Sterlite Tech™

Plug & Play FTTH Solution
with Vodafone India

Evolving ecosystems with advanced compute power require major changes in the foundations that provide the volume of data needed to keep them running. The digital transformation, driven by Data Analytics, Artificial Intelligence, IoT require massive data sets to drive their respective applications. In an ever-expanding digital India, with 4G progressing towards 5G, the Indian telecom sector has undergone a complete transformation with free voice calling and data applications gaining prime importance.

There is an emerging need of a solution to connect these cities at much faster pace than ever before. Catering to the requirements of ultra-high speed broadband enabling HD TV, 3D Gaming, movies-on-demand, surveillance systems and much more. There is definitely a need which emerges out for one-of-a-kind solution that enhances last mile connectivity like never before.

Sterlite Tech's smarter FTTH Plug and Play Passive Solution is designed to enable faster and reliable connectivity, which helps operators to provide broadband connectivity to Homes in the shortest possible deployment time in high-rise and medium rise building scenario.

The key technical attributes of this solution

Robustness

- **Easily withstand stringent outside environment:** IP-65 Rated
- **Overcome sharp bends:** uses Bend Insensitive G.657 BOW-LITE series of fibre reducing signal losses by 10-20 times.
- **Protects Slacks from outside damage:** store 30mtr cable inside box.

Reliability

- **Independent of field splicing:** Factory terminated tested ends ensure low insertion loss.
- **Rodents Protected:** Highly flexible, spiral armoured cables with predesigned lengths

Efficiency

- **Resource Optimisation:** 50% reduction in FRT team for deployment
- **Supply Chain Management:** Predefined kit for desired cluster sizes

Ease of Operations

- **Flexibility:** solution installable at walls/poles
- **Semiskilled team can install it:** Reduction of Technical Skills requirement on field

Vodafone intended to launch ultra-high speed fibre FTTH Broadband with an expected speed of 70 MBPS to 1 GBPS. It also planned to offer services of Vodafone fibre to start with, in order to encourage the deployment and demonstrate practical benefits.

Towards accomplishing this, Vodafone was on the lookout for the right partner of choice. This however, was challenging, as getting a reliable partner that would bring the correct best practices, resources, fast and accurate deployment techniques with minimized network losses and overall reliability, was difficult. The project scope involved not only supply, but someone who can provide a solution to enable execution with scale. Hence it was imperative for the right partnership to take place.

Vodafone and Sterlite Tech joined hands to bring this initiative to fruition and boost FTTH and broadband services in the city of Rajkot to start with.

