

# COPPER BUSBAR RATING



**Austral  
Wright Metals**

<http://www.australwright.com.au>

## NOTES:

1. Ratings apply for single bars on edge operating in a 40°C ambient temperature with 50°C temperature rise.
2. A.C. Ratings are for frequencies up to 60 Hz.
3. "Free Air" Conditions assume some air movement other than convection currents, and may be applicable for outside installations. "Still Air" and "Free Air" Conditions both assume no enclosure.
4. Source data: www.csis.org.uk

| Busbar Size | X-Sectional area |                 | Weight | Approx D.C. Resistance 20°C | Approx D.C. rating (I) |              | Approx A.C. rating |          | Moment of Inertia |                 | Modulus of Section Z |                 |
|-------------|------------------|-----------------|--------|-----------------------------|------------------------|--------------|--------------------|----------|-------------------|-----------------|----------------------|-----------------|
|             | mm <sup>2</sup>  | mm <sup>2</sup> |        |                             | Still Air (I)          | Free Air (I) | Still Air          | Free Air | Edge-wise         | Flat            | Edge-wise            | Flat            |
| mm          | mm <sup>2</sup>  | kg/m            | mΩ/m   | A                           | A                      | A            | A                  | A        | mm <sup>4</sup>   | mm <sup>4</sup> | mm <sup>3</sup>      | mm <sup>3</sup> |
| 10 x 1.60   | 16               | 0.140           | 10.77  | 105                         | 115                    | 105          | 115                | 115      | 133.3             | 34.13           | 26.66                | 4.266           |
| 12.5 x 1.60 | 20               | 0.179           | 86.2   | 125                         | 135                    | 125          | 135                | 135      | 260.4             | 4.266           | 41.66                | 5.333           |
| 16 x 1.60   | 25.6             | 0.229           | 67.3   | 155                         | 170                    | 155          | 170                | 170      | 546.1             | 5.461           | 66.26                | 6.826           |
| 20 x 1.60   | 32               | 0.286           | 53.8   | 185                         | 205                    | 185          | 205                | 205      | 1,065             | 6.826           | 106.6                | 8.533           |
| 25 x 1.60   | 40               | 0.357           | 43.1   | 225                         | 250                    | 225          | 250                | 250      | 2,063             | 8.533           | 166.6                | 10.67           |
| 30 x 1.60   | 48               | 0.436           | 35.9   | 265                         | 290                    | 265          | 290                | 290      | 3,600             | 10.34           | 240                  | 13.8            |
| 10 x 2.00   | 20               | 0.179           | 86.2   | 115                         | 130                    | 115          | 130                | 130      | 166.6             | 6.666           | 33.32                | 6.666           |
| 12.5 x 2.00 | 25               | 0.223           | 69.9   | 140                         | 155                    | 140          | 155                | 155      | 325.5             | 8.333           | 52.08                | 8.333           |
| 16 x 2.00   | 32               | 0.286           | 53.8   | 175                         | 190                    | 175          | 190                | 190      | 682.6             | 10.66           | 85.33                | 10.66           |
| 20 x 2.00   | 40               | 0.357           | 43.1   | 210                         | 230                    | 210          | 230                | 230      | 1,333             | 13.33           | 133.3                | 13.33           |
| 25 x 2.00   | 50               | 0.446           | 34.4   | 255                         | 280                    | 255          | 280                | 280      | 2,604             | 16.66           | 266.3                | 16.66           |
| 30 x 2.00   | 60               | 0.536           | 29.7   | 295                         | 330                    | 295          | 330                | 330      | 4,500             | 20              | 300                  | 20              |
| 40 x 2.00   | 80               | 0.714           | 21.5   | 380                         | 420                    | 380          | 420                | 420      | 10,660            | 26.66           | 533                  | 26.66           |
| 10 x 2.50   | 25               | 0.223           | 69.9   | 130                         | 145                    | 130          | 145                | 145      | 208.3             | 13.02           | 41.66                | 10.42           |
| 12.5 x 2.50 | 31.25            | 0.279           | 55.7   | 160                         | 175                    | 160          | 175                | 175      | 406.9             | 16.27           | 65.6                 | 13.02           |
| 16 x 2.50   | 40               | 0.357           | 43.1   | 195                         | 215                    | 195          | 215                | 215      | 853.3             | 20.83           | 106.7                | 16.66           |
| 20 x 2.50   | 50               | 0.446           | 34.4   | 235                         | 260                    | 235          | 260                | 260      | 1,666             | 26.04           | 166.6                | 20.83           |
| 25 x 2.50   | 62.5             | 0.558           | 27.5   | 285                         | 315                    | 285          | 315                | 315      | 3,255             | 32.55           | 260.4                | 26.04           |
| 30 x 2.50   | 75               | 0.67            | 22.9   | 330                         | 370                    | 330          | 370                | 370      | 5,400             | 39.06           | 375                  | 31.25           |
| 40 x 2.50   | 100              | 0.893           | 17.2   | 425                         | 475                    | 425          | 475                | 475      | 13,330            | 52.08           | 666.5                | 41.66           |
| 50 x 2.50   | 125              | 1.115           | 13.7   | 520                         | 575                    | 520          | 575                | 575      | 26,040            | 65.1            | 1,041                | 52.08           |
| 60 x 2.50   | 150              | 1.336           | 11.4   | 605                         | 675                    | 605          | 675                | 675      | 45,000            | 78.13           | 1,500                | 62.5            |
