

TechHome[®] Rating System

Service Pre-wire Specifications		From incoming Service to Head-end¹
Required as a baseline installation for TechHome Bronze, Gold or Platinum		
TV Service Pre-wire Requirement From where any of the TV service signal sources listed enter the home, depending on the service available, use the cable and the number of runs specified for that signal source and home-run the cable(s) to the head-end. ¹	Over-the-air Antenna ²	RG6 Quad
	Cable Gateway	RG6 Quad
	Satellite Dish	5x RG6 Quad
Radio Antenna Pre-wire Requirement From an antenna located outside the home or in the attic, for any of the radio signal sources listed, use the cable specified for each signal source and home-run it to the head-end. ¹	AM antenna	22 AWG Shielded
	FM antenna	RG6 Quad
	Satellite Radio antenna	RG6 Quad
Telecommunications Service Pre-wire Requirement From where the telecommunications service enters the home at the Network Interface Device, use the cable specified and home-run it to the head-end. ¹	Network Interface Device	Cat6/Cat5e

Notes:

*This service pre-wire is required as a baseline installation for any of the three TechHome Rating levels: Bronze, Gold or Platinum
 All cables listed are the minimum cable specification for the application. Higher performance cable or heavier wire gauge may be substituted.*

¹*All cable should be home-run from the service entry point or point of origin outside the house to the head-end located in common area where Telco and CATV reside.*

²*Antenna needed to receive over-the-air broadcasts of local TV stations' uncompressed HDTV programs. Check www.Antennawb.org for correct antenna for your zip code.*

TechHome [®] Bronze Rating Specifications		Standard Rooms			
		Kitchen	Family Room ¹	Master Bedroom	All other bedrooms
Video Pre-wire Requirement Each standard room must be pre-wired with the minimum cable specifications and number of runs listed. Higher performance cable may be substituted as indicated. This pre-wire specification will allow for either local viewing of HDTV and video; or a multi-room video distribution system with infrared (IR), Serial Data Port, or Ethernet control for a local video display, local set-top box (STB), local DVD and receiver. ^{2, 4, 5}	TV/Video Signal	2x RG6 Quad			
	Control/Digital Video	2x Cat6/Cat5e			
Networking & Communications Pre-wire Requirement Each standard room must be pre-wired with the minimum cable specifications listed. Higher performance cable may be substituted as indicated. ^{2, 5, 6}	For data, use <i>one dedicated run</i> of the cable specified from the head-end to each standard room. ^{2, 6}	Cat6/Cat5e			
	For telephone, use <i>one dedicated run</i> of the cable specified from the head-end to each standard room. ^{2, 6}	Cat6/Cat5e			

Home Theater/Media Room Pre-wire Requirement At a <i>minimum</i> each home should have <i>one</i> room pre-wired for Home Theater/Multi-media with the cables and number of cable runs specified. Higher performance cable may be substituted as indicated. <i>Specifications at right are for the dedicated home theater/media room only.</i> ⁷	Display⁸	Digital Video	2x Cat6/Cat5e or HDMI
		Component Video	3x RG6 Quad or 3/5 RGB
		Composite Video	RG6 Quad
		Audio	2x RG6 Quad or RGB + 22/4 SHLD
	Speakers	16/2 for 5.1 or 7.1	
	Subwoofer	1x 16/4 and 1x RG6 Quad	

Notes:

TechHome Service Pre-wire required as a baseline installation for TechHome Bronze.

All cables listed are the minimum cable specification for the application. Higher performance cable or heavier wire gauge may be substituted.

¹Family Room can be omitted if this room serves as the Home Theater/Media Room.

²When layout allows, all cables should be home-run from room to the head-end located in a common area where Telco and CATV reside.

³Antenna needed to receive over-the-air broadcasts of local TV stations' uncompressed HDTV programs. Check www.Antennawb.org for correct antenna for your zip code.

⁴When using a multi-room video distribution system, use of additional electronics/hardware for Component Video or HDMI may be required based on configuration.

