

Description

The Model 2651A-KIT is a high-current, low-impedance coaxial cable assembly that is used to connect the Model 2651A High Power System SourceMeter® Instrument to the Model 8010 High Power Device Test Fixture. It also connects to the Model CS-1626-2, which is a 2-pin male (receptacle housing) termination block. The Model CS-1626-2 termination block is supplied with the Model 2651A.

Figure 1: Model 2651A-KIT



You can order the cable in three different lengths (see table below).

Model number	Cable length
2651A-KIT-1	3.28 ft (1.0 m)
2651A-KIT-2	6.56 ft (2.0 m)
2651A-KIT-3	9.84 ft (3.0 m)

There are multiple applications for the Model 2651A-KIT; three example applications are described below.

Use this cable to connect the Model 2651A directly to the Model 8010 High Power Device Test Fixture.

1. Plug one end of the cable into the OUTPUT connector on the Model 2651A.
2. Plug the other end of the cable into the appropriate INPUT connector on the Model 8010.

Use this cable with the Model CS-1626-2 termination block to connect the Model 2651A to a device under test (DUT):

1. Use insulated cable wires (12 gauge or thicker) to connect the Model CS-1626-2 termination block to the DUT.
2. Twist the cable wire pair to minimize inductance.
3. Plug one end of the Model 2651A-KIT cable into the Model CS-1626-2 termination block.
4. Plug the other end of the Model 2651A-KIT cable into the OUTPUT connector on the Model 2651A.

Use this cable with the Model CS-1626-2 termination block to connect the Model 2651A to the Model 8011 High Current Test Socket Kit:

1. Connect the unterminated ends of banana-plug cable wires to the screw terminals of the Model CS-1626-2. Unterminated banana-plug cables are available from Keithley Instruments (Model CA-567).
2. Twist the cable wire pair together to minimize inductance, and then plug the cables into the binding posts of the Model 8011 test socket board.
3. Plug one end of the Model 2651A-KIT cable into the Model CS-1626-2 screw terminal block.
4. Plug the other end of the cable into the OUTPUT connector on the Model 2651A.

Electrical characteristics

	3.28 ft (1 m)	6.56 ft (2 m)	9.84 ft (3 m)
Rated voltage and current	350 V maximum, 40 A		
Operating environment	-40 °C to +90 °C		
Electrical impedance	6 Ω		
DC resistance	11 m Ω	17 m Ω	24 m Ω
Inductance at 1 KHz	220 nH	320 nH	420 nH
Inductance at 100 KHz	195 nH	265 nH	340 nH
Cable diameter	0.217 in. (5.5 mm)		