

3.6 Fibre Termination Components and GPON splitters

The following fibre termination components are to be provided to splice multicore SM fibre cables with 4 core SM drop cables:

- 4 port fibre terminal box (with LC/APC and SC/APC pigtailed & adaptors) inside the 12U cabinet of tenant premises (Home/Office/Retail/Villa/Warehouse);
- Fully loaded high density or low density fibre patch panels with SC/APC adaptors and pigtailed inside MTR – for Operators
- Wall mount mini ODF (direct splice cabinet) inside FTR are to be used to splice the multicore SM fibre cables with respective 4 core SM drop cables**.

**The capacity of the mini ODF (direct splice cabinet) depends on the number of splice trays required per mini ODF to accommodate minimum of 12 core fibre per splice tray.

3.6.1 General GPON Optical Splitter Specification

- Optical splitter shall be made of Planar Lightwave Circuit (PLC) type;
- Manufacturer of optical splitters shall be fully compliant with Telcordia GR1209-, GR1221- or with IEC 61300, IEC 6-031-67153;
- All metal plating's and plastic materials of optical splitter shall be RoHS compliant;
- Optical splitters shall have the operating wavelength (nm) range from 1260 nm ~ 1635 nm;
- Optical Splitters shall have the operating temperature range from °24-C to °85+C;
- 2 (in) x 32 (out) optical splitter shall have the maximum insertion loss + connector loss (@ operating wavelength from 1635~ 1260 nm) to ≤ 18 dB; (for residential tenants).
- 2 (in) x 8 (out) optical splitter shall have the maximum insertion loss + connector loss (@ operating wavelength from 1635~ 1260 nm) to ≤ 11 dB; (for business tenants).
- Optical splitter shall have dust covers on the uplink and downlink connectors.