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Overcoming Distance Limitations in A/V Cabling:
The length of the cabling system is an important consideration of any A/V cable install. If the distance from the source device to the display is longer than the limitation of the cabling signal, then a signal booster may be required. Below is a list of common A/V signal types and their length limitations.

Official Length Limitations: These standards have been defined by industry associations.

DisplayPort 49 ft.

DVI Digital 16.5 ft.

Unofficial Length Limitations: These signaling methods do not have an official defined maximum length. These listed limitations are based on common experience. Since your application may allow for a longer cable run or shorter distance, use this as a guideline. Individual cable manufcacturers may specify a maximum cable length. It is generally best to use as short of a cable as you can.

Audio (line level) 150 ft.

HDMI 16.5 ft.

Audio (speaker level) 500 ft.

Modulated RF (CATV, SATV) 150 ft.

Audio (digital coax) 50 ft.

S-Video 150 ft.

Audio (digital optical) 16.5 ft.

VGA (laptop output) 35-50 ft.

Component Video 150 ft.

VGA (desktop output) 75-150 ft.

Composite Video 150 ft.