



QUICK GUIDE TO SMART WIRING™

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COPPER
Copper Development Centre • Australia Ltd

QUICK GUIDE TO SMART WIRING™

The following 5 steps will help you understand what sort of technology you may want in your home, and an idea of the basic cabling and wiring you need to get it.

While you may not want to have all the high-tech options and equipment that are possible right now, making sure that you put in the right cabling and outlets while you're building or renovating means you still have all the options later on.

That means your home will be set up to make the most of technology today - and in the future.

OUR FIVE STEPS ARE:

Step 1

What Services are Possible & What Cabling is Needed

Step 2

Select the Services You Want

Step 3

Mark out Your House Plans

Step 4

Review Your Plans

Step 5

Issue documents to get a Quote

***Note:** You, as the home owner, need not be technical - you simply need to know which services you want to have today and in the future and use this guide to get the right cabling in place.*



STEP 1

What services are possible & what cabling is needed?








| SYMBOL | SERVICE REQUIRED | SERVICE PLATFORM | MINIMUM REQUIREMENTS |
|---|------------------------------|---|--|
|  | Communications | Cabling for telephone and internet services in every living area, and a Wireless Access Point. | A minimum of two outlets and associated cabling must be installed in each living area to support telephone and internet services plus one outlet located for the installation of a Wireless Access Point. |
|  | Entertainment | Cabling for free to air and pay TV services in every living area. | A minimum of two outlets and associated cabling must be installed per living area for television (Free to air and Pay TV). |
|  | Energy management | Cabling for the control of the hot water system, air conditioning and pool pump. | A minimum of one RJ45 outlet and associated cabling must be installed next to the hot water system, air conditioning units, pool pump and the electricity meter. |
|  | Security | Cabling for a back to base security system to be installed. It also has smoke detectors installed and functioning and capability to install a CCTV camera in the front door area. | Sufficient movement sensors to detect an intrusion into the home, plus a code pad at the front door. Smoke detectors installed and functioning. |
|  | Digital Home Health | Cabling for medical devices to be connected to the internet in addition to meeting the requirements for communications and security services detailed above. | Data outlets and associated cabling must be installed to allow for the installation of a Wireless Access Point to be configured at a later stage and a power point, if not already installed under communications. |
|  | Age & Assisted Living | Cabling to provide intercom to the front door, assistance/emergency call buttons to be installed and all cabling outlets are located in easily accessible location. | Intercom connection points and associated cabling must be installed from the front door to the main living areas and main rooms. Assistance call button connection points must be installed in bathrooms and main living areas. Power points and light switches installed at a height easily accessible to people with physical disabilities. |
|  | Intelligent Lighting & Power | Lights and power points are able to be managed. | A minimum of one light fitting and one power point is wired to allow for the connection to a management system in each living area. |

Table 1 - Definition of Service and minimum requirements

MINIMUM REQUIREMENTS

The above chart shows the **minimum cabling requirements** for a consumer to ascertain if their home has the technology infrastructure in place and meets the requirements of the Code of Practice for Home Wiring.

Living area refers to dining room, living room, family rooms, bedrooms, kitchens, study, theatre room, rumpus room, spare rooms, workshop etc. All cabling provided under the specification will meet the minimum requirements as specified in the Code of Practice for Home Wiring and be installed in accordance with this guide.

The Code of Practice for Home Wiring and the Installer's Handbook for Home Wiring comply with all relevant Australian Standards and have been developed by the industry to set a minimum cabling platform that will deliver the potential of the many technologies available today.

STEP 2

Selecting what services you want

| SERVICE NAME | | TO BE PROVIDED | PERSONAL NOTES: |
|--|--|-------------------------------------|------------------------------|
|  Communications | | <input checked="" type="checkbox"/> | internet, phone line |
|  Entertainment | | <input checked="" type="checkbox"/> | foxtel outlet, hifi |
|  Energy management | | <input checked="" type="checkbox"/> | Pool timer, Hot water system |
|  Security | | <input checked="" type="checkbox"/> | Garage Security Cam |
|  Digital Home Health | | <input type="checkbox"/> | |
|  Age & Assisted Living | | <input type="checkbox"/> | |
|  Intelligent Lighting & Power | | <input type="checkbox"/> | |

Table 2 - Selecting which services are required

STEP 3

Mark out your house plans

All you need to do is mark where you want the communications, entertainment and power points and light fittings and indicate where the main appliances are. Your installer will do the rest for you.

| SERVICE REQUIRED | SYMBOL |
|---|------------------|
| 1. Communications (Where you want your Communication Outlets) | COM |
| 2. Entertainment (Where you want your Entertainment Outlets) | EO |
| 3. Energy Management (Main appliances - if not already marked) | HWS AIR PO |
| 4. Power & Lighting (Power points and light fittings and switches - typically done by the architect or builder) | PP LF LS |

Table 3 - Symbols to use on the plans

If you require Security, Digital Home Health, Age & Assisted Living and Intelligent Lighting & Power, your installer will do this in accordance with the Code of Practice for Home Wiring and Installer Handbook for Home Wiring which are available for you to download from www.smartwiredhouse.com.au/trade

SAMPLE MARKED HOUSE PLAN:

This sample below shows the communications, entertainment and main appliances locations.

