



Camplex Corporation

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CAMPLEX PDC-340 POWER UNIT: APPROXIMATE CABLE DISTANCE CAPABILITY

The Camplex PDC-340 power unit nominally produces 54 watts of DC power. The Camplex system components require approximately 8 watts leaving about 46 watts to operate a modern camera equipped with the camera manufacturer's camera adapter, lens, and viewfinder. The PDC-340 unit also can provide power to operate the lens, viewfinder, and camera that has a VTR docked in place of the manufacturer's camera adapter; or it can power the lens, viewfinder, and camera portion of a one-piece camcorder style camera.

The PDC unit alone does not produce sufficient power to operate a VTR that is part of the camera configuration. However, in some instances, the unit can be operated in parallel with the camera's battery to provide power to operate the VTR as well as camera, lens, and viewfinder. If you desire additional information regarding this capability please contact your Camplex sales representative.

The Camplex PDC-340 power unit overcomes 8.25 Ohms of DC Resistance. The distance that a 75 Ohm coaxial or triaxial cable can deliver Camplex power at full load can be determined by dividing Camplex's 8.25 Ohms by the total DCR of the cable measured in Ohms. Total DCR (loop resistance) can be measured with an Ohmmeter, or it can be calculated by adding together the cable manufacturer's DCR specifications for the cable's center conductor and shield.

The distance that Camplex power can be delivered along a 75 Ohm coaxial or triaxial multiplexing cable is affected by several factors: 1) the power demand of camera, lens, and viewfinder (the greater the demand, the shorter the distance); 2) the length and total DCR of the cable (the lower the DCR, the greater the distance); 3) the amount of operational heat build-up in the cable (greater the heat, the shorter the distance); 4) the quality of the cable and connectors; 5) the proper set-up of the Camplex system. With these factors in mind, here are approximate distances +/- 10% that these cables can deliver Camplex power:

75 OHM COAX CABLE	TOTAL DCR 1000 FT.(305M)	* APPROXIMATE POWER DISTANCES		
		54 WATT LOAD	40 WATT LOAD	30 WATT LOAD
Belden RG-59 #8241	49.7 Ohms	165ft/50m	220ft/67m	235ft/71m
Belden RG-59 #9259	17.6 Ohms	469ft/143m	625ft/190m	675ft/205m
Clark Camplex #1	16.0 Ohms	516ft/147m	686ft/209m	740ft/226m
Belden #8281	11.0 Ohms	750ft/228m	1,000ft/305m	1,080ft/329m
Belden #8281F	13.5 Ohms	611ft/186m	814ft/248m	880ft/268m
Clark's #CV 752	11.1 Ohms	743ft/227m	988ft/301m	1,070ft/326m
Belden RG-11 #8213	3.7 Ohms	2,230ft/680m	2,973ft/906m	3,211ft/979m
Belden RG-11 #9292	5.6 Ohms	1,473ft/449m	1,964ft/599m	2,121ft/646m
Belden RG-11 #8238	7.3 Ohms	1,130ft/344m	1,506ft/459m	1,627ft/496m
Clark Camplex #2	5.6 Ohms	1,473ft/449m	1,964ft/599m	2,121ft/646m
Antec Trunk #500CA	1.68 Ohms	4,910ft/1,497m	6,547ft/1,996m	7,070ft/2,156m
Antec Trunk #625	1.07 Ohms	7,710ft/2,351m	10,280ft/2,939m	11,102ft/3,386m

*Calculations based upon the cable manufacturers' specifications measured at ambient 68 degrees F (20 C.) and are subject to change without notice.