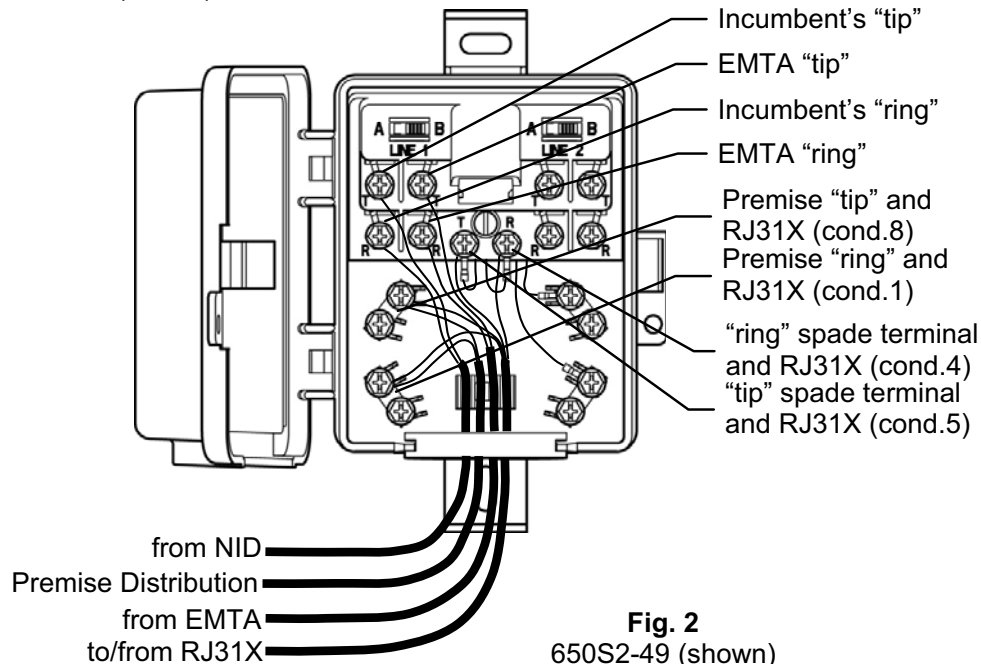


Fig. 1
650S2-SB-49

4. Strip the outer jacket from the cable exposing the insulated conductors. Strip approximately ½ inch (12.7 mm) of insulation off each of the conductors. Back the screw terminal out 1 turn. Wrap the bare wire in a clockwise direction around the screw terminal between the washers. Tighten the screw and then cut off any excess wire.
5. Terminate the tip and ring wires from the incumbent's cable to the screw terminals under the switch in the "A" position (see fig.1). The wires for line one are typically red and green (occasionally blue and white/blue). The wires for line two are typically yellow and black (occasionally orange and white/orange). Terminate the tip and ring wires from the premise distribution cables to the screw terminals in the bottom of the enclosure (see fig.1).



6. Plug the incumbent telephone service line back in at the demarcation point (if there is an alarm device present, first proceed to step 7) and set the switch to the proper position (Company B for EMTA, and Company A for incumbent). Check to see that the telephone is working properly.
7. **If an alarm device or RJ31x jack is present**, a dedicated cable needs to be run from the phone outlet that the EMTA will be plugged into. This outlet may no longer be used for a telephone. Terminate the tip and ring wires from this cable to the screw terminals under the switch in the "B" position (see fig.2). An alarm device may be plugged directly into the RJ31X jack on the 650Sx-SB product version. This product feature is intended for indoor use only. If installed outdoors, the manufacturer accepts no liability for alarm failure. If this device needs to be installed outdoors and has an alarm device wired to it, use the standard product version and follow these instructions. Remove the spade terminals from the premise distribution screw terminals (on the line intended for the alarm device) and move them to the alarm device screw terminals. From an RJ31X jack installed inside the premise, run a cable out to the device and terminate the RJ31X jack's inner tip and ring wires (conductors 5 and 4) to the alarm device screw terminals. Terminate the RJ31X jack's outer tip and ring wires (conductors 8 and 1) to the premise distribution screw terminals (see fig.2).