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www.stl.tech

December 11, 2020

National Stock Exchange of India Limited

Exchange Plaza, 5th Floor, Plot No. C-1, G Block, Bandra Kurla Complex, Bandra (East) Mumbai - 400 051. BSE Limited Phirozee Jeejeebhoy Towers, Dalal Street, Mumbai - 400 001.

Sub: Intimation of Key Discussions in STLescope Tech Talk – Virtual Meet

Ref.: Scrip ID - STLTECH/ Scrip Code - 532374

Dear Sir/ Madam,

Further to our intimation dated December 4, 2020 and pursuant to Regulation 30(6) of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, we wish to inform you the key points discussed in the Virtual Tech Talk on December 11, 2020.

The presentation of the STLescope Tech Talk is attached herewith.

Kindly take the above on your record & acknowledge the receipt.

Thanking you,

Yours faithfully, For **Sterlite Technologies Limited**

Amit Deshpande Company Secretary & Corporate General Counsel





STLESCOPE

Understanding the science behind Optical Fibre Networks

11th December, 2020



Let's test our knowledge on optical fibre networks with a fun quiz!!

Go to www.menti.com

96 13 052

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Jitendra Balakrishnan CTO- Connectivity Solutions, STL

Dr. Jitendra Balakrishnan is a technology executive with nearly two decades of experience in research & development, manufacturing, business development, and leadership of technology organizations.

Currently, Jitendra is the Chief Technology Officer -Connectivity Solutions at STL. Technology innovation is at the heart of STL's mission to design, build and manage smarter networks. Jitendra is driving an expansion of STL's R&D in telecom products, is developing a long-term vision and roadmap for the technology unit, and is integrating it with other functions within the company. Previously, Jitendra was Research Director - Innovation & Technology -Emerging Markets at Corning Incorporated. In this position, he founded and established Corning's R&D operations in India, which became Corning Research Center India.



Sam Leeman PLM Head - Optical Interconnect, STL

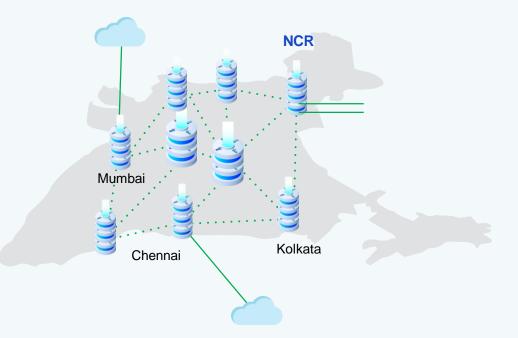
Sam Leeman, a thought leader, an innovator, and an expert in the field of fibre network builds. He joined STL in 2019 the global PLM leader for the Optical Interconnect portfolio driving the product roadmap and aligning it with customer requirements

Sam brings with him over two decades of leadership experience in Product Development, Product Management and Business Development in the telecom industry. He has been actively involved in both emerging as well as established markets and has worked with multiple telecom operators around the world, leading from the front to develop renowned TCO solutions.

What is a Digital Network?