| 10 x 2.75   | 31.5             | 0.281           | 54.7   | 150                         | 170                    | 150          | 170                | 170      | 262.5             | 26.05           | 52.05                | 16.54           |
| 12.5 x 2.75 | 39.4             | 0.352           | 43.7   | 180                         | 200                    | 180          | 200                | 200      | 512.7             | 32.56           | 82.68                | 20.67           |
| 16 x 3.0    | 60               | 0.536           | 29.7   | 260                         | 290                    | 260          | 290                | 290      | 3,600             | 45              | 300                  | 30              |
| 25 x 3.0    | 75               | 0.67            | 22.9   | 315                         | 350                    | 315          | 350                | 350      | 5,400             | 56.25           | 312.4                | 37.5            |
| 30 x 3.0    | 90               | 0.803           | 19.1   | 365                         | 405                    | 365          | 405                | 405      | 6,750             | 67.5            | 450                  | 45              |
| 40 x 3.0    | 120              | 1.071           | 14.3   | 470                         | 520                    | 470          | 520                | 520      | 16,000            | 90              | 800                  | 60              |
| 50 x 3.0    | 150              | 1.336           | 11.4   | 570                         | 635                    | 570          | 635                | 635      | 31,250            | 112.5           | 1,250                | 75              |
| 60 x 3.0    | 180              | 1.607           | 9.5.7  | 665                         | 740                    | 665          | 740                | 740      | 54,000            | 135             | 1,800                | 90              |
| 80 x 3.0    | 240              | 2.142           | 71.8   | 860                         | 955                    | 860          | 955                | 955      | 128 x 103         | 180             | 3,200                | 120             |
| 10 x 4.0    | 40               | 0.357           | 43.1   | 175                         | 195                    | 175          | 195                | 195      | 333.3             | 53.33           | 66.66                | 24.67           |
| 12.5 x 4.0  | 50               | 0.446           | 34.4   | 210                         | 230                    | 210          | 230                | 230      | 651               | 66.67           | 104.2                | 33.34           |
| 16 x 4.0    | 64               | 0.571           | 26.9   | 255                         | 285                    | 255          | 285                | 285      | 1,365             | 85.33           | 170.6                | 42.67           |
| 20 x 4.0    | 80               | 0.714           | 21.5   | 305                         | 340                    | 305          | 340                | 340      | 2,666             | 106.7           | 266.6                | 53.35           |
| 25 x 4.0    | 100              | 0.893           | 17.2   | 365                         | 410                    | 365          | 410                | 410      | 5,208             | 133.3           | 416.6                | 66.65           |
| 30 x 4.0    | 120              | 1.071           | 14.3   | 430                         | 475                    | 430          | 475                | 475      | 8,999             | 160             | 599.6                | 80              |
| 40 x 4.0    | 160              | 1.428           | 10.7   | 545                         | 610                    | 540          | 605                | 605      | 21,330            | 213.3           | 1,066.50             | 106.7           |
| 50 x 4.0    | 200              | 1.786           | 86.2   | 665                         | 740                    | 660          | 735                | 735      | 41,660            | 266.7           | 1,666                | 133.4           |
| 60 x 4.0    | 240              | 2.142           | 71.8   | 775                         | 860                    | 770          | 855                | 855      | 72,000            | 320             | 2,400                | 160             |
| 80 x 4.0    | 320              | 2.856           | 53.8   | 995                         | 1,120                  | 980          | 1,105              | 1,105    | 170 x 103         | 426.7           | 4,268                | 213.4           |
| 100 x 4.0   | 400              | 3.571           | 43.1   | 1,210                       | 1,365                  | 1,185        | 1,340              | 1,340    | 330 x 103         | 533.3           | 6,666                | 266.7           |
| 10 x 5.0    | 50               | 0.446           | 34.4   | 200                         | 225                    | 200          | 225                | 225      | 416.7             | 104.2           | 80.34                | 41.68           |
| 12.5 x 5.0  | 62.5             | 0.558           | 27.5   | 240                         | 265                    | 240          | 265                | 265      | 813.4             | 130.2           | 130.1                | 52.08           |
| 16 x 5.0    | 80               | 0.714           | 21.5   | 280                         | 305                    | 280          | 305                | 305      | 1,707             | 166.7           | 213.4                | 66.66           |
| 20 x 5.0    | 100              | 0.893           | 17.2   | 345                         | 385                    | 345          | 385                | 385      | 3,303             | 208             | 303.8                | 83.2            |
| 25 x 5.0    | 125              | 1.115           | 13.7   | 415                         | 465                    | 415          | 465                | 465      | 6,560             | 260.4           | 520.8                | 104.2           |
| 30 x 5.0    | 150              | 1.336           | 11.4   | 495                         | 540                    | 490          | 540                | 540      | 11,250            | 312.5           | 750                  | 135             |
| 40 x 5.0    | 200              | 1.786           | 86.2   | 615                         | 685                    | 610          | 680                | 680      | 26,670            | 416.7           | 1,334                | 166.7           |
| 50 x 5.0    | 250              | 2.232           | 68.9   | 745                         | 820                    | 740          | 820                | 820      | 52,080            | 520.8           | 2,083                | 208.3           |
| 60 x 5.0    | 300              | 2.678           | 57.4   | 870                         | 970                    | 865          | 960                | 960      | 90,000            | 625             | 3,000                | 250             |

