

## Whipping Woodhead Cable Grips

2014-11-27

It was identified that a certain combination of Molex Woodhead cable grips (35970SS) and Cortland 0.270 inch diameter cable (EV804011A) can slip relative to each other when tension is applied between the axes of both the cable and the grip. This issue has only appeared to date in one instance of a specific cable grip with a specific section of cable and was unable to be replicated using a different cable grip, or using the "slipped" cable grip on various other sections of the same cable type. Furthermore, the section of cable where the slippage occurred had a measured diameter of 0.260 inches. Therefore, it is believed that the possibility of slippage occurring is rare, however this issue can be eliminated by applying electrical tape to "whip" one end of the grip to the cable; the end that is under tension. This technique is shown in Figure 1.



Figure 1: Applying electrical tape to cable grip and cable.

By applying the electrical tape "whipping" to the cable grip and cable, any onset of tension applied to the grip will force the grip to constrict around the cable, thus preventing slippage. This technique was found to eliminate slippage when applied to all tested cable grip/cable combinations.

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