

# Michigan Home Theatre's Home Wiring Guide

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**Infrastructure Wiring**

**Structured Cabling System**

**The Ultimate Home Investment**

## The Spinal Cord of the Home – Infrastructure Wiring

Low Voltage communication wiring, also called “infrastructure wiring,” is the spinal cord of any home. Infrastructure wiring spans the spectrum, and includes systems from basic to top-of-the-line. Whether your home is wired for phone, cable TV, and Internet, or you have the ultimate home control system allowing you to control your home’s security, HVAC, lighting, audio, video, and telecommunication systems from a touch screen panel, the infrastructure wiring behind it is extremely important.

The proper infrastructure wiring allows new homes to be compatible with emerging technology, while meeting the Federal Communications Commission’s residential wiring regulations. While becoming the cabling standard for new homes built today, the majority of new homes are not wired adequately to meet even current phone, computer, and video distribution needs.

Infrastructure home wiring offers the flexibility that today’s home owners are looking for. You can make your own multipurpose room that is a fully functioning office during the day, and by night is a den of activity with you and the kids downloading favorite CDs as soothing music plays overhead and you catch up with the home finances via online banking.

## Why Install a Structured Cabling System?

The physical foundation of a structured cabling system is necessary for access to digital technology in your home. High-bandwidth performance cables, including multi-line Category 5 (CAT-5) cabling, UTP (Unshielded Twisted Pair) cabling and RG-6 cabling, are run throughout the home. The cables are run in a specific configuration, known as “Star Topology,” that provides the bi-directional flow of information that is critical for today’s technology – and will be more so for tomorrow’s!

Not only can these cables (CAT-5 and RG-6) carry voice/data and video/audio signals respectively, now they can carry video/audio and voice/data signals. Category grade cable is likely to become the standard interface cable in increasing numbers of consumer devices, regardless of whether they are communication or entertainment components.

## The Ultimate Home Investment

The heart of the matter is that your home is your biggest and best investment. Installing an infrastructure system that allows your home to remain compatible with your communication and entertainment reinforces this investment. Cabling for home theater rooms, surround sound systems, multimedia/audio controllers, high-definition receivers, HDTV, and even plasma TV is becoming increasingly popular.

Make sure your new home can grow with you and with the technology of the future! Cabling professionals can help you design and implement a scalable infrastructure wiring system that will fit your home and suit your needs.

**Home Wiring Guide** brought to you by *Michigan Home Theatre*.

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