# Busbar Ratings Guide Table

**KC Agrawal**

A red circular graphic with a gradient, appearing as a stylized arrow or a decorative element, located to the right of the author's name.

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Planning Guide for Power Distribution Plants Hartmut Kiank, Wolfgang Fruth, 2012-01-27 When planning an industrial power supply plant the specific requirements of the individual production process are decisive for the design and mode of operation of the network and for the selection and design and ratings of the operational equipment Since the actual technical risks are often hidden in the profound and complex planning task planning decisions should be taken after responsible and careful consideration because of their deep effects on supply quality and energy efficiency This book is intended for engineers and technicians of the energy industry industrial companies and planning departments It provides basic technical network and plant knowledge on planning installation and operation of reliable and economic industrial networks In addition it facilitates training for students and graduates in this field In an easy and comprehensible way this book informs about solution competency gained in many years of experience Moreover it also offers planning recommendations and knowledge on standards and specifications the use of which ensures that technical risks are avoided and that production and industrial processes can be carried out efficiently reliably and with the highest quality

## **The Electrician's Guide to the 17th Edition of the IET Wiring Regulations BS 7671:2008 incorporating Amendment 3:2015 and Part P of the Building Regulations**

John Whitfield, Andrew Hay-Ellis, 2015-07-20 For more than 30 years students and practising electricians have relied on John Whitfield to guide them through the complexities of the Wiring Regulations Unlike other publications it does not assume that readers are fully conversant with electrical theory It assumes just a basic knowledge and introduces technical matter with brief easy to understand explanations His Guide is a recognised brand has consistently been a bestseller and regarded as THE guide to the Wiring Regulations This 4th Edition covers Amendment 3 2015 regarded as potentially life saving which comes into effect July 2015 As in earlier editions all useful relevant details derived from other IET publications such as Guidance Notes Wiring Matters which might otherwise be overlooked by electricians are included Importantly the Guide also benefits from the most up to date hands on expertise provided by the co author Andrew Hay Ellis whose credentials are second to none He is an established author of vocational electrical books and amongst other functions is a Chief Examiner at City Guilds

Electrical Power Engineering Reference & Applications Handbook K.C.Agrawal , 2020-11-10 SOME UNIQUE FEATURES Special thrust on energy conservation pollution control and space saving in consonance with the latest global requirements Special Coverage on earthquake engineering and tsunami Seismic testing of critical machines In all there are 32 Chapters and 2 Appendices Each chapter is very interesting and full of rare Information The book contains 5 parts and each part is a mini encyclopedia on the subjects covered Many topics are research work of the author and may have rare information not available in most works available in the market Tables of all relevant and equivalent Standards IEC BS ANSI NEMA IEEE and IS at the end of each chapter is a rare feature APPLICATIONS OF THE HANDBOOK For professionals and practising engineers As a reference handbook for all professionals and practising

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**Guide to the IET Wiring Regulations** Electrical Contractors' Association (ECA), 2012-03-06 This authoritative best selling guide has been extensively updated with the new technical requirements of the IET Wiring Regulations BS 7671 2008 Amendment No 1 2011 also known as the IET Wiring Regulations 17th Edition With clear description it provides a practical interpretation of the amended regulations effective January 2012 offers real solutions to the problems that can occur in practice This revised edition features new material on hot topics such as electromagnetic compatibility EMC harmonics surge protective devices and new special locations including medical locations and operative or maintenance gangways highlights the changes that have been made in this latest Amendment and their impact in practice examples of how to comply with the Wiring Regulations fully integrated colour including sixty brand new colour illustrations twenty tables and new high quality photographs This essential guide retains its handy format ideal for practicing electricians trainee electricians and apprentices to carry with them for quick reference It is a valuable resource for all users of BS 7671 who want to understand the background to the Regulations electrical engineers and technicians installation and design engineers consulting and building services engineers also dedicated inspectors and testers

