

Voltage drop estimate

Single-phase: $VD = 2 \times K \times I \times L \div CM$ ($K \approx 12.9$ Cu, 21.2 Al).

Circuit	Volts	Amps	One-way length (ft)	K	Circular mils	Voltage drop	% drop
Garage sub-feed	240	40	120	12.9	26,240	4.72	1.97