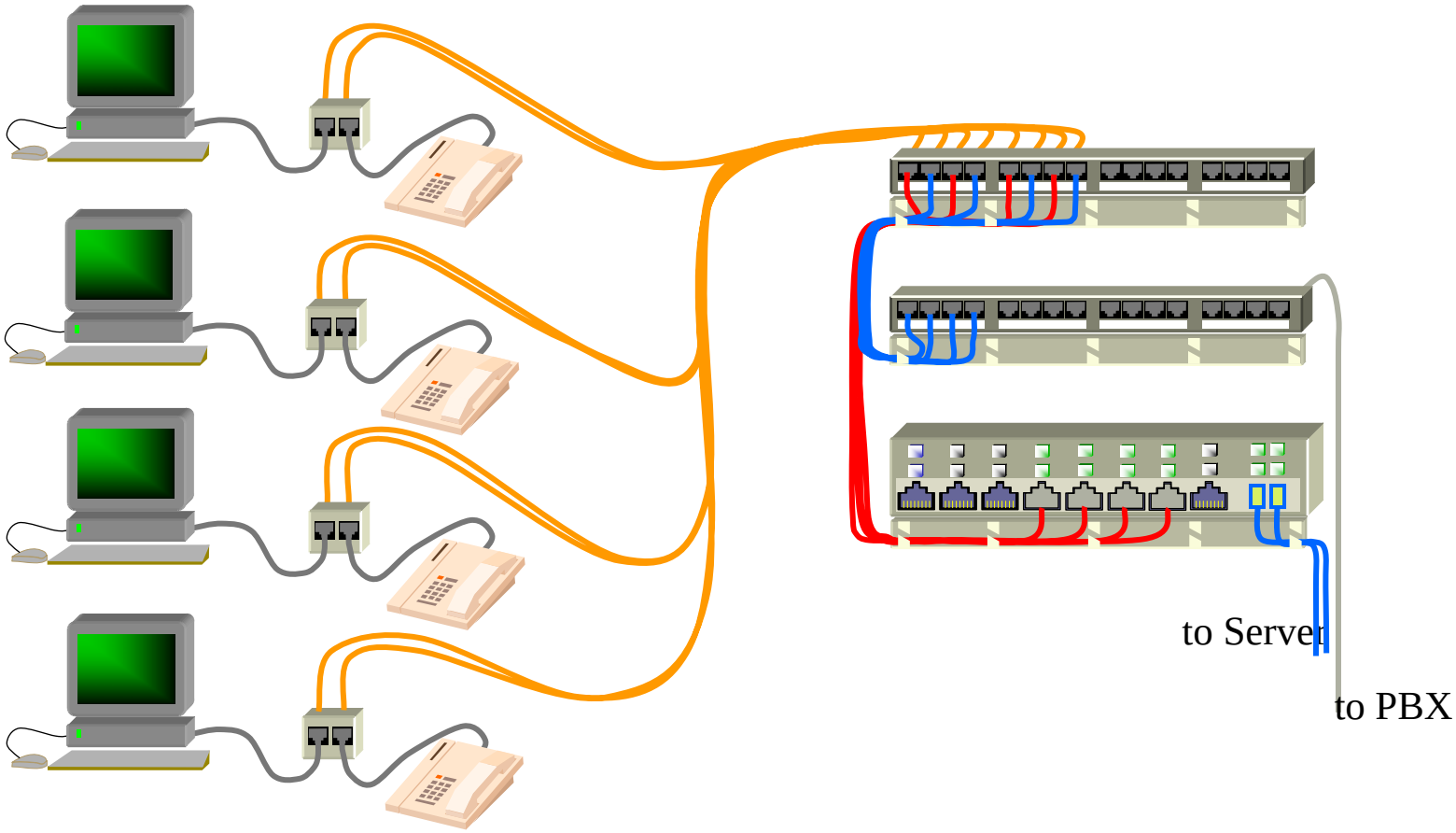
What is Structured Cabling?

