

6.0 Jointing of Copper Busbars

David Chapman

6.1 Introduction

Busbar joints are of two types; linear joints required to assemble manageable lengths into the installation and T-joints required to make tap-off connections. Joints need to be mechanically strong, resistant to environmental effects and have a low resistance that can be maintained over the load cycle and throughout the life of the joint.

6.2 Busbar Jointing Methods

Efficient joints in copper busbar conductors can be made very simply by bolting, clamping, riveting, soldering or welding. Bolting and clamping are used extensively on-site. Shaped busbars may be prefabricated by using friction stir welding.

Bolted joints are formed by overlapping the bars and bolting through the overlap area. They are compact, reliable and versatile but have the disadvantage that holes must be drilled or punched through the conductors, causing some distortion of the current flow in the bar. Bolted joints also tend to have a less uniform contact pressure than those made by clamping but, despite these issues, bolted joints are very commonly used and have proven to be reliable. They can be assembled on-site without difficulty.

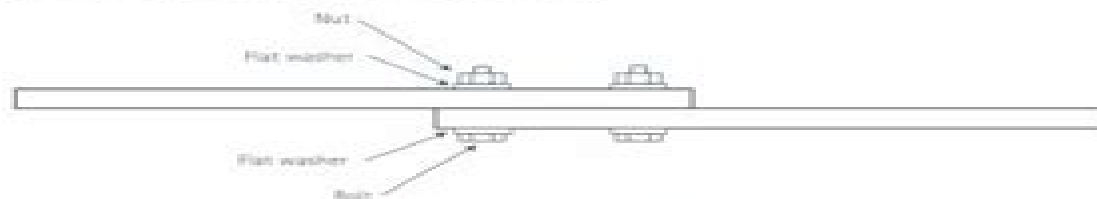


Figure 60 – A typical bolted joint

Clamped joints are formed by overlapping the bars and applying an external clamp around the overlap. Since there are no bolt holes, the current flow is not disturbed resulting in lower joint resistance. The extra mass at the joint helps to reduce temperature excursions under cyclic loads. Well-designed clamps give an even contact pressure and are easy to assemble, but take up more space than a bolted joint and are more expensive to manufacture.

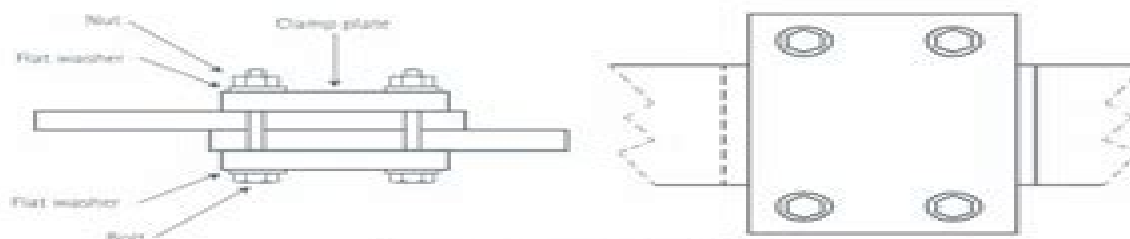


Figure 61 – A simple clamped joint

Riveted joints are similar to bolted joints. They can be efficient if well made; it is difficult to control the contact pressure. They cannot easily be dismantled or tightened in service and they are difficult to install.

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JG Myers



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Drawings for the Johnsonville Steam Plant Tennessee Valley Authority. Engineering and Construction Departments, 1955 This collection of plates list all drawings prepared in connection with the design and construction of the steam plant and appurtenant structures *Copper for Busbar Purposes*, 1950 *Electric Wiring* W. S. Ibbetson, 1920

