

Introduction

This document contains information on the Model 2600-BAN SMU Output to Banana Test Lead/Adapter cable. This cable connects Category I SMU connections on the rear panel of a Model 260x Series SourceMeter® Instrument to banana test leads.

WARNING Maximum floating (common mode) voltage for a SMU is 250V. Exceeding this level could damage the instrument and create a shock hazard.

Using an external source to float a SMU could create a shock hazard in the test circuit. A shock hazard exists whenever >42V peak is present in the test circuit.

NOTE *If applicable, remove terminal block(s) before using the Model 2600-BAN. The Model 2602 can use two terminal blocks (one for each SMU channel), and the Model 2601 has one terminal block for the single SMU.*

A terminal block can be removed from the rear panel by loosening the two captive retaining screws and pulling them off the rear panel.

When the Model 2600-BAN is connected to the SMU connection, input/output LO can be connected to chassis ground by inserting the white banana jack to the rear panel chassis ground banana jack (Figure 2).

Cable description

As shown in Figure 1, the cable has a working dimension (dimension less the connectors) of 1.0 meter. Five color coded safety banana connectors (2 black, 2 red, 1 white) provide multiple test connection from the SMU output. Table 2 contains pinouts for the cable. As shown in Table 2, Pins 1–4 and Pin 8 are connected to the banana plug through cables.

NOTE The Model 2600-BAN Cable assembly is not UL approved.

Table 1
Cable specification

Characteristic	Specification
Maximum Voltage	300V
Maximum Current	3A
Category	I

Figure 1
Cable features

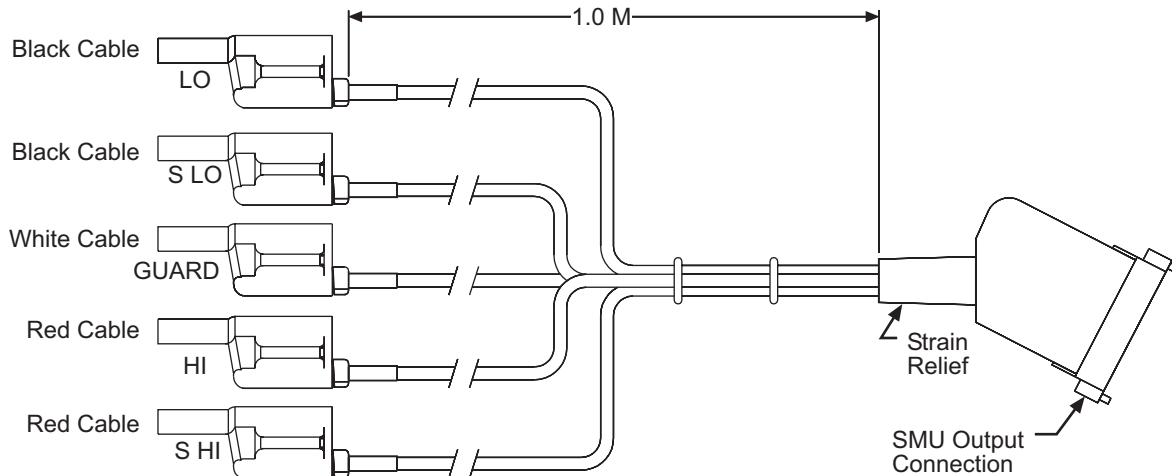


Table 2
Cable pinouts

Pin No.	Plug	Printed	Figure
1	Black	LO	
2	Black	S LO	
3	White	GUARD	
4	Red	HI	
5	-	-	
6	-	-	
7	-	-	
8	Red	S HI	

Connection

Refer to Figure 2 for a typical instrument connector location. Refer to the specific instrument's User's Manual for additional connection information.

WARNING Do not exceed the voltage rating for the cable or for the Model 260x. Make sure connections at both ends do not exceed the rated specifications.

Failure to follow this warning may result in injury from electrical shock as well as damage to the equipment.

Figure 2
Typical instrument connector