Structured Cabling

- In simple terms it comprises of
  - Outlets (Telecommunications Outlet)
  - Cable
  - Patch Panels
  - Cabinets
  - Patch Cords
  - Flying Lead Converters
  - Containment

Structured Cabling

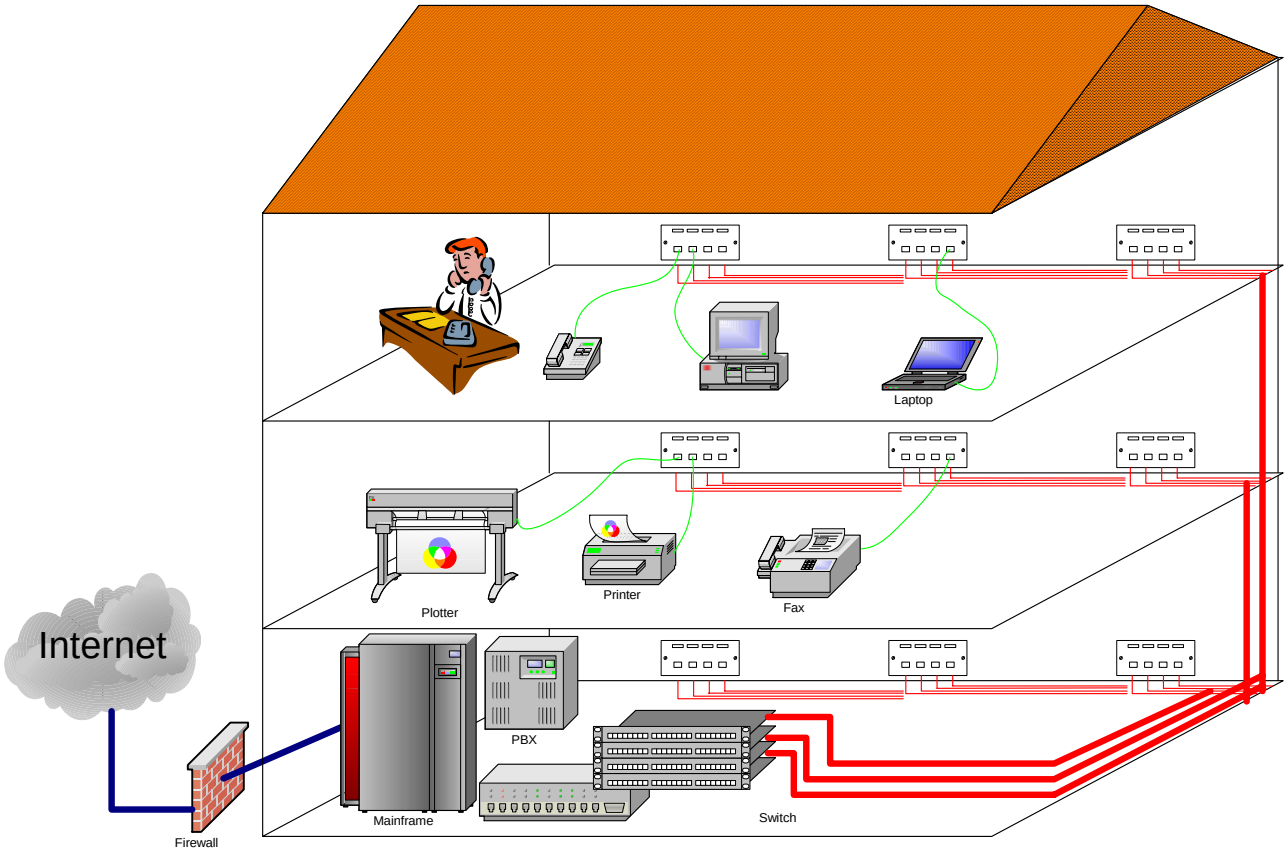


Structured Cabling

- Topology
  - Flood wire
    - » Outlets around the premises allowing convenient patching
    - » Doubles preferable to Singles
      - Typically one Voice one Data
      - Future expansion

