

## NOTE TO USERS

# Low-Leakage, Low-Thermal Cable Set

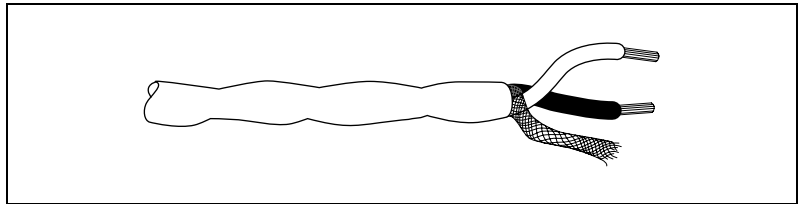
This document provides information about the low-leakage, low-thermal cable.



**Caution** This cable is *only* for low-voltage applications. The maximum voltage ratings for the cable are 30 V<sub>rms</sub>, 42 V<sub>pk</sub>, and 60 VDC max.

The cable construction is optimized for low-leakage and low-thermal EMF. The cable is insulated by an outer layer of Teflon, and the interior of the cable consists of two conductors that are also insulated with Teflon. The two conductors are twisted and then encapsulated within a braided shield. The cable is therefore shielded and insulated.

Figure 1 shows the conductors and braided shield within the cable.



**Figure 1.** Cable Subcomponents

Usually, the shield does not need to be connected to anything. However, in noisy environments, the shield can be connected either to ground or to another signal. If you connect the shield, do so only on one end of the cable; connecting the shield to ground or to another signal on both ends of the cable can cause measurement errors.



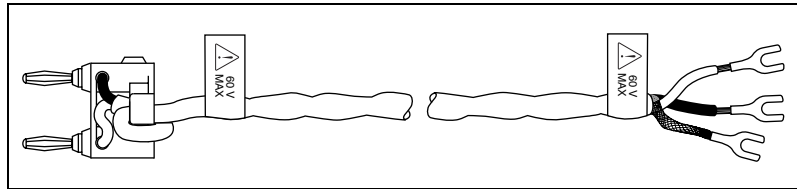
**Note** This cable set includes the cable only. Refer to the *Low-Leakage, Low-Thermal Connectivity Set Note to Users* at [ni.com/manuals](http://ni.com/manuals) for information about the set that additionally includes cable wire terminals and heat-shrink tubing.

# Safety Labels



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To warn users about the maximum voltage ratings, this cable contains safety warning labels, as Figure 2 shows. These safety warning labels *must* remain affixed to the cable.



**Figure 2.** Safety Labels on Cable Ends

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