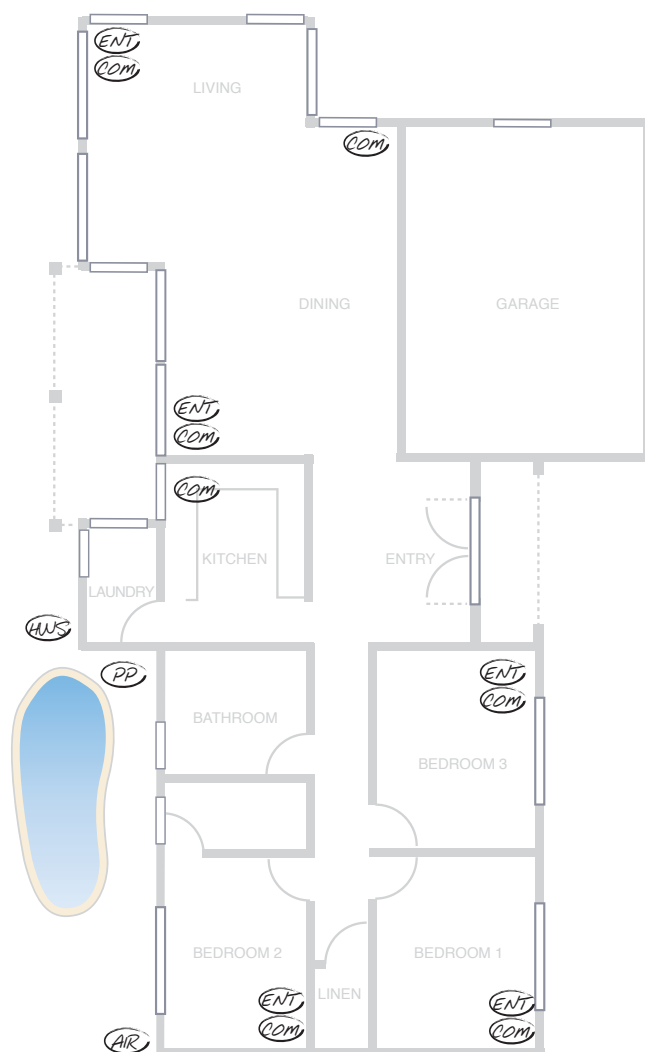


Figure 1 - Sample marked up house plans

STEP 4

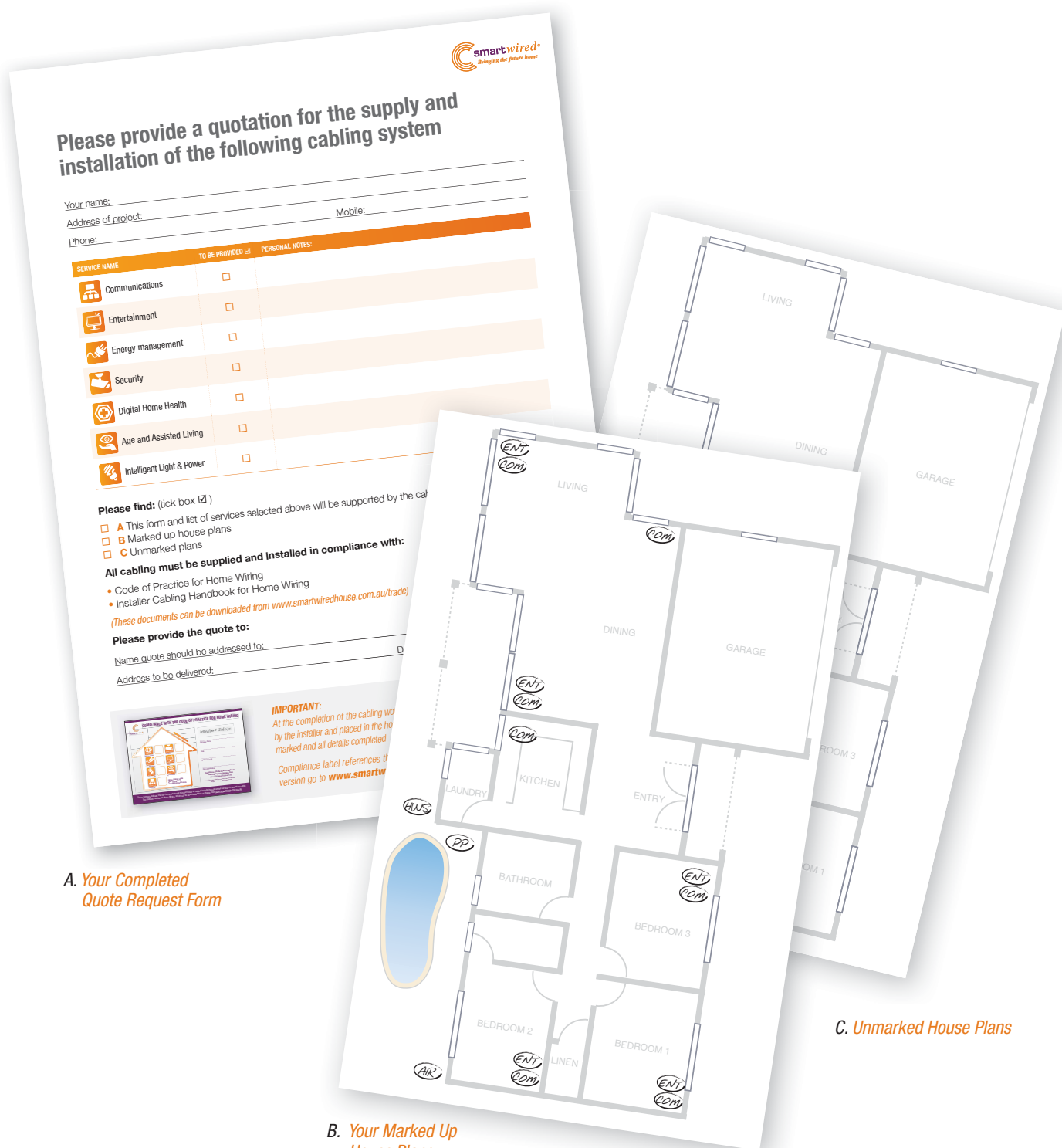
Review step 2 and 3 and make sure it allows for your needs



STEP 5

Issue documents to get a quote

Preparing the documentation is easy. Simply print out the Quote Request form on the next page, fill out your personal details and your list of required services. Attach your marked up house plans and a set of unmarked house plans and give to your builder to obtain a quote.










Please provide a quotation for the supply and installation of the following cabling system

Your name: _____

Address of project: _____

Phone: _____

Mobile: _____

| SERVICE NAME | TO BE PROVIDED <input checked="" type="checkbox"/> | PERSONAL NOTES: |
|--|--|-----------------|
|  Communications | <input type="checkbox"/> | |
|  Entertainment | <input type="checkbox"/> | |
|  Energy Management | <input type="checkbox"/> | |
|  Security | <input type="checkbox"/> | |
|  Digital Home Health | <input type="checkbox"/> | |
|  Age & Assisted Living | <input type="checkbox"/> | |
|  Intelligent Lighting & Power | <input type="checkbox"/> | |

Please find: (tick box ☒)

- ☐ **A** This form and list of services selected above will be supported by the cabling being specified