Electrical Contacts Paul G. Slade, 2017-12-19 Covering the theory application and testing of contact materials *Electrical Contacts Principles and Applications* Second Edition introduces a thorough discussion on making electric contact and contact interface conduction presents a general outline of and measurement techniques for important corrosion mechanisms considers the results of contact wear when plug in connections are made and broken investigates the effect of thin noble metal plating on electronic connections and relates crucial considerations for making high and low power contact joints It examines contact use in switching devices including the interruption of AC and DC circuits with currents in the range 10mA to 100kA and circuits up to 1000V and describes arc formation between open contacts and between opening contacts Arcing effects on contacts such as erosion welding and contamination are also addressed Containing nearly 3 000 references tables equations figures drawings and photographs the book provides practical examples encompassing everything from electronic circuits to high power circuits or microamperes to mega amperes The new edition Reflects the latest advances in electrical contact science and technology Examines current research on contact corrosion materials and switching Includes updates and revisions in each chapter as well as up to date references and new figures and examples throughout Delivers three new chapters on the effects of dust contamination electronic sensing for switching systems and contact phenomena for micro electronic systems MEMS applications With contributions from recognized experts in the field *Electrical Contacts Principles and Applications* Second Edition assists practicing scientists and engineers in the prevention of costly system failures as well as offers a comprehensive introduction to the subject for technology graduate students by expanding their knowledge of electrical contact phenomena *Architectural Record of Design and Construction*, 1942 **The Electric Journal**, 1924

The Electrical Review, 1928 *The Engineer*, 1915 *Electrical Times*, 1969 *Electrical Contacts* Milenko Braunovic, Nikolai K. Myshkin, Valery V. Konchits, 2017-12-19 Various factors affect the performance of electrical contacts including tribological mechanical electrical and materials aspects Although these behaviors have been studied for many years they are not widely used or understood in practice Combining approaches used across the globe *Electrical Contacts Fundamentals Applications and Technology* integrates advances in research and development in the tribological material and analytical aspects of electrical contacts with new data on electrical current transfer at the micro and nanoscales Taking an application oriented approach the authors illustrate how material characteristics tribological behavior and loading impact the degradation of contacts formation of intermetallics and overall reliability and performance Coverage is divided broadly into three sections with the first focused on mechanics tribology materials current and heat transfer and basic reliability issues of

electrical contacts The next section explores applications such as power connections electronic connections and sliding contacts while the final section presents the diagnostic and monitoring techniques used to investigate and measure phenomena occurring at electrical contact interfaces Numerous references to current literature reflect the fact that this book is the most comprehensive survey in the field Explore an impressive collection of data theory and practical applications in Electrical Contacts Fundamentals Applications and Technology a critical tool for anyone investigating or designing electrical equipment with improved performance and reliability in mind *Proceedings of the 19th International Cryogenic Engineering Conference (ICEC 19)* Guy Gistau Baguer, Peter Seyfert, 2003 This volume documents the Proceedings of the Nineteenth International Cryogenic Engineering Conference Grenoble France 2002 Comprising 7 plenary papers and 185 contributed papers and posters dealing with the latest developments in all aspects of Cryogenics The areas covered include Large Scale Refrigeration and liquefaction Cryogenic Hydrodynamics Large Cryogenic Systems HTS and LTS Superconductor Applications Cryogen Storage and Distribution Cryogenic Components and Machinery Air and Gas Separation and Purification Cryogenic Instrumentation and Process Control Cryocoolers Cryogenic for Medicine and Biology Superfluid Helium Material and Fluid Properties Aerospace Cryogenics Heat Transfer and Thermal Insulation **Automatic Welding**, 1980 The Electrician, 1898 **Electrical Engineer's Reference Book** G R Jones, 2013-10-22 A long established reference book radical revision for the fifteenth edition includes complete rearrangement to take in chapters on new topics and regroup the subjects covered for easy access to information The Electrical Engineer's Reference Book first published in 1945 maintains its original aims to reflect the state of the art in electrical science and technology and cater for the needs of practising engineers Most chapters have been revised and many augmented so as to deal properly with both fundamental developments and new technology and applications that have come to the fore since the fourteenth edition was published 1985 Topics covered by new chapters or radically updated sections include digital and programmable electronic systems reliability analysis EMC power electronics fundamental properties of materials optical fibres maintenance in power systems electroheat and welding agriculture and horticulture aeronautic transportation health and safety procurement and purchasing engineering economics **Electrical Engineer of Australia & New Zealand**, 1924 IEEE Technical Papers Presented at the ... Joint ASME/IEEE/AAR Railroad Conference, 1984 **Engineering Record, Building Record and Sanitary Engineer** Henry Coddington Meyer, Charles Frederick Wingate, 1900 The Electrical Journal, 1915 Electrical World, 1904 *The Mechanical Engineer* William Henry Fowler, 1916-07

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