

## **AN100** **Structured Wiring Distribution Panel** **Installation Guide**



## Description

The AN100 Structured Wiring Distribution panel is a cost effective solution for distributing telephone, data and video signals. The compact design of the AN100 makes it perfect for installations where space is limited; such as apartments, condominiums or even single family homes.

## Features

### Telephone Distribution

- Distributes 4 incoming voice or data lines to 6 locations
- 110 style punch down block for fast terminations

### Video Distribution

- Distributes 1 incoming video signal to 4 locations
- Bi-directional for digital signals

Dimensions H 4" x W 7 3/4" x D 1"

## Installation Precautions

- ◆ Never install or work with telephone wiring during a lightning storm.
- ◆ Never install telephone jacks in wet location unless the jack is specifically designed for use in wet locations.
- ◆ Have the Electrician connect the AC outlet to branch circuit power. The connection should be in accordance with the National Electrical Code, Articles 110, 250 and 300.
- ◆ Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface or Demarcation point.

## Installing the AN100

The AN100 consists of three components that include the Installation ring, the distribution plate and the cover. When deciding where to install the AN100, the following criteria should be considered.

- Climate controlled environment
- Low traffic area
- Centrally located to keep wire runs as uniform in length as possible

Avoid areas that may be too cold or too hot, such as a garage or attic.

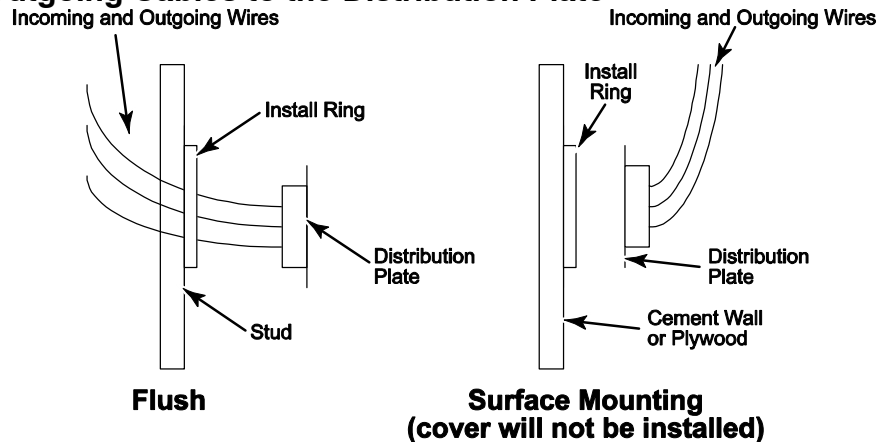
## Mounting the Install ring

### Flush Mount

The install ring is designed so that it can be mounted to a stud in a similar fashion as an electrical outlet box or mud ring. Prior to mounting the install ring, remove the distribution plate. Using two one inch wood screws, secure the install ring to the desired stud. The install ring is offset by 1/2 inch, which will allow it to mount flush with the sheetrock.

## Connecting Incoming and Outgoing Cables to the Distribution Plate

Important Note: The AN100 can be installed via either flush or surface mount. If you are flush mounting the AN100, make sure that you thread the incoming and outgoing cables through the install ring before terminating them at the distribution plate. If you are surface mounting the AN100, the wires **will not** go through the install ring. See diagram.



AN100-001-V0

## Connecting Incoming TV Signal to the Distribution Plate

The incoming coax signal (cable TV or Antenna) is connected to the input on the rear of the distribution plate. See Figure 1. This will distribute the video signal to all four outputs of the Module.

Incoming  
TV Signal

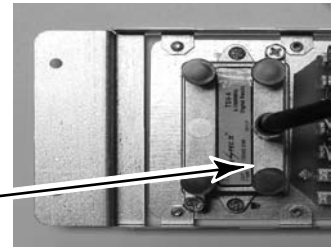


Figure 1

AN100-002-V0

### Connecting Incoming Telephone Service to the Distribution Plate

The incoming telephone service is connected to the top 110 style punch down connector labeled "INPUT". To properly terminate the twisted pair wiring, follow these procedures.

