



Electronic Products

APPLICATION - SubDrive -SOLAR

SubDrive Solar Controller - Cable Specifications

Model Series	Breaker Amps	Volts	mm ²				
			2.5	4	6	10	16
SubDrive Solar 1.1kW	15	208	38	61	92	155	245
	15	230	43	68	102	170	270
SubDrive Solar 2.2kW	30	208			46	77	123
	25	230			61	102	163

Maximum allowable wire lengths are measured between the power service entry point and the controller as a guide; these lengths have been calculated on the basis of standard TPS cabling @ 45°C being used with the SubDrive Solar installation. Franklin Electric recommends that all electrical cable selections should be specified by your electrical professional to ensure they comply with AS/NSZ3000 and National Electrical Codes and /or local codes.

Maximum Motor Cable Length (metres)	HP	kW	mm ²				
			2.5	4	6	10	16
SubDrive Solar 1.1kW	1.5	1.1	95	160	245	415	
SubDrive Solar 2.2kW	3	2.2	51	86	130	224	365

Maximum allowable wire lengths are measured between the controller and motor as a guide, these lengths have been calculated on the basis of Franklin Electric submersible cabling being used @ 45°C with the SubDrive Solar installation. Franklin Electric recommends that all electrical cable selections should be specified by your electrical professional to ensure they comply with AS/NSZ3000 and National Electrical Codes and /or local codes.

Orange circular & TPS - electrical cable is not rated for submersible use. Warranty void if used. All wiring to comply with AS/NSZ3000 and National Electrical Codes and /or local codes.

Maximum Motor Cable Length (in feet)							
AWG Copper Wire Size, (75°C Insulation)							
Drive Model	Motor HP	14	12	10	8	6	4
SD Solar 0.55kW N3	0.75	130	220	340	530	830	
Maximum Motor Cable Length (in meters)							
Square Millimeter Copper Wire Size, (75 °C Insulation)							
Drive Model	Motor KW	1.5	2.5	4	6	10	16
SD Solar 0.55KW N3	0.55	20	40	70	110	190	300

Wire Sizing Charts

Cautions:

There are many DIY (Do It Yourself) PV solar kits available which you can be self-installed. SubDrive Solar and associated equipment is not a DIY PV System and must be professionally installed.

SubDrive Solar operates at above 90 volts which requires installation by suitably qualified electricians that have been trained on solar PV installations and meet State and Territory regulations.

Any questions relating to your SubDrive Solar installations and any possible rebates can be directed back to the supplying Franklin Dealer or to your solar installer.