

NAC Circuit Voltage Drop Calculation

Project Name	POPPY'S FISH SHACK		
Date	2/19/2013		
Circuit Number	2		
Area Covered	2ND FLOOR		
NAC Source Alarm Voltage	20.4	Wire Gauge 14	Resistance Per MFt Cable 5.84
Minimum Device Voltage	16		
Distance to first appliance	50		
Total Circuit Current	0.933		

Wire Gauge for balance of circuit	14	5.84
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Circuit is within limits					
	Device Current	Distance from previous device	Voltage at Device	Drop from source	Percent Drop
Appliance 1	0.064		20.13	0.27	1.3%
Appliance 2	0.195	45	19.90	0.50	2.5%
Appliance 3	0.078	15	19.84	0.56	2.7%
Appliance 4	0.195	40	19.70	0.70	3.4%
Appliance 5	0.195	40	19.61	0.79	3.9%
Appliance 6	0.064	25	19.58	0.82	4.0%
Appliance 7	0.064	20	19.56	0.84	4.1%
Appliance 8	0.078	15	19.55	0.85	4.1%
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