**Electrical Installation Guide**, 2008 *Electrotechnology Practice* Jeffery Hampson, Steven Hanssen, 2019-06-07 *Electrotechnology Practice* is a practical text that accompanies Hampson Hanssen's theoretical *Electrical Trade Principles* It covers essential units of competencies in the two key qualifications in the UEE Electrotechnology Training Package Certificate II in Electrotechnology Career Start Certificate III in Electrotechnology Electrician Aligned with the latest Australian and New Zealand standards the text references the Wiring Rules AS/NZS 3000 2018 and follows the uniform structure and system of delivery as recommended by the nationally accredited vocational education and training authorities More than 1000 illustrations convey to the learner various concepts and real world aspects of electrical practices a range of fully worked examples and review questions support student learning while assessment style

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*Marine Electrical Practice* G. O. Watson, 2014-05-12 Marine Engineering Series Marine Electrical Practice Sixth Edition focuses on changes in the marine industry including the application of programmable electronic systems generators and motors The publication first ponders on insulation and temperature ratings of equipment protection and discrimination and AC generators Discussions focus on construction shaft drive generators effect of unbalanced loading subtransient and transient reactance protection discrimination fault current measurement of ambient air temperature and basis of machine ratings The text then examines AC switchgear automatic voltage regulators DC generators and DC switchgear Topics cover switchgear for parallel operated generators protection against short circuit field regulators and the effect of tropical temperatures compound wound generators power generators loading sharing voltage comparison circuit and amplifier and condition circuit The manuscript surveys electric cables motors motor control gear semiconductors storage batteries and battery control gear Concerns include calculations to determine the size of battery required types of storage batteries rectifiers tunnel diodes maintenance of control gear overload protection insulation sheathing and flexible cords and cables The publication is a dependable reference for marine engineers and researchers interested in marine engineering

A Text Book of Design of Electrical Installations Jain, 1993-10      Industrial Power Engineering Handbook KC Agrawal, 2001-11-08 Part 1 Electric Motors Part 2 Switchgear Assemblies and Captive Power Generation Part 3 Voltage Surges Over voltages and grounding practices Part 4 Power Capacitors Part 5 Bus Systems      **Electrical Installations Handbook** Günter G. Seip, Werner Sturm, 1987 A three volume set of books which give comprehensive coverage of the practice of Electrical Installation Engineering This second edition is completely up to date as well as including the latest information on standards and specifications it looks forward to developments which can be expected in the future Topics covered range from power and wiring systems through telecommunications to such subjects as fire alarm systems air conditioning and heating plants The numerous examples and illustrations included in the Handbook will make it an invaluable source of information for all practising engineers

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## **Table of Contents Busbar Ratings Guide Table**

1. Understanding the eBook Busbar Ratings Guide Table
  - The Rise of Digital Reading Busbar Ratings Guide Table
  - Advantages of eBooks Over Traditional Books
2. Identifying Busbar Ratings Guide Table
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Busbar Ratings Guide Table
  - User-Friendly Interface
4. Exploring eBook Recommendations from Busbar Ratings Guide Table
  - Personalized Recommendations
  - Busbar Ratings Guide Table User Reviews and Ratings
  - Busbar Ratings Guide Table and Bestseller Lists
5. Accessing Busbar Ratings Guide Table Free and Paid eBooks
  - Busbar Ratings Guide Table Public Domain eBooks
  - Busbar Ratings Guide Table eBook Subscription Services
  - Busbar Ratings Guide Table Budget-Friendly Options
6. Navigating Busbar Ratings Guide Table eBook Formats

- ePub, PDF, MOBI, and More
- Busbar Ratings Guide Table Compatibility with Devices
- Busbar Ratings Guide Table Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Busbar Ratings Guide Table
  - Highlighting and Note-Taking Busbar Ratings Guide Table
  - Interactive Elements Busbar Ratings Guide Table
- 8. Staying Engaged with Busbar Ratings Guide Table
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Busbar Ratings Guide Table
- 9. Balancing eBooks and Physical Books Busbar Ratings Guide Table
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Busbar Ratings Guide Table
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Busbar Ratings Guide Table
  - Setting Reading Goals Busbar Ratings Guide Table
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Busbar Ratings Guide Table
  - Fact-Checking eBook Content of Busbar Ratings Guide Table
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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