

Hybrid Fibre Optic with Pure Fibre Installation

Site Name:	The Falls Estate
Location:	Little Falls, Roodepoort
Installation Company:	Clear Screen Installations, Wynand Ras
Type of installation:	Residential
New / Upgrade:	Retrofit and Repair with Green Field Fibre Portion
Size of installation:	Hybrid System - 100 units Pure Fibre System - 500 units a further 500 units are being built
Type of Solution:	Fibre Hybrid, Pure Fibre
Tech. Sales & Support:	Marc Roberson

Project Overview:

First 10 blocks of the estate were built to support a copper / fibre hybrid system where the fibre optic satellite feed is split at the guard house and then sent via fibre to the various blocks where it is re-converted back into copper, connected directly into a Johansson DSCR Switch. Each unit then has a Belden Copper Cable running into the apartment where the user connected his decoder to the Single IF (Both SATCR and Universal) Port provided in each unit.

Given the expansion of the estate, it was decided to expand the system to cater for a pure fibre optic system, i.e. the second leg of the ODU32 that is installed on the roof runs into an 8 way fibre optic splitter, this 8 way fibre splitter then feeds 8 x O2E's and then subsequently 8 x ODU32's. Each feed from the 8 x ODU32 (16 ports) runs into a 32 way Fibre Optic Splitter installed into a dome joint in the field (Supplied by the ISP)

From the Dome, a drop cable is then spliced into the splitter leg and the drop cable terminated in a termination box in the apartment. We have used the Zinwell GTU's in the apartment to covert from the fibre back into Copper.

Further expansions to the system are being done as we speak, with new phases of the fibre to come online later in the year. The total unit count will be close to 2000 units.



Products used to facilitate the installation:



Hybrid Fibre Optic with Pure Fibre Installation

Products used to facilitate the installation:



Cahors Satellite Dishes



Zinwell Fibre GTU



Johannsson DSCR Switches



Global Invacom Quattro GTU



Global Invacom O2E



Global Invacom ODU32