Sterlite Tech's FTTH Plug and Play solution comprises of all the accessories in a single kit known as Cluster Kit. Customer can easily pick & choose different cables lengths to match their varied field conditions. The key components which have enabled Plug & Play solution includes Compact, Modular, Re-configurable Passive Enclosures, namely Main Distribution Box, Basement Distribution Box, and Fibre Access Termination-8 which can be used for both centralised and multi-split architecture needs.
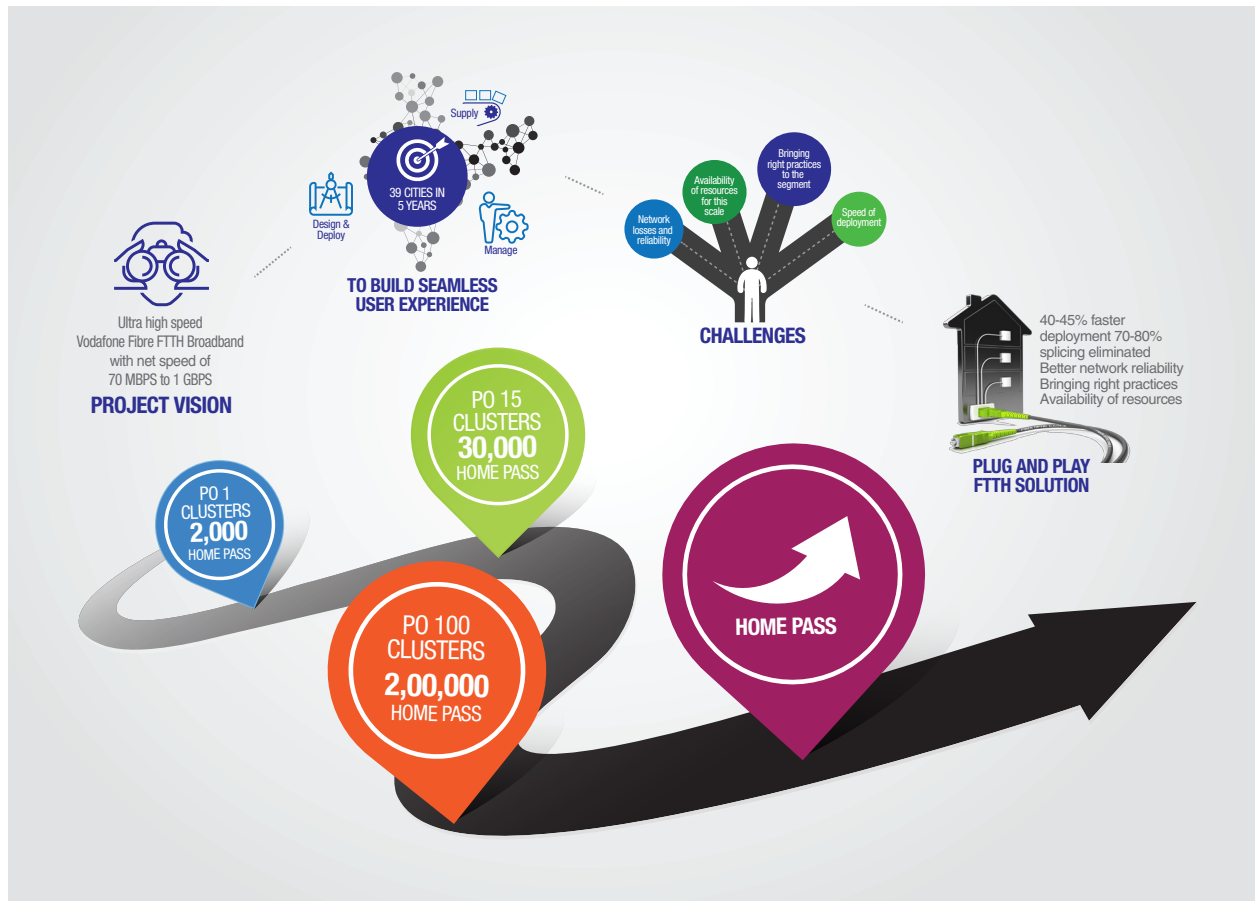
Despite this deployment being a first-of-its-kind activity, the semi-skilled manpower can effectively work to optimise the solution and bring an 85% reduction in the splicing cost through the installation guide supplied in each kit thus making it 40-50% faster under controlled conditions. MDU home pass readiness has been reduced to 20 hours from 7 days & with faster execution, resulting in reduction of Go-to-Market time considerably. O&M is now simple and hassle free, with resource optimization to the extent of 2 FRT managing 20 clusters.

With such impactful advancement, Sterlite Tech's Plug N Play solution has started setting new benchmarks in the industry

	Conventional Solution	Sterlite Tech's Smarter Plug N Play
Splices	5000 for 2K customers/1 cluster	750 for 2K customers/1 cluster
Time to connect customers	2-5 days after the placed request	

On going journey

Towards accomplishing this, Vodafone was on the lookout for the right partner of choice. This however, was challenging, as getting a reliable partner that would bring the correct best practices, resources, fast and accurate deployment techniques with minimized network losses and overall reliability, was difficult. The project scope involved not only supply, but someone who can provide a solution to enable execution with scale. Hence it was imperative for the right partnership to take place.

Vodafone and Sterlite Tech joined hands to bring this initiative to fruition and boost FTTH and broadband services in the city of Rajkot to start with.

Sterlite Tech's FTTH Plug and Play solution comprises of all the accessories in a single kit known as Cluster Kit. Customer can easily pick & choose different cables lengths to match their varied field conditions.

The key components which have enabled Plug & Play solution includes Compact, Modular, Re-configurable Passive Enclosures, namely Main Distribution Box, Basement Distribution Box, and Fibre Access Termination-8 which can be used for both centralised and multi-split architecture needs.

Despite this deployment being a first-of-its-kind activity, the semi-skilled manpower can effectively work to optimise the solution and bring an 85% reduction in the splicing cost through the installation guide supplied in each kit thus making it 40-50% faster under controlled conditions. MDU home pass readiness has been reduced to 20 hours from 7 days & with faster execution, resulting in reduction of Go-to-Market time considerably. O&M is now simple and hassle free, with resource optimization to the extent of 2 FRT managing 20 clusters.

Sterlite Tech is a leader in optical fibre manufacturing, innovative cabling solutions and expert network deployment

We can help you at each stage of your smart network creation through our expert design, build and manage capabilities

Sterlite Tech

www.sterlitetech.com