

Your Ref :

Our Ref: CD/FSSD/12/02/03/01

Date : 17 May 2016

Registrar, Board of Architects
Registrar, Professional Engineers Board
President, Singapore Institute of Architects
President, Institution of Engineers, Singapore
President, Association of Consulting Engineers, Singapore

Dear Sir/Mdm

AMENDMENTS TO TECHNICAL REQUIREMENTS FOR HOUSEHOLD SHELTER 2012 - PROVISION OF FIBRE TERMINATION POINT (FTP) AND RJ45 OUTLETS AND SMALLER HS AREA FOR DWELLING UNITS WITH GFA $\leq 40M^2$

In the prevailing Technical Requirements for Household Shelter (HS TR), TV, radio and telephone outlets are required to be provided. Copper cables for telephone outlets were the primary means of connection before the implementation of Info-comm Development Authority (IDA)'s revised Code of Practice for Info-communication Facilities in Buildings (COPIF) on 1 May 2013. With the revised COPIF 2013, all copper cables will be replaced with fibre cables. Fibre Termination Point (FTP) and RJ45 outlets (with an unshielded twisted pair cables, Category 6 or better) have since been provided for Household Shelter (HS), in compliance with specifications as stipulated in the COPIF 2013¹. Hence, this circular is to formalise this requirement in the HS TR. Please refer to Annex A for illustration.

¹ COPIF 2013 requirements for Storey Shelters have been incorporated into the new Technical Requirements for Storey Shelters 2015 which was issued on 23 Sep 2015.



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Smaller HS area for dwelling unit with GFA $\leq 40\text{m}^2$

2. Arising from industry's feedback to provide flexibility in design for small dwelling units with GFA up to 40m^2 , the requirements previously stipulated in the Circular titled "Revisions to Household Shelter Technical Requirements 2012" dated 11 July 2014 will be superseded by the table in Annex B. The key amendments are the extension of smaller HS area to dwelling units with $40\text{m}^2 \geq \text{GFA} > 38\text{m}^2$ and the minimum HS area to be 1.44m^2 , instead of 1.4m^2 , to satisfy the minimum HS clear width of 1.2m. The aforesaid table will therefore replace the existing Table 2.2.1(b) in the Technical Requirements for Household Shelter (HS) 2012.

3. The above-mentioned revisions shall take immediate effect from the date of this circular.

4. Please convey the contents of this circular to members of your Institution/Association/ Board. The circular is also available in CORENET-e-Info: <http://www.corenet.gov.sg/einfo>. For any inquiry or clarification, please contact the undersigned at 68481478.

Yours faithfully,

(transmitted via e-mail)

MAJ Andy Tan
Fire Safety & Shelter Department
for Commissioner
Singapore Civil Defence Force



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The Life Saving Force

SINGAPORE CIVIL DEFENCE FORCE

cc

CEO, BCA
CEO, URA
CEO, HDB
President, IFE
President, SISV
SCDF Fire Safety Standing Committee
Fire Code Review Committee



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Annex A

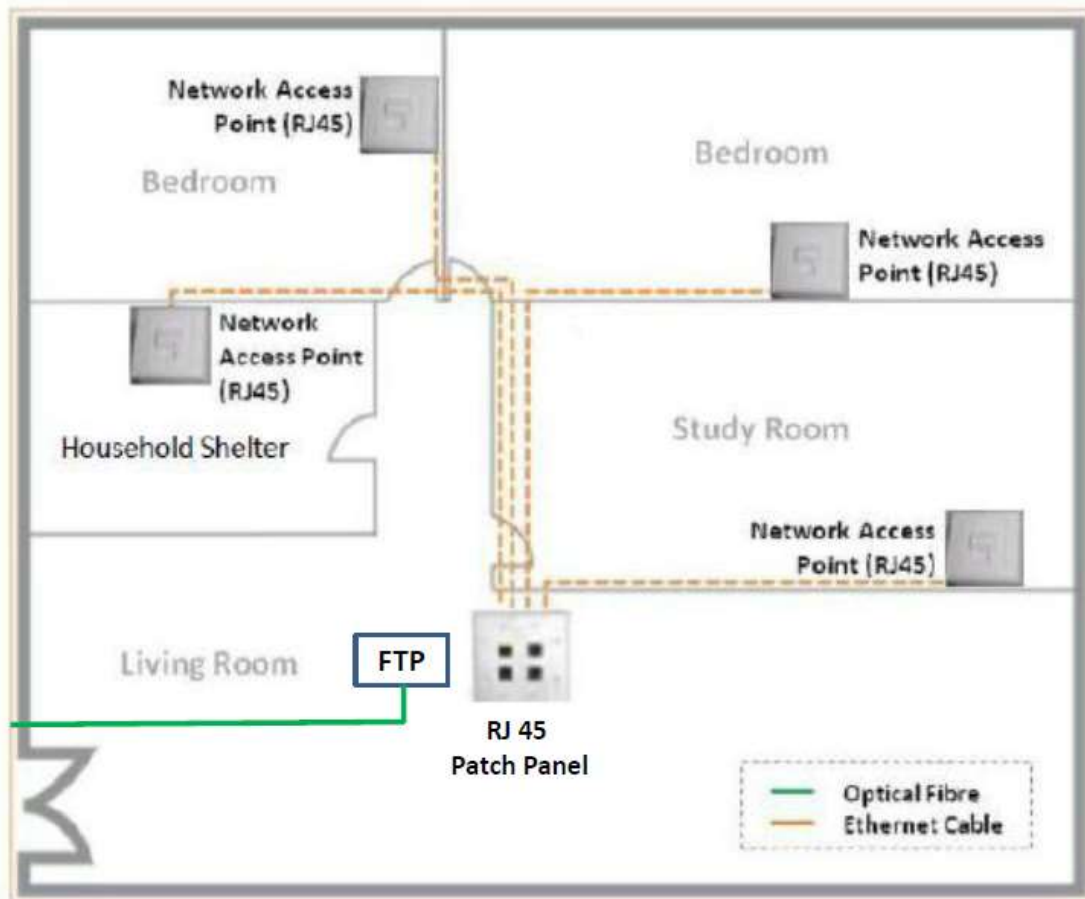


Figure 1 – Provision of an additional RJ45 outlet with an unshielded twisted pair cables (CAT 6 or better) in the HS that is connected to the patch panel which is next to the fibre termination point (FTP) inside the unit.



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Annex A



Figure 2 shows the RJ 45* outlet

* NOTE: The CAT 6 cables in the RJ45 outlet shall be terminated into the RJ45 patch panel within the residential unit.



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Annex B

TABLE 1: MINIMUM INTERNAL HS FLOOR AREA AND VOLUME

GFA* of a House (m ²)	HS Floor Area** (m ²)	HS Volume (m ³)
GFA ≤ 40	1.44	3.6
40 < GFA ≤ 45	1.6	3.6
45 < GFA ≤ 75	2.2	5.4
75 < GFA ≤ 140	2.8	7.2
GFA > 140	3.4	9.0

* The GFA of the house excludes the balconies that are open on at least two sides to make the balconies conducive for sky-rise gardening in accordance with URA guidelines. Service balconies, which are commonly provided at the utility areas for the purpose of drying clothes, would therefore not qualify for exclusion.

** Whenever possible a larger HS internal floor area (up to a maximum size of 4.8 m²) should be provided to enable a relatively more comfortable stay during a National Emergency.



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