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16 of the Most Common Electrical Problems and Solutions ...

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Answer 1: b: 1.5%. Solution: Apply the formula for voltage drop: $D = (2 \times (W - 1) - 1 \times (R \times F / 100 + X \times \text{SIN}(\text{ACOS}(F / 100))) \times L \times S) / (10 \times V \times 2)$ Where: D = Voltage drop as a percentage of the circuit voltage (V) W= Number of wires in the circuit = 2 (for single phase)

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