

REVIEW OF THE CODE OF PRACTICE FOR INFO-COMMUNICATIONS FACILITIES IN BUILDINGS (“COPIF”)

1. Internal Wiring & Cabling Distribution System for Single or Multiple units Landed

- 1.1 **Paragraph 2.2(b)** states that “*a minimum installation of one unshielded twisted pair (UTP) Category 6 cable, which complies with the TIA/EIA 568-B specifications, from a wall-mounted RJ45 outlet in a utility room (or closet) to a wall-mounted RJ45 outlet at the living room or a bed room to facilitate deployment of Ethernet-to-the-home for high-speed broadband services and other advance telecommunication services to each unit of the residential properties;*”

SingTel’s Proposal

- IDA to make it mandatory for developers and owners of landed and high-rise residential to install Category 6 cables, to facilitate deployment of Ethernet-to-the-Home for broadband services and other advance telecommunication services, in particular FTTH services, in the developments.
- It should be made mandatory that the Category 6 cables are to be run from the utility room (or closet) to all the rooms within the residential units including kitchen, dining hall and living hall.
- Each Category 6 cable is to be terminated to a twin-gang RJ45 socket in each of the rooms. In particular, at least one (1) UTP Category 6 cable should be terminated to a twin-gang RJ45 socket next to the TV point.
- This is to avoid the situation where a tenant lacks a RJ45 socket and requires additional RJ45 sockets in the other rooms, thereby giving rise to additional costs to the developers or owners in carrying out remedial works and unsightly alterations that may adversely affect the aesthetics of the residential units.
- The length of the Category 6 cables should not exceed a distance of 90m.

- Another reason for the above is that Ethernet-to-the-Home technology has great potential, for example high-speed broadband access, online gaming, video-on-demand which users prefer to enjoy in the comfort of their own room within the residential units.
- 1.2 **Paragraph 2.3** states that “*While IDA only mandates the installation of one UTP Category 6 cable to the living room or a bed, IDA recognises the merit of having the entire property be cabled up with Category 6 cables. IDA therefore **strongly recommends** building developers/owners to install Category 6 structured cabling between a RJ45 patch panel in the utility room (or closet) and RJ45 outlets in all rooms for broadband home networking within each unit of the residential properties. Where a patch panel in the utility (or closet) is installed, the RJ45 outlet as stated in paragraph 2.2(b) should be incorporated in the patch panel.*”

SingTel’s Proposal

We refer to our comments in paragraph 1.1 above.

2. Internal Wiring & Cabling Distribution System for Multi-storey Multiple tenanted Residential Properties

- 2.1 **Paragraph 2.5 (a)** states that “*an empty 20mm diameter uPVC conduit in straight run from the telecommunication riser to each residential unit (preferably be terminated in the utility closet).*”

SingTel’s Proposal

- The diameter of the uPVC conduit should be increased to be at least 25mm in diameter instead of 20mm.
- This is in view that the same conduit will be used to house the Category 6 cable for termination to the DP at the riser. The 20mm diameter conduit would not be sufficient to accommodate the Category 6 cable together with the next-generation broadband cable. Hence, 25mm diameter conduit is necessary.

- 2.2 **Paragraph 2.5 (b)** states that *“a minimum installation of one unshielded twisted pair (UTP) Category 6 cable, which complies with the TIA/EIA 568-B specifications, from a wall-mounted RJ45 outlet from the location where the empty 20mm conduit is terminated to a wall-mounted RJ45 outlet at the living room or a bed room to facilitate deployment of Ethernet-to-the-home for next generation broadband services and other advance telecommunication services to the residential unit;”*

SingTel’s Proposal

- We refer to our comments in paragraph 1.1 above.
- 2.3 **Paragraph 2.6** states that *“While IDA only mandates the installation of one UTP Category 6 cable to one room, IDA recognises the merit of having the entire property be cabled up with Category 6 cables. IDA therefore **strongly recommends** building developers to install Category 6 structured cabling between a RJ45 patch panel in the residential unit and RJ45 outlets in all rooms for broadband home networking within the residential unit. Where a patch panel is installed, the RJ45 outlet as stated in paragraph 2.5(b) should be incorporated in the patch panel.*

SingTel’s Proposal

- We refer to our comments in paragraph 1.1 above.