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## SB009

# Best Wiring Practices for the Selective Call Intercom System

## I. Application/Purpose

This application note details the best wiring practices and maximum runs allowed as recommended by Legrand when wiring the Selective Call Intercom system. This bulletin is an addendum to the Selective Call Intercom Installation Guide and features several changes to the recommended guidelines.

## II. Associated Part Numbers

IC5001 – Selective Call Eight Location Distribution Module  
IC5000-xx – Selective Call Room Station  
IC5002-xx – Selective Call Door Station  
IC5003-xx – Selective Call Video Door Station  
IC5004-xx – Selective Call Patio Station

## III. Explanation

The maximum allowed Cat 5 cable run distance between the Unity/SCI Module and another unit (Module, Room, Door, Patio, or Video Door) is 330 feet, with one exception – you may have one of the following units (Door or Patio) up to 1,000 feet away from the main system. If using a Video Door station, the maximum cable run distance is 650 feet. This unit should be powered locally using the PW1030 (24v, 1.5amp) power supply.

Legrand Technical Support should be notified and approve of the exception before the wiring of said unit is run at the site location. You can contact Technical Support by calling 800-321-2343, and selecting option 1.

We are no longer including modules in the single 1,000 foot run. Maximum allowed distance between modules will be 330 feet. Best practice dictates that all modules should be located in the same enclosure, powered from the same power strip, and connected using the shortest Cat 5 connections possible.

**Remember: Cat 5 cable must be separated from 110-volt wiring by a minimum 16 inches when buried in underground conduit for longer runs.**