- ☐ **B** Marked up house plans
- ☐ **C** Unmarked plans

All cabling must be supplied and installed in compliance with:

- Code of Practice for Home Wiring
- Installer Cabling Handbook for Home Wiring

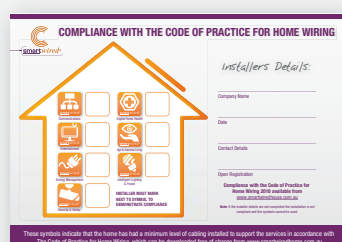
(These documents can be downloaded from www.smartwiredhouse.com.au/trade)

Please provide the quote to:

Name quote should be addressed to: _____

Address to be delivered: _____

Date when required: _____ / _____ / _____



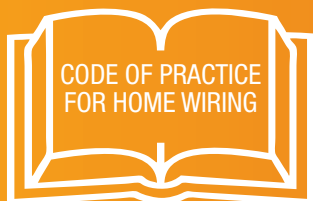
IMPORTANT:

At the completion of the cabling work the compliance label should be completed by the installer and placed in the home distributor with the applicable services marked and all details completed.

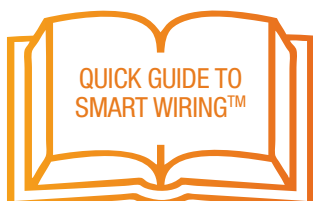
Compliance label references the Code of Practice version. For the latest version go to www.smartwiredhouse.com.au

MORE READING

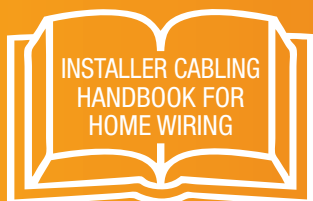
You are now more knowledgeable on how to get a smarter home. If you want to know more, or you think your builder or electrician also needs to get up to speed, then take a look at the other two books in this series - visit **www.smartwiredhouse.com.au** to download your copy today.



