HOME WIRING ESSENTIALS



QUICK GUIDE TO SMART WIRING

2016 EDITION



This document is proudly supported by:































QUICK GUIDE TO SMART WIRING™

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

You don't need to have all the high-tech options that are possible right now, of course. But putting in the right cabling and outlets when building or renovating means the house is set up for whatever comes along.

Better still, Smart Wiring is National Broadband Network ready and that means your home can easily handle everything fibre has to offer.

OUR FIVE STEPS ARE:

Step 1 What Services are Possible & What Cabling is Needed

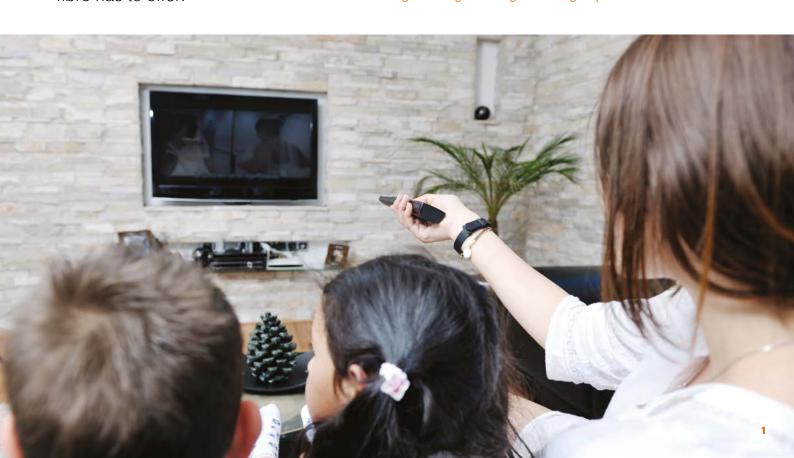
Step 2 Select the Services You Want

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 quide to get the right cabling in place.





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 outlet and associated cabling must be installed next to the hot water system, air conditioning units, pool pump and the electricity meter.
	Security & Safety	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.
	Electric Vehicle (EV) Charging	Cabling for charging of an Electric Vehicle (EV)	A minimum of one 32 Amp circuit/outlet with one RJ45 outlet and associated cabling must be installed in the main car-parking area at a location away from pedestrian thoroughfares

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 room, bedroom, kitchen, study, theatre room, rumpus room, spare room, 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





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.

SAMPLE MARKED HOUSE PLAN:

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

SERVICE REQUIRED	SYMBOL
1. Communications (Where you want your Communication Outlets)	Com
2. Entertainment (Where you want your Entertainment Outlets)	ENT
3. Energy Management (Main appliances - if not already marked) - Hot Water System - Air Conditioning Main Units - Pool Pump	HWS AIR PO
 4. Power & Lighting (Power points and light fittings and switches - typically done by the architect or builder) Power Points Light Fittings Light Switches 	PP LF LS

Table 2 - Symbols to use on the plans

If you require Security & Safety, Digital Home Health, Age & Assisted Living, Intelligent Lighting & Power and Electric Vehicle Charging 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

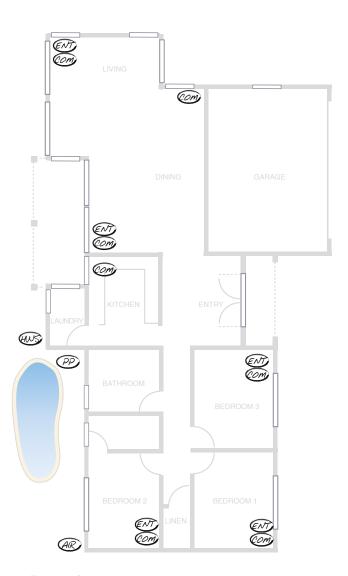


Figure 1 - Sample marked up house plans

STEP 4



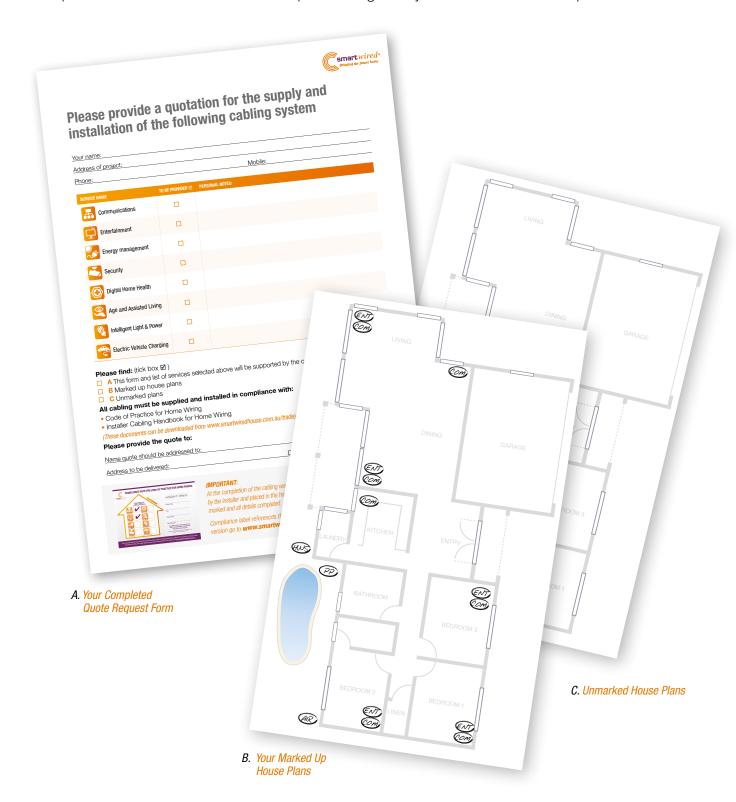
REVIEW STEP 2 AND 3 AND MAKE SURE IT ALLOWS FOR YOUR NEEDS





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.



6



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 ☑	PERSONAL NOTES:			
Communications					
Entertainment					
Energy Management					
Security & Safety					
Digital Home Health					
Age & Assisted Living					
Intelligent Lighting & Power					
Electric Vehicle Charging					
Please find: (tick box ☑)					
 A This form and list of services selected above which need to be supported by the cabling being specified. B Marked up house plans C Unmarked plans 					
All cabling must be supp	lied and insta	alled in compliance with:			
Code of Practice for HomInstaller Cabling Handbo	_	Wiring			
(These documents can be down	nloaded from w	ww.smartwiredhouse.com.au/trade)			
Please provide the quote	to:				
Name quote should be addre	ssed to:				



Address to be delivered:

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.

Date when required:

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

HOME WIRING ESSENTIALS COMPRISES OF THREE DOCUMENTS



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 and the Code of Practice for Home Wiring.

Your installer can download the documents from the Australian Registered Cabler's website by following this link: http://registeredcablers.com.au/industry/smart-wired/

CONTRIBUTORS

The handbook was developed with the support of the following organisations:



























































NOTES/ HOUSE PLAN

