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ELECTRONIC SECURITY · TASMANIA

CUSTOMER GUIDE

Structured cabling and **documentation**

Cable types, PoE, planning, testing and keeping a usable record of what is installed.

4	4	3
STEPS	CABLE TYPES	POE CLASSES

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OVERVIEW

Structured cabling **and documentation**

Every camera, access point, phone and computer depends on the cabling behind it. Done well, it is tidy, tested and easy to follow years later. This guide explains the choices and what good documentation looks like.

Tested Every run is tested on completion, with the results included in the handover.	**Labelled** Cables, patch panels and outlets labelled at both ends to one consistent scheme.	**Documented** Racks, patching, outlets and power recorded in one live record.
Cat 6 / 6A Category-rated copper chosen for the speed, distance and PoE power your devices need.	**Fibre** Fibre backbones and lead-ins between cabinets, buildings and your carrier.	**100** m The standard maximum length of a copper channel, from switch port to device.

How it is delivered

01

Plan

Racks, outlets and patching are planned before a cable is run, so the layout is agreed up front.

02

Install

Cable is installed, terminated, labelled and tested, following the plan on site.

03

Hand over

You receive test results, rack layouts and an outlet schedule the day we leave.

STEP 1

Choosing **the cable**

The right cable depends on the speed you need, the distance and whether it powers the device.

TYPE	SPEED AND DISTANCE	TYPICAL USE
Cat 6	1 Gb/s to 100 m; 10 Gb/s only up to about 55 m, depending on the installation.	Computers, phones, cameras, access points and most PoE devices.
Cat 6A	10 Gb/s to 100 m, with better performance for high-power PoE in bundles.	Wi-Fi access points, high-power PoE and anything built to last a decade or more.
Fibre (multimode)	High speeds over hundreds of metres.	Backbones between cabinets in one building or campus.
Fibre (singlemode)	High speeds over kilometres.	Links between buildings, long site runs and carrier lead-ins.

Power over Ethernet (PoE)

STANDARD	POWER AT THE SWITCH PORT	POWERS
802.3af (PoE)	Up to 15.4 W	Most fixed cameras, phones, card readers.
802.3at (PoE+)	Up to 30 W	Wi-Fi access points, cameras with heaters, some PTZs.
802.3bt (PoE++)	Up to 60 W or 90 W	Large PTZ cameras, displays and high-power devices.

> **Check the switch budget.** A switch has a total PoE budget as well as a per-port limit. Add up the devices before choosing switches and UPS.

STEP 2

Plan before **the first cable**

Five questions that save rework and make the installation easy to support.

01

Where does everything need a connection?

Mark desks, ceilings, walls and outdoor positions on a floor plan, including cameras, access points and readers, plus a few spares.

02

Where will the cabinet go?

Somewhere secure, ventilated and with power, within 90 m of every outlet it serves. Large sites need more than one.

03

What will it power?

List the PoE devices so switches, cabling category and UPS are sized together.

04

How will it be labelled?

One scheme for every cable, panel and outlet, agreed before work starts and used by everyone.

05

Who keeps the records?

Documentation only helps if it stays current. Decide who updates it after moves and changes.

DOCUMENTED IN CABVIX

Trace any outlet back to its patch panel and switch port, and scan a cabinet's QR label to open its record.

CABVIX is the network documentation software we built from years of installs. Every Securatech data installation can be handed over with a live CABVIX record.

STEP 3

What goes into **a data installation**

These are the elements we commonly install. Your quote lists the exact cabling, outlets and hardware.

COPPER

Cat 6 / Cat 6A

Category-rated cabling for computers, phones, cameras and access points.

securatech.com.au ↗

BACKBONE

Fibre

Fibre links between cabinets and buildings, and carrier lead-ins.

securatech.com.au ↗

RACKS

Racks and cabinets

Floor and wall cabinets sized for today with room to grow.

securatech.com.au ↗

PATCHING

Panels and leads

Patch panels, cable management and colour-coded leads.

securatech.com.au ↗

OUTLETS

Wall and floor outlets

Data points where people and devices need them, labelled to the panel.

securatech.com.au ↗

NETWORK

Switching and UPS

PoE switches and UPS battery backup for connected devices.

securatech.com.au ↗

WIRELESS

Wi-Fi and links

Access points and point-to-point links between buildings.

securatech.com.au ↗

RECORDS

CABVIX

Rack layouts, outlet schedules and QR labels in one record.

cabvix.com.au ↗

READ MORE ON THE OFFICIAL SITES

CABVIX	www.cabvix.com.au
Data cabling	www.securatech.com.au/services/structured-data-cabling
Network infrastructure	www.securatech.com.au/services/network-infrastructure
Maintenance plans	www.securatech.com.au/maintenance-service-plans

STEP 4

Signs of a **good installation**

Problems we often find on inherited sites, and how a structured installation avoids them.

PROBLEM

Nobody knows which cable goes where

WHAT FIXES IT

Labels at both ends and an outlet schedule that matches them.

PROBLEM

A link drops out intermittently

WHAT FIXES IT

Every run tested on completion, with results kept for comparison.

PROBLEM

The cabinet is a tangle of leads

WHAT FIXES IT

Patch panels, cable management and leads cut to length.

PROBLEM

Cameras stop when the power blips

WHAT FIXES IT

UPS sized for the PoE load, with runtime agreed in advance.

Ask your installer

- Which cable category, and why for this site?
- Is the installer a registered cabler?
- Will every run be tested, and will I get the results?
- What labelling scheme will be used?
- What documentation will I receive, and in what form?

At handover you should receive

- Test results for every cable
- Rack layouts and patching records
- An outlet schedule matched to the labels
- Access to the CABVIX record of your site
- Spare capacity noted for future changes

TALK TO SECURATECH

Inheriting a messy comms room?

We can audit and document an existing installation before any changes, so you know what you have before you spend.

0400 106 833
info@securatech.com.au
securatech.com.au/enquiry

Speeds, distances and PoE figures are general industry values; actual performance depends on the cable, components, installation and environment. This guide is general information; your quote sets out the agreed scope.