

# Speaker wire gauge chart

SoundCertified.com

This chart displays the max. recommended speaker wire length for each wire gauge depending on the speaker impedance (Ohms load).

Max. lengths are based on a wire power loss of 5% or less at maximum power to the speaker.

**Copper speaker wire chart<sup>1</sup>**

| Wire AWG | 2Ω Speaker     | 4Ω Speaker     | 6Ω Speaker      | 8Ω Speaker      | 16Ω Speaker      |
|----------|----------------|----------------|-----------------|-----------------|------------------|
| 24       | 2 ft (0.6 m)   | 4 ft (1.2 m)   | 6 ft (1.8 m)    | 8 ft (2.3 m)    | 15 ft (4.7 m)    |
| 22       | 4 ft (1.1 m)   | 7 ft (2.2 m)   | 11 ft (3.3 m)   | 14 ft (4.4 m)   | 29 ft (8.8 m)    |
| 20       | 6 ft (1.8 m)   | 12 ft (3.6 m)  | 18 ft (5.3 m)   | 23 ft (7.1 m)   | 47 ft (14.2 m)   |
| 18       | 9 ft (2.8 m)   | 18 ft (5.6 m)  | 28 ft (8.4 m)   | 37 ft (11.2 m)  | 73 ft (22.4 m)   |
| 16       | 12 ft (3.6 m)  | 23 ft (7.2 m)  | 35 ft (10.7 m)  | 47 ft (14.3 m)  | 94 ft (28.7 m)   |
| 14       | 20 ft (6.2 m)  | 40 ft (12.3 m) | 61 ft (18.5 m)  | 81 ft (24.7 m)  | 162 ft (49.4 m)  |
| 12       | 31 ft (9.4 m)  | 62 ft (18.9 m) | 93 ft (28.3 m)  | 124 ft (37.8 m) | 248 ft (75.5 m)  |
| 10       | 48 ft (14.6 m) | 96 ft (29.2 m) | 144 ft (43.8 m) | 191 ft (58.3 m) | 383 ft (116.7 m) |
| 8        | 72 ft (22 m)   | 144 ft (44 m)  | 216 ft (65.9 m) | 288 ft (87.9 m) | 577 ft (175.8 m) |

**Copper clad aluminum (CCA) wire chart<sup>2</sup>**

| Wire AWG | 2Ω Speaker     | 4Ω Speaker      | 6Ω Speaker      | 8Ω Speaker      | 16Ω Speaker      |
|----------|----------------|-----------------|-----------------|-----------------|------------------|
| 24       | 1 ft (0.4 m)   | 3 ft (0.9 m)    | 4 ft (1.3 m)    | 6 ft (1.7 m)    | 11 ft (3.4 m)    |
| 22       | 3 ft (0.8 m)   | 5 ft (1.6 m)    | 8 ft (2.4 m)    | 11 ft (3.2 m)   | 21 ft (6.4 m)    |
| 20       | 4 ft (1.3 m)   | 9 ft (2.6 m)    | 13 ft (3.9 m)   | 17 ft (5.2 m)   | 34 ft (10.4 m)   |
| 18       | 7 ft (2 m)     | 13 ft (4.1 m)   | 20 ft (6.1 m)   | 27 ft (8.2 m)   | 54 ft (16.3 m)   |
| 16       | 9 ft (2.6 m)   | 17 ft (5.2 m)   | 26 ft (7.8 m)   | 34 ft (10.5 m)  | 69 ft (20.9 m)   |
| 14       | 15 ft (4.5 m)  | 30 ft (9 m)     | 44 ft (13.5 m)  | 59 ft (18 m)    | 118 ft (36 m)    |
| 12       | 23 ft (6.9 m)  | 45 ft (13.8 m)  | 68 ft (20.7 m)  | 90 ft (27.6 m)  | 181 ft (55.1 m)  |
| 10       | 35 ft (10.6 m) | 70 ft (21.3 m)  | 105 ft (31.9 m) | 140 ft (42.6 m) | 279 ft (85.2 m)  |
| 8        | 53 ft (16 m)   | 105 ft (32.1 m) | 158 ft (48.1 m) | 211 ft (64.2 m) | 421 ft (128.4 m) |

**TIP:** For lower power everyday use (50-60% of max. amp or stereo power), one size smaller wire gauge can be used.

<sup>1</sup>Based on stranded copper wire at normal temperature.

<sup>2</sup>Estimates made using lower conductivity factor for CCA wire.

