



## Long Distance GPS Cable Solution

If a master clock utilizes a GPS receiver to obtain accurate time, Sapling recommends placing the master clock within 75 - 300 feet (22.8 – 91.4 meters) of the GPS antenna. When a master clock with a GPS receiver is selected, it comes with a 75 foot (22.8 meters) GPS Antenna Cable as standard. If needed, Sapling offers 150 foot (45.7 meters) and 300 foot (91.4 meters) Special GPS Cables.

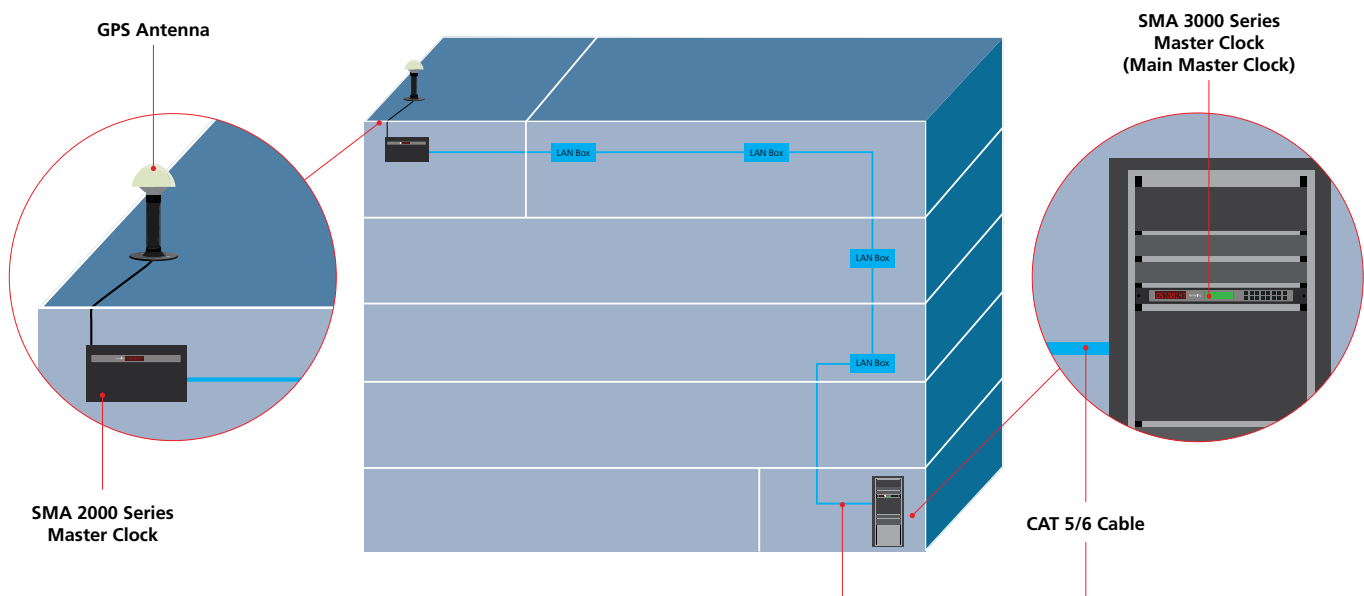
For projects that require the GPS antenna to be more than 300 feet (91.4 meters) away from a system's master clock, Sapling may be able to customize a solution. If the distance is too far, we recommend adding an additional master clock to the system so that the GPS time signal is not lost.

To do this, our standard SMA 2000 Master Clock can be implemented into the system solely to receive the GPS time signal. The SMA 2000 will be placed near the roof, in close proximity to the GPS antenna so that there is no issue with the GPS signal being lost, as there may be when using a GPS cable that is too long. Then the main master clock (whichever model it is) will receive the time from the SMA 2000 Master Clock, that will be located near to the roof, via LAN.

In this scenario the main master clock will receive the time from the SMA 2000 Master Clock (with the GPS receiver). This can be set through the master clock's built-in web interface.

This solution will allow you to place the main master clock anywhere in the facility that is connected to LAN. Additionally, any series master clock can be used as the main master clock.

Please note, LAN standard installation requirements should be followed when utilizing this solution.



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