

Speaker Wire



Construction

Conductor: Plain annealed copper Class 5

Insulation: Polyvinyl Chloride (PVC)

Color: Black, Red, transparent

Applications

Engineered for high-fidelity audio signal transmission in home theater systems, car audio setups, and professional PA environments. The high-strand flexible construction ensures easy routing around corners and under carpets. Suitable for connecting amplifiers and receivers to loudspeakers, delivering clear sound with minimal signal loss. The polarity marking simplifies installation by ensuring correct phase matching.

Standards

Conductor: ASTM B170 (OFC) / ASTM B566 (CCA)

Flammability: UL 13 (CL2/CL3 Rated), IEC 60332-1-2

Environmental: RoHS & REACH Compliant

Dimension: Verified to ASTM B258 (AWG Standards)



Specification

Nominal Voltage	450/750v
Test Voltage	1500V AC/5 Min
Temperature Range	-20°C to +75°C
Min. Bending Radius	8 x overall diameter
Polarity Identification	Stripe marked or Ribbed side

Technical Data (OFC Parallel Speaker Cable)

1. Dimensional Specifications

Size (No. of Cores x Section)	Nominal Construction of Conductor (No./mm)	Nominal Overall Diameter (mm)
2 x 0.50 mm ²	2 x 28/0.15	2.3 x 4.6
2 x 0.75 mm ²	2 x 42/0.15	2.6 x 5.2
2 x 1.5 mm ²	2 x 30/0.25	3.2 x 6.4
2 x 2.5 mm ²	2 x 50/0.25	3.8 x 7.6
2 x 4.0 mm ²	2 x 56/0.30	5.0 x 10.0
2 x 6.0 mm ²	2 x 84/0.30	6.0 x 12.0
2 x 10.0 mm ²	2 x 142/0.30	7.5 x 15.0
2 x 24 AWG	2 x 11/0.15	1.8 x 3.6
2 x 22 AWG	2 x 19/0.15	2.0 x 4.0
2 x 20 AWG	2 x 29/0.15	2.2 x 4.4
2 x 18 AWG	2 x 47/0.15	2.6 x 5.2
2 x 16 AWG	2 x 27/0.25	3.0 x 6.0
2 x 14 AWG	2 x 40/0.25	3.5 x 7.0
2 x 12 AWG	2 x 47/0.30	4.5 x 9.0
2 x 10 AWG	2 x 75/0.30	5.5 x 11.0
2 x 8 AWG	2 x 118/0.30	7.0 x 14.0

2. Recommended Maximum Cable Run Length

To maintain optimal signal quality and prevent audible power loss (<5% loss).

Speaker Wire Gauge	4 Ohms Speakers (Max Length)	6 Ohms Speakers (Max Length)	8 Ohms Speakers (Max Length)
18 AWG	16 feet	24 feet	32 feet
16 AWG	24 feet	36 feet	48 feet
14 AWG	40 feet	60 feet	80 feet
12 AWG	60 feet	90 feet	120 feet
10 AWG	100 feet	150 feet	200 feet