# Speaker Wire Size Guide

**Dale McIntosh, Rick Nelson**



## Speaker Wire Size Guide:

Technical Guide for Audio Technicians, Sound Engineers, and Musicians (Beginner to Intermediate) Gary U Petrin, 2024-01-01 Are you looking for a simple and practical way to learn Audio fundamentals but need help figuring out where to start Do you want to make and repair your own audio cables Do you want to learn how to test your audio cables and equipment Our specialized guide is designed to help you understand essential technical basics which include audio cables and connectors basic audio theory including impedance balanced unbalanced line mic levels and attenuators how to make and repair your cables test your equipment cables speakers microphones power etc and even troubleshoot and quickly evaluate common problems All the information is detailed but simplified as well The video clips links shown in blue will help bring it all together Read the booklet and view the information in action on the video clips for a comprehensive Interactive learning experience This booklet will assist aspiring audio technicians and sound engineers develop the technical knowledge and skills to succeed Are you a musician Most musicians need help understanding the technical elements or the fundamentals of the musical equipment and audio systems they work with But now musicians have an option Our specialized guide is designed to help you understand critical technical basics We use practical information video clips and handouts to help simplify the information We will cover the basics including audio cables and connectors basic audio theory to include impedance balanced unbalanced line mic levels and attenuators how to repair and make your own cables test your equipment cables speakers microphones power etc and even troubleshoot and quickly evaluate common problems Knowing and understanding this information can and will help save you time and money After reading this booklet you can make new cables or repair your existing cables perform basic tests and measurements and troubleshoot and possibly repair common problems such as cable speaker and microphone issues scratchy gain controls hum noise no power mixer inputs and outputs signal issues and 70 Volt systems that could save you time and money This eBook is essential for aspiring audio technicians sound engineers or musicians Get your copy now      **Guide to Sound Systems for Worship** Jon F. Eiche, 1990 Running title The Yamaha guide to sound systems for worship      *The Ultimate Guide On Installing Your After Market Car Stereo* Ryan Keeler, 2024-02-22 The Ultimate Guide on Installing Your After Market Car Stereo by Ryan Keeler is a comprehensive guide published on February 22 2024 aimed at audiophiles and vehicle enthusiasts who wish to upgrade their car audio systems This detailed manual covers everything from the basics of car audio systems to the intricate steps involved in installing various components like head units speakers amplifiers and subwoofers Ryan Keeler meticulously explains the tools and techniques required for each stage of the installation process ensuring that even those new to car audio can understand and follow the procedures The guide emphasizes the importance of proper planning selecting the right components and the technical know how necessary to achieve the best sound quality and system functionality It includes detailed sections on the electrical fundamentals relevant to car stereo systems such as wiring diagrams grounding and connectivity issues along with

troubleshooting tips for common installation challenges Additionally the book delves into advanced topics like integrating modern technology with traditional car audio systems including Bluetooth connectivity smart device integration and navigation systems Keeler also addresses aesthetic considerations ensuring that the installation not only sounds good but also looks professional within the vehicle s existing interior Overall this guide is an invaluable resource for anyone looking to upgrade their car stereo system providing practical advice and professional insights to ensure a successful installation that enhances the in car audio experience

**Handbook for Sound Engineers** Glen Ballou,2013-05-02 Handbook for Sound Engineers is the most comprehensive reference available for audio engineers All audio topics are explored if you work on anything related to audio you should not be without this book The 4th edition of this trusted reference has been updated to reflect changes in the industry since the publication of the 3rd edition in 2002 including new technologies like software based recording systems such as Pro Tools and Sound Forge digital recording using MP3 wave files and others mobile audio devices such as iPods and MP3 players Over 40 topics are covered and written by many of the top professionals for their area in the field including Glen Ballou on interpretation systems intercoms assistive listening and image projection Ken Pohlmann on compact discs and DVDs David Miles Huber on MIDI Dr Eugene Patronis on amplifier design and outdoor sound systems Bill Whitlock on audio transformers and preamplifiers Pat Brown on fundamentals and gain structures Ray Rayburn on virtual systems and digital interfacing and Dr Wolfgang Ahnert on computer aided sound system design and acoustics for concert halls

*Guide to Industrial Sound* Richmond L. Cardinell,Glenn C. Henry,United States. War Production Board. Office of Production Research and Development,1944

**Popular Mechanics Guide to Do-it-yourself Materials** Richard V. Nunn,1982

*Black & Decker The Complete Guide to Wiring, 5th Edition* Editors of CPi,2011-05-01 DIVThe Black Decker Complete Guide to Wiring has been America s best selling consumer wiring book for more than a decade with previous editions selling more than 1 million copies This fifth edition has been updated to comply with 2011 2013 National Electrical Codes It also includes all new information on solar electricity grounding an upgraded electrical service system emergency back up electrical power and much more A bonus computer smartphone link takes you to 60 minutes of how to video featuring common home wiring projects div

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physical implications of circuit laws switching circuit analysis and the basis for converter operation and control It discusses dc dc ac dc dc ac and ac ac conversion tasks and principles of resonant converters and discontinuous converters The text also addresses magnetic device design thermal management and drivers for power semiconductors control system aspects of converters and both small signal and geometric controls Models for real devices and components including capacitors inductors wire connections and power semiconductors are developed in depth while newly expanded examples show students how to use tools like Mathcad Matlab and Mathematica to aid in the analysis and design of conversion circuits DB Magazine ,1993 Haynes Xtreme Customizing Ford Full-size Pick-ups John Haynes,2005-01-23 This step by step color guide for the Ford full size pick up owner shows you how to customize your truck from top to bottom Haynes publishers of the best automotive manuals for repairing your vehicle now offers the same easy to follow step by step process for customizing your truck Everything from adding a custom front grille to transforming your cab with awesome audio and video can be found in this comprehensive book And since it s from Haynes it s easy to do it yourself Complete coverage on customizing your Ford Pick up Raise or Lower your Suspension Add In car Video Brake Upgrades Body Exterior Custom Painting Build a Sound System Engine Performance Interior Mods Handy Tips and Tricks from the Experts 100s of Customizing Ideas Full Color throughout **Detailing and Upgrading Steam Locomotives** ,2018-11-02

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