1. Trim back the outer jacket of the twisted pair cable approximately  $\frac{1}{4}$  inch. Separate the pairs from each other but don't untwist. You will notice that there are four pairs of wires. These pairs of wire are coordinated by color (white with a blue stripe and blue with a white stripe, white with an orange stripe and orange with a white stripe, etc.). You will also notice that the 110 punch down block on the rear of the distribution plate has the same color scheme. While matching the colors, lay the wire pairs out on the block to ensure that you have removed enough of the outer jacket to terminate the wire.

Incoming  
Telephone  
Service

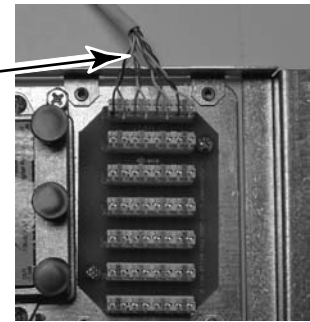


Figure 2

AN100-003-V0

**Note:** When terminating the individual pairs, it is important that you do not untwist the pairs more than  $\frac{1}{2}$  inch from the point of termination.

2. Connect the incoming telephone service to the rear of the distribution plate by "punching down" the individual pairs of wire into their color matching slots. The best way to do this is with an Impact tool. Start with the White/Blue wire and then the Blue wire. (when terminating, the white with colored stripe wire goes in the first slot and the solid color wire goes in the second slot). Be sure that all wires have been pushed into the slot and are making contact with the metal teeth. If the wires are not pushed in far enough, the metal teeth will not penetrate the PVC jacket. See Figure 2.

### Connecting Outgoing TV Runs to Distribution Plate

Once the incoming video service is connected to the rear of the distribution plate connect the coax cables, which run from the rooms, to the four (4) output connections on the front of the distribution plate. See Figure 3.

Outgoing  
TV Runs

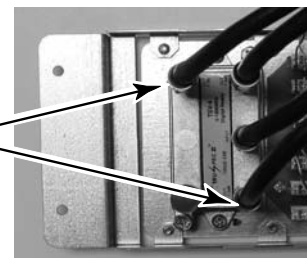


Figure 3

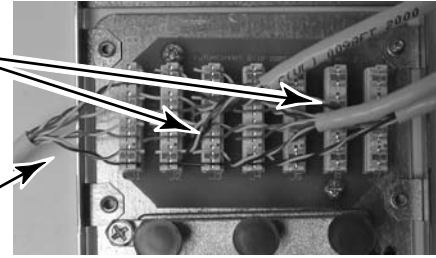
AN100-004-V0

## Connecting Outgoing Telephone Runs to Distribution Plate

Once the incoming telephone service has been connected to the rear of the distribution plate you can connect the twisted pair cables running from the rooms to the 110 style punch down block on the front of the distribution plate. Follow the same procedures as you did for connecting the incoming telephone service to the rear of the distribution plate. See Figure

Outgoing  
Telephone  
Runs

Incoming  
Telephone  
Service

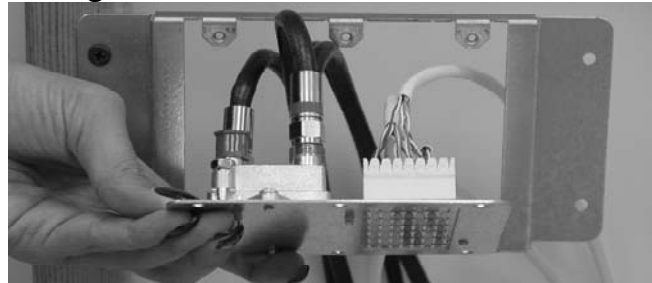


AN100-004-V0

Figure 4

## Installing the Distribution Plate in the Install Ring

Once you have connected all the incoming services and the outgoing TV and telephone cables, you can install the distribution plate into the install ring with the provided screws. Figure 5 shows a flush mount install. If you are mounting you're AN100 surface mount, the telephone and video connections would face forward and you will not install the cover.



AN100-006-V0

Figure 5

## Installing The Cover

Once the distribution plate is installed into the ring, the cover can now be placed over the ring and the plate, use the screws that are provided screws to secure the cover.

# Honeywell

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