⁵Following the TechHome Infrastructure Guidelines will make implementation of a complete integrated home control solution possible. When evaluating equipment for your home, it is important to select equipment or systems that can be controlled through a third-party system via Internet Protocol (IP), Serial Data Port or infrared (IR). For example: If a multi-room video distribution system is installed as a stand-alone system, the system installed must be able to be communicated to and/or controlled by another system. This should be considered before installing any home control, lighting control, or safety and security system. Following this guideline will make integrating all technology in the home seamless.

⁶The Multi-room Video Pre-wire Requirement provides for this cabling and does satisfy the Networking and Communications requirement for the TechHome Bronze Rating. However, this will limit overall flexibility to possible installed systems and point-of-device placement in room. It would greatly benefit the functionality of a home to have a second set of dedicated Cat6/Cat5e run to each of the standard rooms for the Networking & Communications Pre-wire Requirement.

⁷It is best practice to loop wire from head-end in room where possible local equipment may reside. This will allow for local and or head-end equipment configuration.

⁸Composite Video, Component Video or HDMI may be required based on configuration.

TechHome® Gold Rating Specifications		Standard Rooms					
		Kitchen	Living Room	Dining Room	Family Room ¹	Outdoor Space	Master Bedroom
Multi-room Audio Pre-wire Requirement Each standard room must be pre-wired with the minimum cable specifications and number of runs listed. Higher performance cable may be substituted as indicated. This pre-wire specification will allow for either local listening of audio or a multi-room audio distribution system with infrared (IR), Serial Data Port, or Ethernet control for program and volume at local speakers. ^{2,3}	Speaker Level Audio	16/4					
	Control Cable ⁴	2x Cat6/Cat5e					
	Line Level Audio ⁵	22/4 or Cat6/Cat5e					

		Standard Rooms			
		Kitchen	Family Room ¹	Master Bedroom	All other bedrooms
Video Pre-wire Requirement Each standard room must be pre-wired with the minimum cable specifications and number of runs listed. Higher performance cable may be substituted as indicated. This pre-wire specification will allow for either local viewing of HDTV and video; or a multi-room video distribution system with infrared (IR), Serial Data Port, or Ethernet control for a local video display, local set-top box (STB), local DVD and receiver. ^{2,3,7}	TV/Video Signal	2x RG6 Quad			
	Control/Digital Video	2x Cat6/Cat5e			
	Data/Voice	Cat6			
Networking & Communications Pre-wire Requirement Each standard room must be pre-wired with the minimum cable specifications listed. Higher performance cable may be substituted as indicated. ^{2,3,8}	For data, use <i>one dedicated run</i> of the cable specified from the head-end to each standard room. ^{2,8}	Cat6/Cat5e			
	For telephone, use <i>one dedicated run</i> of the cable specified from the head-end to each standard room. ^{2,8}	Cat6/Cat5e			

Home Theater/Media Room Pre-wire Requirement At a <i>minimum</i> each home should have <i>one</i> room pre-wired for Home Theater/Multi-media with the cables and number of cable runs specified. Higher performance cable may be substituted as indicated. <i>Specifications at right are for the dedicated home theater/media room only.</i> ⁹	Display ¹⁰	Digital Video	2x Cat6/Cat5e or HDMI
		Component Video	3x RG6 Quad or 3/5 RGB
		Composite Video	RG6 Quad
		Control	2x Cat6/Cat5e
		Audio	2x RG6 Quad or RGB + 22/4 SHLD
	Speakers	16/2 for 5.1 or 7.1	
	Subwoofer	1x 16/4 and 1x RG6 Quad	

Safety & Security Requirement

When evaluating security system equipment to qualify for TechHome Gold, your alarm panel must allow for control via Internet Protocol (IP), or Serial Data Port. If the installed panel does not have an internal IP or Serial controller, it must be an optional accessory for that specific panel to complete this requirement.³

Lighting Control Requirement

When evaluating lighting control equipment for your home, it is important to select equipment or systems that can be controlled through a 3rd party system via Internet Protocol (IP), Serial Data Port or infrared (IR).³

Complete Home Control Requirement

When evaluating technology products for your home, it is important to select equipment or systems that can be communicated to and/or controlled by a third-party system via Internet Protocol (IP), Serial Data Port or infrared (IR).³

Notes:

TechHome Service Pre-wire required as a baseline installation for TechHome Gold.