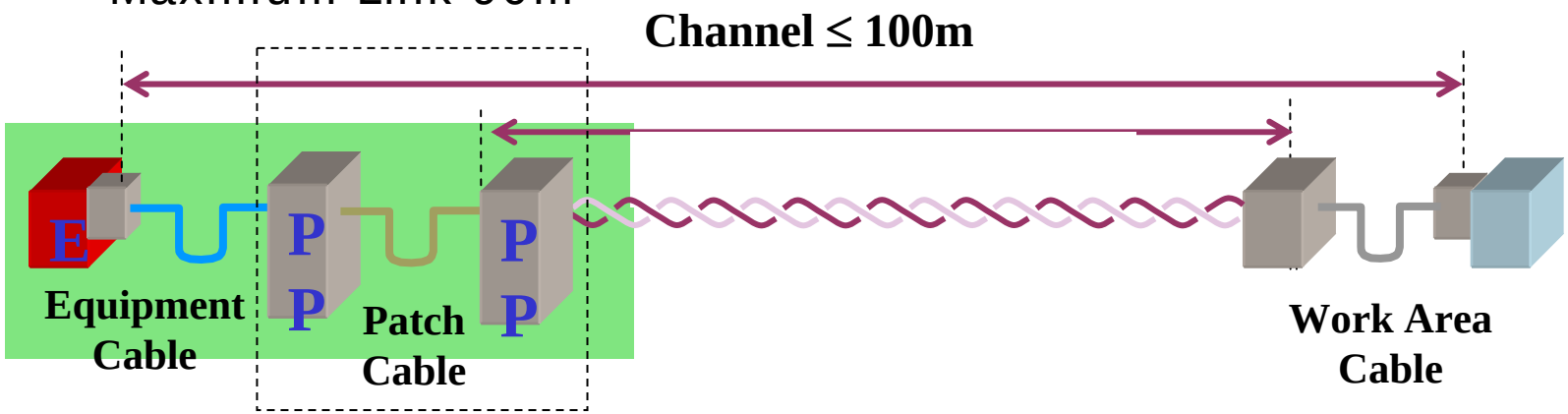
Structured Cabling

- Typically spare ports are available



Structured Cabling

- Rules
  - Maximum Link 90m



- Standards - BS - EN - ISO - ANSI

Category 5e vs. 6

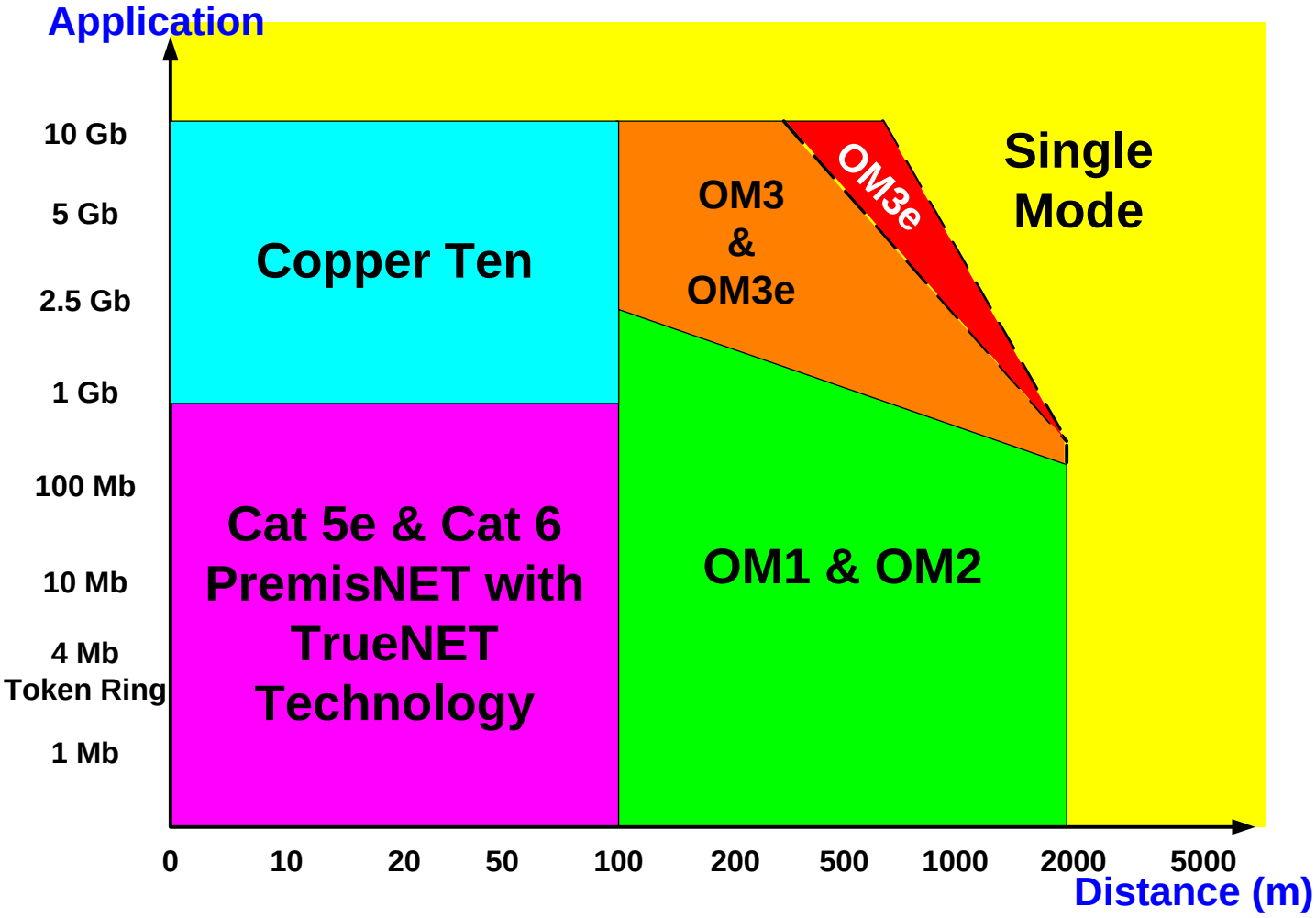
- Cat 5e = 100 MHz Bandwidth
- Cat 6 = 250 MHz Bandwidth

