DESCRIPTION

THE COMPLETE CABLING GUIDE #UPDATED WITH THE LATEST IN FIBER-OPTICS TECHNOLOGY

Poor cabling accounts for nearly 70% of network problems. *Cabling: The Complete Guide to Copper and Fiber-Optic Networking, 5th Edition* is the industry-leading guide to helping you develop the skills you need to design and build reliable, cost-effective cabling infrastructure. This fifth edition has been fully updated with the latest industry standards and a deeper look into fiber-optics, helping professionals meet the growing demands of large-scale communities that require fiber-optics networks rather than traditional copper.

- An introduction to data cabling
- Cabling specifications and standards
- Choosing the correct cabling
- Cable system components and infrastructure constraints
- Network equipment
- Fiber-optic, copper, and wireless media
- Design considerations for fiber-optic systems
- Principles of fiber-optic transmission
• Passive components, multiplexers, and optical networks

• Testing equipment, link/cable testing, troubleshooting, and restoration

This comprehensive resource is packed with expert advice and best practices for implementing data center, local, access, metropolitan and wireless networks with data rates ranging from 100Mbps to 100Gbps using copper and fiber-optic cabling. This guide was written with the support of the Electronics Technicians Association (ETA) to provide authoritative coverage of the Fiber Optics Installer (FOI), Fiber Optics Technician (FOT) and Data Cabling Installer (DCI) certifications.

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#### ABOUT THE AUTHOR

**Andrew Oliviero** is Director of Product Line Management of optical fiber products at OFS, a supplier of optical fiber, cable apparatus and specialty products. He is involved in the development of optical fiber cabling standards in TIA, IEC, ISO, and IEEE. He was involved in the development of the ANSI /TIA A-568-C standard and held the Chair position of TIA A's Fiber Optic LAN Section in 2007. Oliviero holds a B.S.E and Ph.D. in Chemical Engineering from the University of Pennsylvania and the University of Massachusetts.

**Bill Woodward** has been working with and teaching fiber optics since 1992. He is chairman of SAE International's Aerospace Fiber Optics and Applied Photonics Committee, AS-3 and chairman of the AS-3B2 Education and Design Working Group. He has also served four terms as chairman of the Electronics Technicians Association; in addition, he is chairman of the committees responsible for the FOI, FOT and DCI certifications.

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