

Table 2-4, DC Wire Size For Increased Distance

	Minimum Recommended DC Wire Size (one way)*		
	5 ft or less	5 to 10 ft	10 to 15 ft
MS4024AE	#2/0 AWG x 2	#4/0 AWG x 2	not recommended
MS4448AE	#2/0 AWG	#4/0 AWG	#4/0 AWG x 2

* Copper wire rated with 90°C (194°F) insulation at an ambient temperature of 30°C (86°F).

2.3.3 DC Cable Connections

Do not put anything between the DC cable ring lug and the battery terminal post or the flat metal part of the inverter’s DC terminal. When connecting the DC cable to the battery or inverter DC terminals, the cable should be placed directly against the inverter or battery terminals. Incorrectly installed hardware causes a high resistance connection which could lead to poor inverter/charger performance and may melt the cable and terminal connections.

Follow figures 2-9 and 2-10 on how to connect the DC cables and stack the hardware correctly. Tighten the terminal connections from 10 to 12 ft lbf (13.6 to 16.3 Nm).

CAUTION: The DC terminal and Kep nuts are made of stainless steel which have a high likelihood of seizure. To help prevent the bolt and nut from seizing - causing the bolts to strip or snap/break-off - the use of anti-seize lubricant is highly recommended.

Info: If antioxidant grease or spray is used, apply it after all the connections have been made and are properly tighten.

Info: A 1/2-inch wrench or socket is used to tighten the 5/16 SAE Kep nuts.

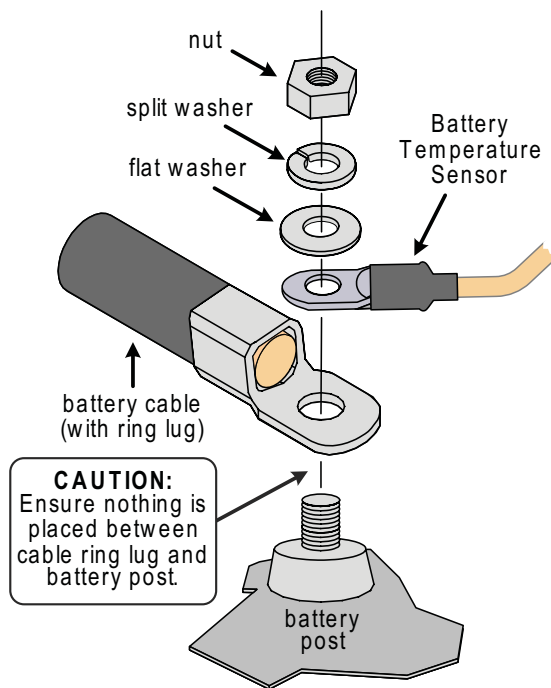


Figure 2-9, Battery Hardware Installation

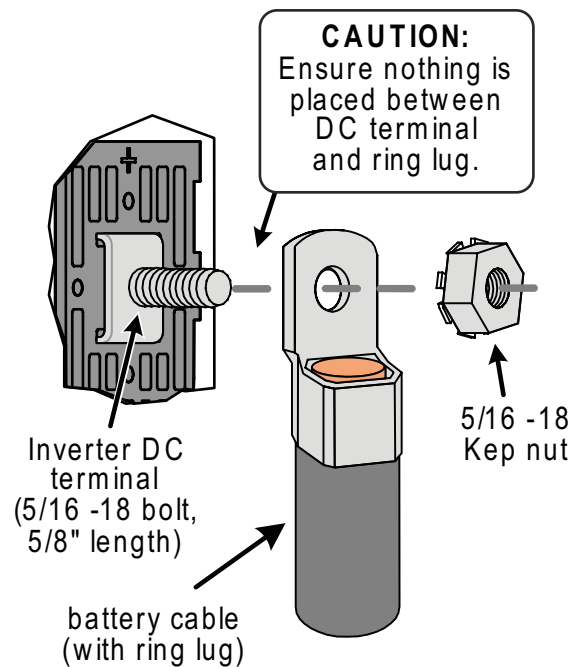


Figure 2-10, Inverter DC Hardware Installation