All cables listed are the minimum cable specification for the application. Higher performance cable or heavier wire gauge may be substituted.

¹*Family Room can be omitted if this room serves as the Home Theater/Media Room.*

²*When layout allows, all cables should be home-run from room to the head-end located in a common area where Telco and CATV reside.*

³*Following the TechHome Infrastructure Guideline will make implementation of a complete integrated home control solution possible. When evaluating equipment for your home, it is important to select equipment or systems that can be controlled through a third-party system via Internet Protocol (IP), Serial Data Port or infrared (IR). For example: If a multi-room video distribution system is installed as a stand-alone system, the system installed must be able to be communicated to and/or controlled by another system. This should be considered before installing any home control, lighting control, or safety and security system. Following this guideline will make integrating all technology in the home seamless.*

⁴*Control Cable for each room should terminate in single-gang low-voltage wall box. It is best practice to have the in-room controller wall box at 55" A.F.F., which is higher than standard wall switch height.*

⁵*Addition of Line Level Audio for house feed to surround sound receiver*

⁶*Antenna needed to receive over-the-air broadcasts of local TV stations' uncompressed HDTV programs. Check www.Antennawb.org for correct antenna for your zip code.*

⁷*When using a multi-room video distribution system, use of additional electronics/hardware for Component Video or HDMI may be required based on configuration.*

⁸*The Multi-room Video Pre-wire Requirement provides for this cabling and does satisfy the Networking and Communications requirement for the TechHome Gold Rating. However, this will limit overall flexibility to possible installed systems and point-of-device placement in room. It would greatly benefit the functionality of a home to have a second set of dedicated Cat6/Cat5e run to each of the standard rooms for the Networking & Communications Pre-wire Requirement.*

⁹*It is best practice to loop wire from head-end in room where possible local equipment may reside. This will allow for local and or head-end equipment configuration.*

¹⁰*Composite Video, Component Video or HDMI may be required based on configuration.*

TechHome [®] Platinum Rating Specifications		Standard Rooms						
		Kitchen	Living Room	Dining Room	Family Room ¹	Outdoor Space	Master Bedroom	Master Bathroom
Multi-room Audio Pre-wire Requirement Each standard room must be pre-wired with the minimum cable specifications and number of runs listed. Higher performance cable may be substituted as indicated. This pre-wire specification will allow for either local listening of audio or a multi-room audio distribution system with infrared (IR), Serial Data Port, or Ethernet control for program and volume at local speakers. ^{2,3}	Speaker Level Audio	16/4						
	Control Cable ⁴	2x Cat6/Cat5e						
	Line Level Audio ⁵	22/4 or Cat6/Cat5e						

		Standard Rooms				
		Kitchen	Family Room ¹	Master Bedroom	All other bedrooms	Home Office
Networking & Communications Pre-wire Requirement Each standard room must be pre-wired with the minimum cable specifications listed. Higher performance cable may be substituted as indicated. ^{2,3}	For data, use <i>one dedicated run</i> of the cable specified from the head-end to each standard room. ²	Cat6/Cat5e				
	For telephone, use <i>one dedicated run</i> of the cable specified from the head-end to each standard room. ²	Cat6/Cat5e				

		Standard Rooms			
		Kitchen	Family Room ¹	Master Bedroom	All other bedrooms
Video Pre-wire Requirement Each standard room must be pre-wired with the minimum cable specifications and number of runs listed. Higher performance cable may be substituted as indicated. This pre-wire specification will allow for either local viewing of HDTV and video; or a multi-room video distribution system with infrared (IR), Serial Data Port, or Ethernet control for a local video display, local set-top box (STB), local DVD and receiver. ^{2,3,7}	TV/Video Signal	2x RG6 Quad			
	Control/Digital Video	3x Cat6/Cat5e			
	Data/Voice	Cat6			

