

VOLTAGE DROP CALCULATIONS

FCPS2

Nathan Clifford School
Portland, ME

Circuit 8

Amperage 1.06
Length of Run 146

Voltage Drop **3.39%**

VDC Applied **19.59**

Circuit 9

Amperage 1.55
Length of Run 188

Voltage Drop **6.38%**

VDC Applied **18.87**

Circuit 10

Amperage 1.84
Length of Run 205

Voltage Drop **8.26%**

VDC Applied **18.42**

Circuit 11

Amperage 1.34
Length of Run 210

Voltage Drop **6.16%**

VDC Applied **18.92**

Voltage Drop Parameters:

16 VDC = Minimum Power to any Appliance

4.4 VDC = Maximum Permissible Voltage Drop in Wiring System

20.4 VDC = Reduced Battery Potential at End of Life