This document sets out the building cabling platform standards to be complied with.



This document is designed for the consumer to easily communicate to the installer what services they want without the need to have detailed knowledge of each technology area.

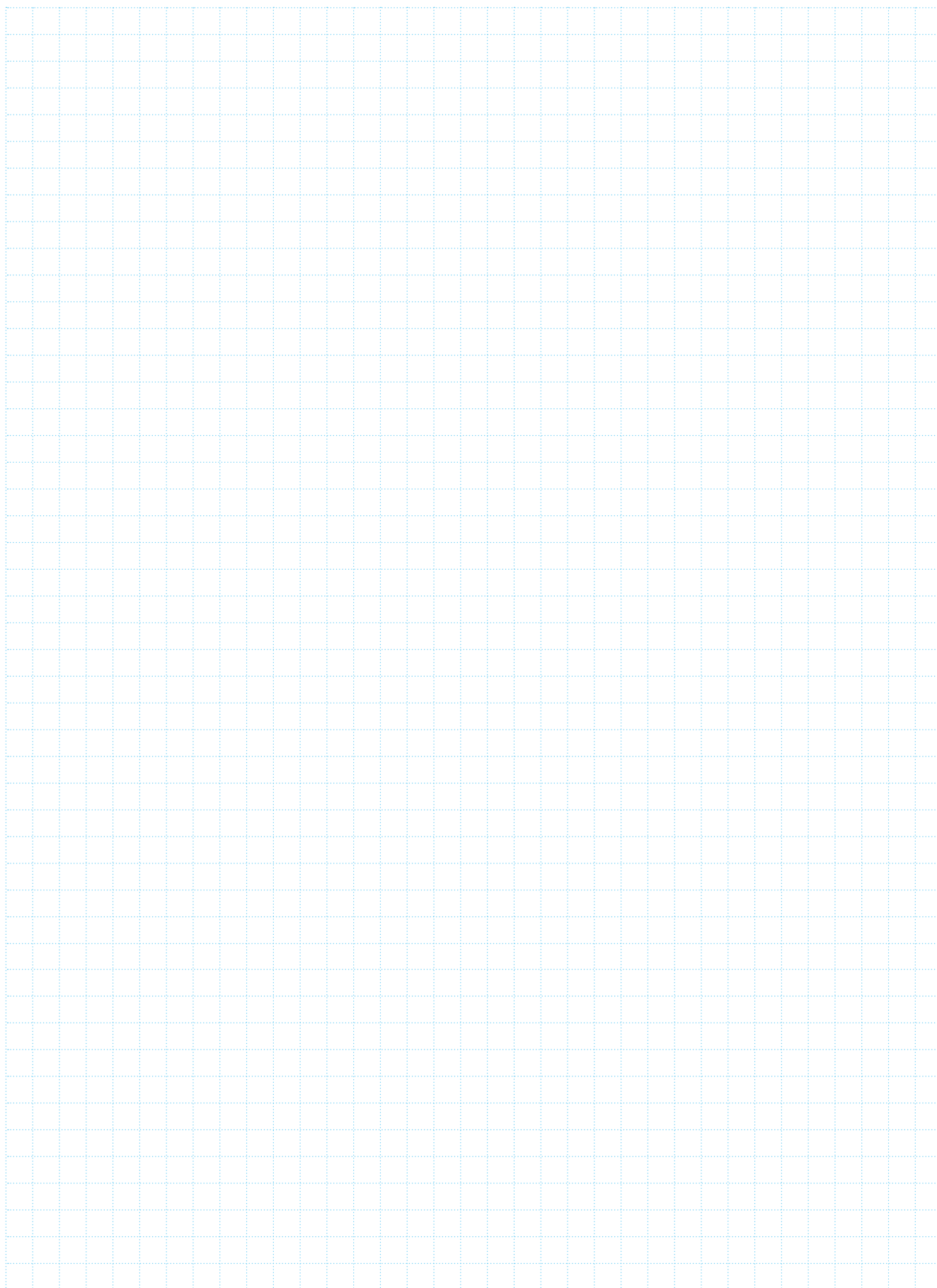


This document provides details to the installer of the cabling required to meet the consumer expectations and comply with the standards

CONTRIBUTORS



NOTES/ HOUSE PLAN





This document lays out the minimum levels of cabling for your home to meet the Smart Wiring™ standard. It prepares your house for Communications, Entertainment, Energy Management, Security, Digital Home Health, Age & Assisted Living and Intelligent Lighting & Power. If you want to go beyond the minimum you can find an Accredited Smart Wired™ Designer by going to www.smartwiredhouse.com.au.

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