

# SATELLITE USA

## TECHNICAL DOCUMENT

### Do you need assistance designing a system?

If you wish to receive a design example for a particular installation you are about to bid, please send an email to [gcarbone@satelliteusaelectronics.com](mailto:gcarbone@satelliteusaelectronics.com) with the following information:

How far are the cable lengths in the system?  
From dish to the distribution location?  
From distribution location to receivers?  
From one distribution location to the next?

If it is a commercial or MDU building:  
How many floors in the building?  
How many satellite drops per floor?

Any special distribution requirements?

### Calculating the dB levels...

- At the satellite dish the dB level starts at -35dBm
- Measure the distance between the satellite dish and the multiswitch. For every 100ft of RG6 cable there will be approximately an 8 dB loss. RG11 will have approximately a 5.5 dB loss.
- Each multiswitch will provide either a gain or loss (figures can be found on the product datasheets)
- Measure the distance between the multiswitch and the receivers. For every 100ft of RG6 cable there will be approximately an 8 dB loss. RG11 will have approximately a 5.5 dB loss.

**At all time the dB level must stay above -55dBm**  
**At the receiver the dB level must fall between -25dB and -55dB**