- Applications require a certain bandwidth to run.
- Cat 5e is limited to Gigabit Ethernet (1000 BaseT)

Category 5e vs. 6

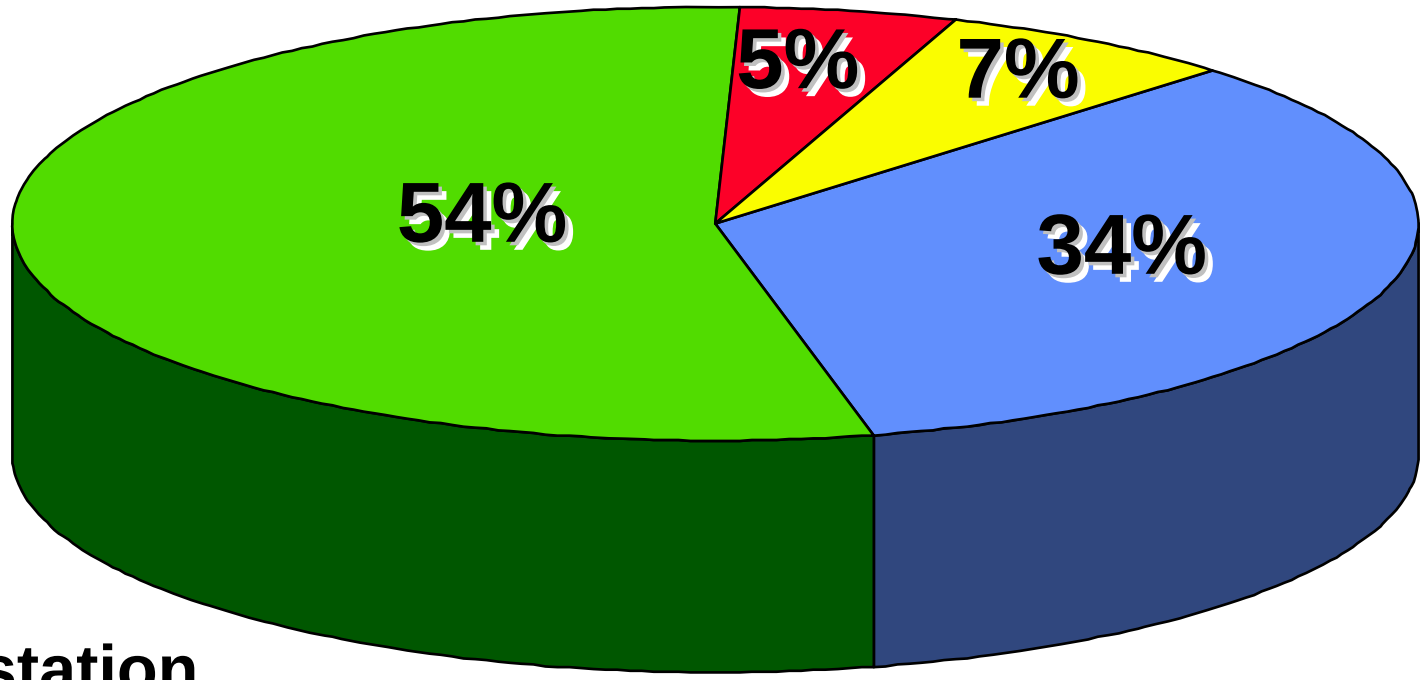
- What does Cat 6 give?
  - A ratified standard with 2.5 times the bandwidth
  - The maximum future proofing today
  - New applications including streaming media
- Compare the expected life of cabling with actives
- Put the best in available today

Selecting the System



Network Investment

Source : Network Survey BSRIA 2004



- Workstation
- Software & Processor
- Wiring
- Attachment

Product Life Cycles

Source : Network Survey BSRIA 2004