Pico Motor Adapter Cables

The pico motors operate with up to 120VAC and 0.8A at 1 to 2 kHz repetition rate. However, the manufacturer delivers the pico motor controllers with RJ12 connector outlets (telephone connectors).

The ALS EM shop (Tim Kunelli) and the CSD QEW (Robert Mueller) have given green light to use these pico motor controllers and allowed to make adapter cables such as a connection from RJ12 to Sub-D, so that the controllers can be connected to the xyz stages inside the vacuum chamber, while following the rules below:

a) the Sub-D outlet needs to be female to make it finger safe
b) you need to make sure that the provided telephone cable can handle the 120VAC and 800mA (check the AWG and the insulation)
c) the cable needs to be made by a Qualified Electrical Worker or at least presented to him before first use (because it over 50V and 0.5mA)
d) in case there are any open/unused telephone jack outlets at the controller they shall be plugged with a plastic telephone RJ12 jack (no cable attached) to make it finger safe