

VOLTAGE DROP CALCULATIONS

FACP

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Circuit 1

Amperage 1.01
Length of Run 176

Voltage Drop **3.89%**

VDC Applied **19.47**

Circuit 2

Amperage 1.05
Length of Run 204

Voltage Drop **4.69%**

VDC Applied **19.27**

Circuit 3

Amperage 1.06
Length of Run 205

Voltage Drop **4.76%**

VDC Applied **19.26**

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