

Power Distances for CCTV Pass-Thru Balun (500022)

Voltage	Pcam (W)	Vcam ¹ min (V)	Dist Spec ² max (Feet)	Dist Spec ² max (m)	Vcam ³ max (V)	Dist Spec ² min (Feet)	Dist Spec ² min (m)
12 VDC/ AC	5	10.80	86	28			
12VDC/ AC camera	10	10.80	43	14			
	20	10.80	22	7			
	30	10.80	14	5			
	40	10.80	11	4			
	50	10.80	9	3			
24 VAC	5	21.60	346	113			
24VAC camera	10	21.60	173	57			
	20	21.60	86	28			
	30	21.60	58	19			
	40	21.60	43	14			
	50	21.60	35	11			
28 VAC	5	21.60	922	302	26.4	230	76
24VAC camera	10	21.60	461	151	26.4	115	38
	20	21.60	230	76	26.4	58	19
	30	21.60	154	50	26.4	38	13
	40	21.60	115	38	26.4	29	9
	50	21.60	92	30	26.4	23	8
36 VAC	5	32.40	778	255			
36VAC camera	10	32.40	389	128			
	20	32.40	194	64			
	30	32.40	130	43			
	40	32.40	97	32			
	50	32.40	78	26			
48 VAC	5	43.20	1382	454			
48VAC camera	10	43.20	691	227			
	20	43.20	346	113			
	30	43.20	230	76			
	40	43.20	173	57			
	50	43.20	138	45			

1. Distances are specified for temperature around 20 to 30°C
2. Maximum distances allowing for 10% loss of Power Supply voltage. For 28VAC, a 24VAC camera was used.
3. Distances specified are 90% of distances calculated.
4. Minimum distances allowing for 10% overload of Power Supply voltage. (26.4VAC)
5. If 22AWG gage wire is used, there would be an increase in distance of approximately 56% proportional to the increase in cross-sectional area of the wire.

Power Distances for CCTV Power-Thru Balun (500024)

Voltage	Pcam (W)	Vcam ¹ min (V)	Dist Spec ² max (Feet)	Dist Spec ² max (m)	Vcam ³ max (V)	Dist Spec ² min (Feet)	Dist Spec ² min (m)
12 VDC/ AC	5	10.80	130	43			
12VDC AC camera	10	10.80	65	21			
	20	10.80	32	11			
	30	10.80	22	7			
	40	10.80	16	5			
	50	10.80	13	4			
24 VAC	5	21.60	518	170			
24VAC camera	10	21.60	259	85			
	20	21.60	130	43			
	30	21.60	86	28			
	40	21.60	65	21			
	50	21.60	52	17			
28 VAC	5	21.60	1382	454	26.4	346	113
24VAC camera	10	21.60	691	227	26.4	173	57
	20	21.60	346	113	26.4	86	28
	30	21.60	230	76	26.4	58	19
	40	21.60	173	57	26.4	43	14
	50	21.60	138	45	26.4	35	11
36 VAC	5	32.40	1166	383			
36VAC camera	10	32.40	583	191			
	20	32.40	292	96			
	30	32.40	194	64			
	40	32.40	146	48			
	50	32.40	117	38			
48 VAC	5	43.20	2074	680			
48VAC camera	10	43.20	1037	340			
	20	43.20	518	170			
	30	43.20	346	113			
	40	43.20	259	85			
	50	43.20	207	68			

1. Distances are specified for temperature around 20 to 30°C
2. Maximum distances allowing for 10% loss of Power Supply voltage. For 28VAC, a 24VAC camera was used.
3. Distances specified are 90% of distances calculated.
4. Minimum distances allowing for 10% overload of Power Supply voltage. (26.4VAC)
5. If 22AWG gage wire is used, there would be an increase in distance of approximately 56%, proportional to the increase in cross-sectional area of the wire.