Model CS-1616-3
Safety Interlock Mating Connector

Description
The Model CS-1616-3 is an interlock mating connector that is supplied with Keithley Instruments that include an interlock connection.

Figure 1: CS-1616-3 Safety Interlock Mating Connector

Specifications

Material:
- Glass-reinforced thermoplastic body and lower cover
- Transparent thermoplastic cover

Flammability:
- UL 94V-0

Wire outside diameter range:
- 1.2 mm to 1.6 mm (0.047 in. to 0.063 in.)

Current rating:
- 3.0 A

Temperature rating:
- -20 °C to 85 °C
Connection wire and assembly

When using the CS-1616-3 interlock mating connector with a Keithley instrument, use the following recommendations for choosing a connection wire:

- Copper alloy
- 7 to 19 bare and tinned strands
- 0.25 mm² to 0.50 mm², 20 AWG to 24 AWG
- Flexible vinyl, semi-flexible vinyl, polyethylene, cross-linked polyethylene, or PTFE

To ensure proper interlock operation, the combined resistance of the external interlock switch and connection wires must be less than 10 Ω when the switch is closed.

To assemble the interlock:
1. Insert the wire into the CS-1616-3.
2. Use a pair of pliers to squeeze the connector sections together.

NOTE

You cannot disassemble and reuse the CS-1616-3.