

# PREMIUM AUDIO RCA CABLE ASSEMBLY (Unbalanced Coax)



## General Description:

The Premium RCA Cable assembly provides a rational cost effective solution for unbalanced audio and home theater systems. Exclusive to Gibson Engineering & Computers, Inc., this cable assembly has a large conductor continuous shield 75 Ohm architecture. There are no breaks/voids in the shield in the length of the cable assembly, including the connectors. This provides a significant level of noise improvement over the generally available RCA audio cable assemblies.

The specially manufactured oxygen free pure copper 18 AWG center conductor coax cable is designed specifically for low level audio band signals. The low capacitance construction and low series resistance provide noticeably improved signal response. The major purpose of our product is to preserve the characteristics and quality of the audio signal source when connecting audio sources to signal processing equipment and amplifiers.

The coax shield is constructed with state-of-the-art technologies. The shield is a pure oxygen free copper braid surrounding and acting as a drain for the conductive carbon based polymer 100% coverage inner shield. This dual-shield technology ensures a 100% shielding of the audio signal, while remaining flexible for a demanding environment.

The connectors are a very attractive satin finished machined nickel-plated brass shell protecting the inner contact area that is gold plated solid brass conductors. This unique connector design makes it possible for a continuous unbroken shield to be carried to the very connection points. The Teflon dielectric material separating the connector conductors also provides the highest quality dielectric signal properties available in the industry. Our cable assembly provides one of the very best RCA connectors available in the industry and the very best with relation to cost.

## General Purposes:

Developed to provide a highly flexible wire capable of satisfying the low loss and low noise floor demands of the audio industry. This product is primarily intended for the use with frequencies between 1-50kHz, low voltage level signals such as those found in the audio industries.

The high flexibility aspect of this product is an improvement that allows for easier installation and manageability of coaxial wire. As a result, this wire's flexibility is far greater than commonly used lower strand count wire with the standard Polyvinyl-Chloride jacket compositions.

Other potential uses are instrumentation, laboratory, studio environments where minimal signal loss and high noise immunity are of concern especially where there is a high signal/cable density of installation.

Part Number: AS-906-01101

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## Specifications:

Wire Sizes: 18 AWG

High Strand Count Oxygen Free Copper Core and Primary Shield

Carbon Filled Conductive Polymer Secondary Inner Shield

Inner Dielectric is High Quality Polyethylene

Outer Jacket is Soft Polyvinyl-Chloride Composition

## Physical Characteristics:

### Primary Conductors:

Pure Oxygen Free Copper

18 AWG 127/.004" Strand Twist Center Conductor

18AWG 92% 127/.004" Braided Shield

High Flexure Conductive Carbon Impregnated Contiguous Inner Shield Liner

Color: Black, Red, Orange, Bright Yellow, Acid Green, Lightening Blue

### Insulation:

Mono Coating Flexible PVC Composite

Thickness Average 0.039 (1.0mm)

Density 60D "A" Shore

### Dimensions:

Outer Diameter Average:

0.230" inches (5.80mm)

### Weight:

Cable 1.73 oz. Per Foot (100 grams Per Meter)

Connectors 0.80 oz. (24 grams) Per Cable assembly

## Electrical Characteristics:

### Resistance:

Inner Conductor 0.00560 ohms Per Foot, Shield 0.0076 ohms Per Foot

### Coating Breakdown Voltage by Composition:

300VDC Typical (Un-Rated)

Operational 300VDC (Un-Listed)

## Environmental Characteristics:

Chemical Resistant, Oil Resistant, Water Splash Resistant,

Corrosion Resistant Nickel-Plated Shell w/Gold Plated Contacts

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

## Options:

Custom Color, Custom Lengths

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Available From:

Product manufactured in U.S.A.

Revised 8/31/2017 Test Results May Vary With Specific Applications.