

Long Leash PoDL

HEATH STEWART

ANALOG DEVICES



- ▶ Present available power calculation results for 1km 10SPE
 - 14 AWG
 - 18 AWG
- ▶ At 100m
 - 25 AWG
- ▶ Note: at given Ohms/m, delivered power scales with length
 - Eg
 - Power @ 50m is 2x power @ 100m

14 AWG @ 1km

	V	I	R	Ppd
12U	5.6	78	21.6	0.305
12R	14.4	200	21.6	2.016
24U	11.7	163	21.6	1.331
24R	26	361	21.6	6.572
48R	48	667	21.6	22.400
*30% of power allocated to cord IR drop				

18 AWG @ 1km

	V	I	R	Ppd
12U	5.6	32	52.6	0.125
12R	14.4	82	52.6	0.828
24U	11.7	67	52.6	0.547
24R	26	148	52.6	2.699
48R	48	274	52.6	9.198
*30% of power allocated to cord IR drop				

25 Ohms

	V	I	R	Ppd
12U	5.6	67	25	0.263
12R	14.4	173	25	1.742
24U	11.7	140	25	1.150
24R	26	312	25	5.678
48R	48	576	25	19.354
*30% of power allocated to cord IR drop				