

GROUND LOOP BREAKER CABLE ASSEMBLY



General Description:

The Ground Loop Breaker assembly is a kit that allows for after-market installation of a chassis to electrical ground lift/isolation. This cable assembly is comprised of non-active electronic components and therefore does not require power or controls of any type.

In most electronic equipment powered by an AC mains source, there is a safety requirement to provide a connection from the equipment chassis to the outlet ground/earth connection. This connection can cause grounding loops between multiple pieces of equipment connected to the same power/ground source. In the case of sensitive audio, video and test equipment, this condition can cause unwanted noise to appear in their output signals.

General Purposes:

Some equipment manufactures' provide a switch or option to isolate/lift the chassis grounding when grounding loops cause a problem. This cable assembly kit provides an option for those pieces of equipment that do not provide a grounding isolation option without compromising the safety of chassis grounding.

This Ground Breaker kit provides the necessary features to allow a non-technically informed individual to safely modify an equipment chassis grounding system to isolate the earth ground path. However, it is highly recommended that a trained electronics technician perform the installation.

Installation:

To break grounding loop or isolate various chassis ground types do the following:

- **REMOVE** the current direct electrical connection between chassis and earth grounds to be isolated.
- **CUT AND TERMINATE** the green/yellow wire leads of the device for the best connection.
- **CONNECT GROUND BREAK MODULE** between the two ground points that have just been isolated
- **TEST/CHECK** for possible short circuits before returning the equipment to normal operation.

Part Number: AS-904-03000-000

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Specifications:

Physical Characteristics:

Primary Conductors:

Wire Sizes: 14 AWG 600V

Outer Jacket is Soft Polyvinyl-Chloride Composition

Color: Black

Insulation:

Wire - Mono Coating Flexible PVC Composite

Electronic Module – UL 94 V0 rated Epoxy

Dimensions:

Outer Dimensions Average:

1.140" x 1.140" x 1.120" inches (28.96mm x 28.96mm x 28.45mm)

Wire:

12.0" (30.5cm) connection wire loop

Weight:

1.65 oz. Per Assembly (47 grams)

Electrical Characteristics:

Resistance:

Conductor 0.00560 ohms Per Foot

Electronics:

15 amperes at 240VAC maximum

Coating Breakdown Voltage by Composition:

Wire - 600V UL listed

Module – 600V (Non-Listed)

Environmental Characteristics:

Chemical Resistant, Oil Resistant, Water Splash Resistant,

Temperature Range: Normal Service Conditions -40 to 70° C (-40 to 158°F)

Humidity: 0 to 90% Non-Condensing

RoHS (2002/95/EC) Compliant materials

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Available From:

Product manufactured in U.S.A.

Revised 9/16/2020 Test Results May Vary With Specific Applications.