



Electrical Wiring Residential

By Ray C. Mullin, Phil Simmons

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Editorial Review

Review

1. General Information for Electrical Installations. 2. Electrical Symbols and Outlets. 3. Determining the Required Number of Lighting Outlets, Receptacle Outlets, and Small-Appliance Branch Circuits. 4. Conductor Sizes and Types, Wiring Methods, Wire Connections, Voltage Drop, and Neutral Conductor Sizing for Services. 5. Conductor Identification, Switch Control of Lighting Circuits, Bonding/Grounding of Wiring Devices, Induction Heating. 6. Ground-Fault Circuit Interrupters, Arc-Fault Circuit Interrupters, Transient Voltage Surge Suppressors, Immersion Detection Circuit Interrupters, and Appliance Leakage Current Interrupters. 7. Luminaires, Ballasts, and Lamps. 8. Lighting Branch Circuit for the Front Bedroom. 9. Lighting Branch Circuit for the Master Bedroom. 10. Lighting Branch Circuit--Bathrooms, Hallway. 11. Lighting Branch Circuit--Front Entry, Porch. 12. Lighting Branch Circuit and Small-Appliance Circuits for the Kitchen. 13. Lighting Branch Circuit for the Living Room. 14. Lighting Branch Circuit for the Study/Bedroom. 15. Dryer Outlet, Lighting, and Receptacle Circuits for the Laundry, Powder Room, Rear Entry Hall, and Attic. 16. Lighting Branch Circuit for the Garage. 17. Recreation Room. 18. Lighting Branch Circuit, Receptacle Circuits for Workshop. 19. Special-Purpose Outlets--Water Pump, Water Heater. 20. Special-Purpose Outlets for Ranges, Counter-Mounted Cooking Unit G, and Wall-Mounted Oven. 21. Special-Purpose Outlets--Food Waste Disposer, Dishwasher. 22. Special-Purpose Outlets for the Bathroom Ceiling Heat/Vent/Lights, the Attic Fan, and the Hydromassage Tub. 23. Special-Purpose Outlets--Electric Heating, Air Conditioning. 24. Gas and Oil Central Heating Systems. 25. Television, Telephone, and Low-Voltage Signal Systems. 26. Smoke, Heat, and Carbon Monoxide Alarms, and Security Systems. 27. Service-Entrance Equipment. 28. Overcurrent Protection--Fuses and Circuit Breakers. 29. Service-Entrance Calculations. 30. Swimming Pools, Spas, Hot Tubs, and Hydromassage Baths. 31. Wiring for the Future: Home Automation Systems. 32. Standby Power Systems. 33. Residential Utility Interactive Photovoltaic Systems. Specifications for Electrical Work--Single-Family Dwelling. Appendix. IAEI Membership Application Form. Key Terms. Web Sites. Index (Code and Subject). Plans for Single-Family Dwelling. Sheet 1 of 10 Basement Plan. Sheet 2 of 10 Floor Plan. Sheet 3 of 10 South (Front) Elevation; Window Schedule, Door Schedule. Sheet 4 of 10 East (Right) Elevation; Interior Elevations. Sheet 5 of 10 North (Rear) Elevation; Plot Plan. Sheet 6 of 10 West (Left) Elevation; Room Finish Schedule. Sheet 7 of 10 Section A-A. Sheet 8 of 10 Electrical Basement Plan. Sheet 9 of 10 Electrical Floor Plan. Sheet 10 of 10 Code Requirements for Swimming Pool Wiring. Blank Floor Plan First Floor. Blank Floor Plan Basement.

About the Author

Ray C. Mullin is a former electrical instructor for the Wisconsin Schools of Vocational, Technical, and Adult Education. Prior to his retirement, he served as district manager, regional manager, regional vice president, and ultimately director technical liaison for a major electrical manufacturer. He also served on the National Fire Protection Association (NFPA) Code Making Panel 4 of the National Electrical Code. A former journeyman and supervisor for residential, commercial, and industrial installations, he has taught electrical apprentice and journeyman courses, conducted numerous technical and code seminars, written many articles for electrical trade publications, and consulted for electrical equipment manufacturers on legal issues. A former member of the Executive Board of the Western Section of the International Association of Electrical Inspectors, he is a member of the Institute of Electrical and Electronic Engineers and NFPA, Electrical Section. He attended the University of Wisconsin, Milwaukee School of Engineering, and Colorado State University.

Phil Simmons is the founder of Simmons Electrical Services, where he consults on the National Electrical Code (NEC) and other codes. Mr. Simmons also writes, edits, illustrates, and produces technical

publications, and provides plan review of electrical construction documents and inspection of complex electrical installations. In addition to developing training programs related to electrical codes and safety, he has presented on these subjects at numerous seminars and conferences for universities, the National Fire Protection Association (NFPA), the International Association of Electrical Inspectors (IAEI), the U.S. Department of Defense, and private clients. He has also consulted on lawsuits involving electrical injury and property damage and is the co-author and illustrator of numerous textbooks on electrical topics. Mr. Simmons serves NFPA on Code Making Panel 5 of the NEC Committee (grounding and bonding), and he previously served on several other Code Making Panels, on the NFPA Standards Council, the NEC Technical Correlating Committee, the IAEI, and Underwriters Laboratories. He is a retired member of the International Brotherhood of Electrical Workers.

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