Wall-mounted Display Pre-wire Requirement For installation of a wall-mounted video display, from the head-end to the display location, pre-wire with the minimum cable specifications and number of runs listed. Higher performance cable may be substituted as indicated. ^{2,8}	Digital Video	2x Cat6/Cat5e or HDMI
	Component Video	3x RG6 Quad or 3/5 RGB
	Composite Video	RG6 Quad
	Control	2x Cat6/Cat5e
	Audio	2x RG6 Quad or RGB + 22/4 SHLD

Home Theater/Media Room Pre-wire Requirement At a <i>minimum</i> each home should have one room pre-wired for Home Theater/Multi-media with the cables and number of cable runs specified. Higher performance cable may be substituted as indicated. <i>Specifications at right are for the dedicated home theater/media room only.</i> ⁸	Display⁹	Digital Video	2x Cat6/Cat5e or HDMI
		Component Video	3x RG6 Quad or 3/5 RGB
		Composite Video	RG6 Quad
		Control	2x Cat6/Cat5e
		Audio	2x RG6 Quad or RGB + 22/4 SHLD
	Display Conduit	1 x 1 1/2" Smurf Tubing or similar Conduit From Display to Loop Location and From Loop Location to Head End	
Speakers	16/2 for 5.1 or 7.1		
Subwoofer	1x 16/4 and 1x RG6 Quad		
Safety & Security Requirement When evaluating security system equipment to qualify for TechHome Gold, your alarm panel must allow for control via Internet Protocol (IP), or Serial Data Port. If the installed panel does not have an internal IP or Serial controller, it must be an optional accessory for that specific panel to complete this requirement. ³			
Lighting Control Requirement When evaluating lighting control equipment for your home, it is important to select equipment or systems that can be controlled through a 3rd party system via Internet Protocol (IP), Serial Data Port or infrared (IR). ³			
Complete Home Control Requirement When evaluating technology products for your home, it is important to select equipment or systems that can be communicated to and/or controlled by a third-party system via Internet Protocol (IP), Serial Data Port or infrared (IR). ³			

Notes:

TechHome Service Pre-wire required as a baseline installation for TechHome Platinum.

All cables listed are the minimum cable specification for the application. Higher performance cable or heavier wire gauge may be substituted.

¹*Family Room can be omitted if this room serves as the Home Theater/Media Room.*

²*When layout allows, all cables should be home-run from room to the head-end located in a common area where Telco and CATV reside.*

³*Following the TechHome Infrastructure Guideline will make implementation of a complete integrated home control solution possible. When evaluating equipment for your home, it is important to select equipment or systems that can be controlled through a third-party system via Internet Protocol (IP), Serial Data Port or infrared (IR). For example: If a multi-room video distribution system is installed as a stand-alone system, the system installed must be able to be communicated to and/or controlled by another system. This should be considered before installing any home control, lighting control, or safety and security system. Following this guideline will make integrating all technology in the home seamless.*

⁴*Control Cable for each room should terminate in single-gang low-voltage wall box. It is best practice to have the in-room controller wall box at 55" A.F.F., which is higher than standard wall switch height.*

⁵*Addition of Line Level Audio for house feed to surround sound receiver*

⁶*Antenna needed to receive over-the-air broadcasts of local TV stations' uncompressed HDTV programs. Check www.Antennawb.org for correct antenna for your zip code.*

⁷*When using a multi-room video distribution system, use of additional electronics/hardware for Component Video or HDMI may be required based on configuration.*

⁸*It is best practice to loop wire from head-end in room where possible local equipment may reside. This will allow for local and or head-end equipment configuration.*

⁹*Composite Video, Component Video or HDMI may be required based on configuration.*