

## SPEAKER CABLES



Plug into  
Performance!

Tributaries high performance speaker cables are a unique design by Jay Victor optimized for superior sound quality. Starting with the same conductor criteria as Tributaries audio cables; speaker cable designs incorporate high performance copper with insulated multi-gauge conductors sharing the same sonic traits resulting in a sound which is more frequency balanced.

Special attention to cable geometry is given to the design of speaker cables. Speaker cables carry high current signals that are susceptible to magnetic fields. As a signal travels along a wire it creates a magnetic field that increases with signal voltage. This self-inductance impedes the signal by virtue of its inductive reactance. Star-Quad design cancels magnetic fields and improves the sound quality of your system.

### Star-Quad Geometry

Tributaries Series 4, 6 and 8 speaker cables all include a Star-Quad design. Star-Quad speaker cables are designed with four conductors, all wound together, in a "positive, negative, positive, negative" configuration. The cable is produced such that all 4 wires are evenly twisted together keeping each conductor the same distance from the center and ensuring each positive conductor is next to each negative conductor. The net result is the cancellation of opposing electromagnetic fields generated by each conductor pair. This design improves the system's performance by preventing EMI noise from entering and distorting the signals in nearby low level audio, video or digital cables. Another benefit of the Star Quad design is the reduction of the cable's inductance, again, improving the cables electrical performance and reducing the distortion it produces.



### Resistance

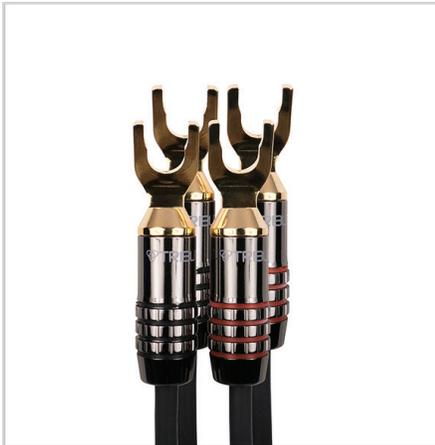
Resistance is another consideration when choosing a speaker cable. In simple terms: the larger the diameter of the cable or conductor; the lower the resistance. Cable resistance is expressed in ohms per unit. For instance, 500 feet of 16-gauge wire has a resistance of about 4 ohms. With speaker cables this becomes an issue. Because speakers exhibit input impedances in the range of 2 to 8 ohms, the resistance of the cable can add significantly to the overall load. For example, if a 4-ohm speaker is connected to an amplifier with a cable that exhibits a 4-ohm resistance, the cable will dissipate half of the amp's power before it even gets to the speaker! Tributaries offers a full line of speaker wire with gauges from from 11AWG to 16 AWG for your consideration. Below is a handy guide for choosing the correct size speaker wire for your unique installation.

**Maximum Wire Lengths for Two Conductor Copper Wire**

Wire Size	2 Ω load	4 Ω load	6 Ω load	8 Ω load
16 AWG	12 ft	24 ft	36 ft	48 ft
14 AWG	20 ft	40 ft	60 ft	80 ft
12 AWG	30 ft	60 ft	90 ft	120 ft
10 AWG	50 ft	100 ft	150 ft	200 ft

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*For speakers with only a single pair of rear panel terminals, we combine the four conductors of the Star-Quad cable into two at each end of the cable. In this set up, when used as a full range cable, the Star Quad Design (Negative + Negative / Positive + Positive) will reduce distortion over using a standard twisted pair speaker cable. Plus, when doubling the conductors, the amount of metal is doubled as well. The larger size conductor will lower the cable's resistance and provide higher current capability resulting in an increase in low frequency performance. Lowering the inductance and resistance means it's easier for the amp to drive the signal down the cable. Sonically, the sound is smooth and fluent as well as more dynamic, due to better definition. Tributaries Speaker cables are sold in each.*



### SERIES 8 STAR-QUAD SPEAKER CABLE

## MODEL:8SP

Reference Grade Audiophile Speaker Cable

All Series 8 speaker cables are meticulously assembled by hand in Orlando, Florida. Series 8 Star-Quad Speaker cables begin with extremely high grade linear crystal copper (LC-OFC) developed specifically for audio applications. Tributaries LC-OFC is carefully drawn to produce a low crystal volume per foot resulting in less signal loss and distortion. 11AWG conductors consist of multiple solid gauges that are mathematically and tonally chosen to support low, mid and high frequencies for a natural sounding cable. Individually insulating each conductor yields zero strand interaction and better sound quality. It is important to understand that music passing through the speaker cable, is actually an AC voltage, so when voltage passes through twisted wire, there will be additional magnetic fields. Tributaries Star-Quad design not only alternates the positive and negative signal conductors but also alternates the twisted lays in each multi-gauge conductor. Alternating lays cancels all levels of magnetic distortion. The end result is a dead-quiet neutral sounding cable that accurately produces the sound of live music

The Series 8 Star-Quad Speaker cable is stocked in each in lengths from 4 foot to 12 foot lengths with custom lengths available. Available terminated with Spade Lugs or Double Locking Banana Plugs

#### Model 8SP Highlights

Assembled by hand with foreign and domestic parts in Orlando Florida, USA

Star-Quad design reduces cable inductance and distortion

Two 11AWG LC-OFC conductors for best signal transfer

Three separate wire gauges for best bass, midrange and

Propriety optimized cable geometry for low noise and distortion

Unique design by Jay Victor for superior sound quality, exclusively from Tributaries

Decorative woven jacket over a UL® CL2 PVC jacket

“The Series 8 audio cables produced a dramatic and easily perceivable improvement in clarity, resolution, musicality and overall listening pleasure, and reduction of listening fatigue due to these benefits”



Ralph Tarnofsky | Professional Audio Consultants, NJ