Auxiliary Battery	
Power	1
Ground	2

Additional components

1 x #8 (High-Amp Fuse)

1 x #9 (High-Amp Fuse Holder)

4 AWG	2.0 ft	
Auxiliary Battery:1:Power	RD	Auxiliary Battery Disconnect:1:In

Additional components

2 x #1 (5/16-3/8" Ring Terminal (4 AWG))

4 AWG	2.0 ft	
Auxiliary Battery:2:Ground	BK	Current Shunt:1:In

Additional components

2 x #1 (5/16-3/8" Ring Terminal (4 AWG))

Auxiliary Battery Disconnect		
1	In	1
2	Out	2

Current Shunt		
1	In	1
2	Out	2
3	Monitor 1	3
4	Monitor 2	4

18 AWG	5.0 ft	
Current Shunt:3:Monitor 1	YE	Battery Monitor:3:Shunt 1
Current Shunt:4:Monitor 2	BU	Battery Monitor:4:Shunt 2

Battery Monitor	
1	Power
2	Ground
3	Shunt 1
4	Shunt 2

14 AWG	5.0 ft	
Auxiliary Power Distribution System:11:Output 1 Power	RD	Battery Monitor:1:Power
Auxiliary Power Distribution System:12:Output 1 Ground	BK	Battery Monitor:2:Ground

4 AWG	5.0 ft	
Auxiliary Battery Disconnect:2:Out	RD	Auxiliary Power Distribution System:1:Auxiliary Battery Positive
Current Shunt:2:Out	BK	Auxiliary Power Distribution System:2:Auxiliary Battery Negative

Additional components

2 x #1 (5/16-3/8" Ring Terminal (4 AWG))

Start Battery	
Power	1
Ground	2

Additional components

1 x #8 (High-Amp Fuse)

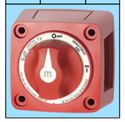
1 x #9 (High-Amp Fuse Holder)

4 AWG	2.0 ft	
Start Battery:1:Power	RD	Start Battery Disconnect:1:In

Additional components

2 x #1 (5/16-3/8" Ring Terminal (4 AWG))

Start Battery Disconnect		
1	In	1
2	Out	2



4 AWG	25.0 ft	
Start Battery Disconnect:2:Out	RD	Auxiliary Power Distribution System:3:Start Battery Positive
Start Battery:2:Ground	BK	Auxiliary Power Distribution System:4:Start Battery Negative

Additional components

2 x #1 (5/16-3/8" Ring Terminal (4 AWG))

DC-DC Charger	
Start Battery	1
Solar Power	2
Ground	3
Auxiliary Battery	4

Some DC-DC chargers require ring terminals (not shown)

4 AWG	3.0 ft	
DC-DC Charger:1:Start Battery	RD	Auxiliary Power Distribution System:5:DC-DC Start Battery
DC-DC Charger:2:Solar Power	RD	Auxiliary Power Distribution System:6:DC-DC Solar
DC-DC Charger:3:Ground	BK	Auxiliary Power Distribution System:7:DC-DC Ground
DC-DC Charger:4:Auxiliary Battery	RD	Auxiliary Power Distribution System:8:DC-DC Auxiliary Battery

Not required for DC-DC chargers with hardwired connections

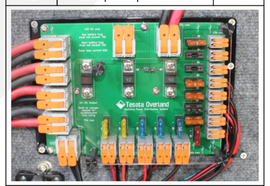
10 AWG	3.0 ft	
Solar Disconnect Switch:1:Power Out	RD	Auxiliary Power Distribution System:9:Solar Power
Solar Disconnect Switch:2:Ground Out	BK	Auxiliary Power Distribution System:10:Solar Ground

Solar Disconnect Switch	
Power Out	1
Ground Out	2
Power In	3
Ground In	4

Typically use screw terminals, no crimp required

10 AWG	20.0 ft	
Solar Disconnect Switch:3:Power In	RD	Solar Array:1:Power
Solar Disconnect Switch:4:Ground In	BK	Solar Array:2:Ground

Auxiliary Power Distribution System		
1	Auxiliary Battery Positive	1
2	Auxiliary Battery Negative	2
3	Start Battery Positive	3
4	Start Battery Negative	4
5	DC-DC Start Battery	5
6	DC-DC Solar	6
7	DC-DC Ground	7
8	DC-DC Auxiliary Battery	8
9	Solar Power	9
10	Solar Ground	10
11	Output 1 Power	11
12	Output 1 Ground	12
13	Output 3 Power	13
14	Output 3 Ground	14
15	Output 4 Power	15
16	Output 4 Ground	16
17	Output 5 Power	17
18	Output 5 Ground	18
19	Output 6 Power	19
20	Output 6 Ground	20
21	Output 7 Power	21
22	Output 7 Ground	22
23	75A Input/Output 1 Power	23
24	75A Input/Output 1 Ground	24
25	75A Input/Output 2 Power	25
26	75A Input/Output 2 Ground	26



Additional components

3 x #8 (High-Amp Fuse)

7 x #6 (Blade Fuse)

14 AWG	10.0 ft	
Auxiliary Power Distribution System:11:Output 1 Power	RD	Fridge:1:Power
Auxiliary Power Distribution System:12:Output 1 Ground	BK	Fridge:2:Ground

Fridge	
1	Power
2	Ground

14 AWG	20.0 ft	
Auxiliary Power Distribution System:13:Output 3 Power	RD	Diesel Heater:1:Power
Auxiliary Power Distribution System:14:Output 3 Ground	BK	Diesel Heater:2:Ground

Diesel Heater	
1	Power
2	Ground

14 AWG	10.0 ft	
Auxiliary Power Distribution System:15:Output 4 Power	RD	Mobile Phone Booster:1:Power
Auxiliary Power Distribution System:16:Output 4 Ground	BK	Mobile Phone Booster:2:Ground

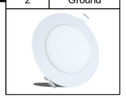
Mobile Phone Booster	
1	Power
2	Ground

14 AWG	10.0 ft	
Auxiliary Power Distribution System:17:Output 5 Power	RD	USB Chargers:1:Power
Auxiliary Power Distribution System:18:Output 5 Ground	BK	USB Chargers:2:Ground

USB Chargers	
1	Power
2	Ground

14 AWG	30.0 ft	
Auxiliary Power Distribution System:19:Output 6 Power	RD	Lights:1:Power
Auxiliary Power Distribution System:20:Output 6 Ground	BK	Lights:2:Ground

Lights	
1	Power
2	Ground



14 AWG	10.0 ft	
Auxiliary Power Distribution System:21:Output 7 Power	RD	Water Pump:1:Power
Auxiliary Power Distribution System:22:Output 7 Ground	BK	Water Pump:2:Ground

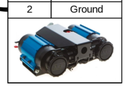
Water Pump	
1	Power
2	Ground

8 AWG	6.0 ft	
Auxiliary Power Distribution System:23:75A Input/Output 1 Power	RD	Inverter:1:Power
Auxiliary Power Distribution System:24:75A Input/Output 1 Ground	BK	Inverter:2:Ground

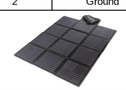
Inverter	
1	Power
2	Ground

8 AWG	6.0 ft	
Auxiliary Power Distribution System:25:75A Input/Output 2 Power	RD	Air Compressor:1:Power
Auxiliary Power Distribution System:26:75A Input/Output 2 Ground	BK	Air Compressor:2:Ground

Air Compressor	
1	Power
2	Ground



Solar Array	
1	Power
2	Ground



Additional connections, cable glands, etc are not shown and may be required

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