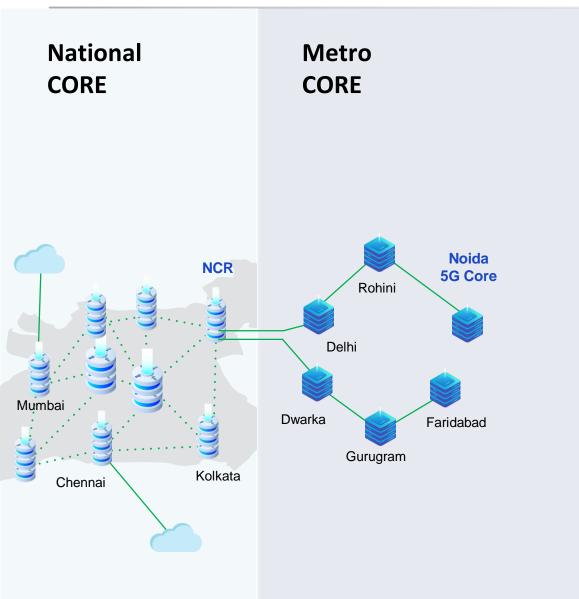


National CORE



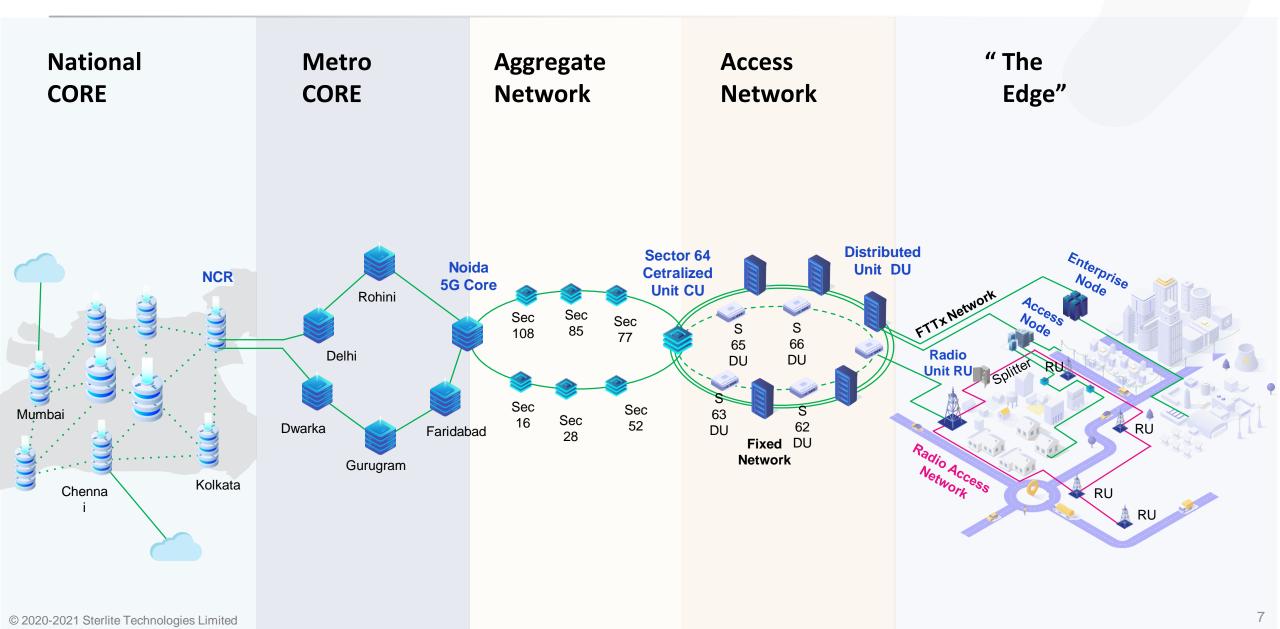
What is a Digital Network?





What is a Digital Network?



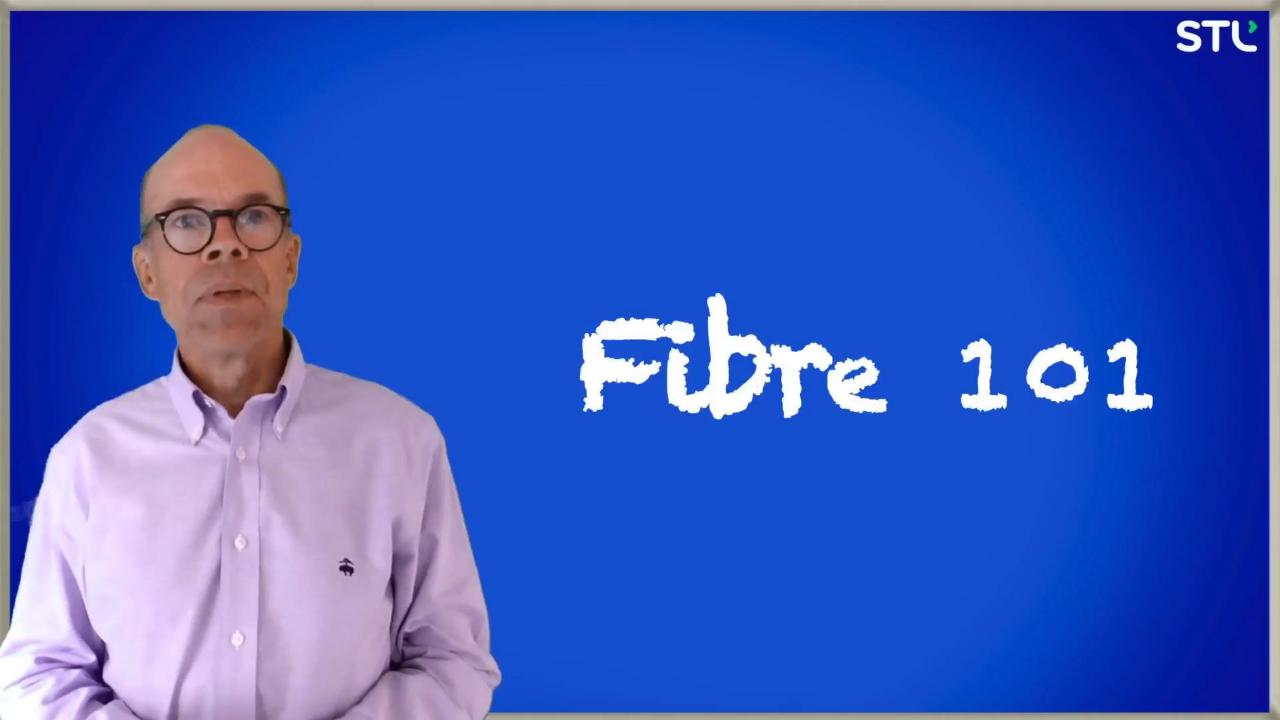




OPTICAL FIBRE What is it !! How does it work !!

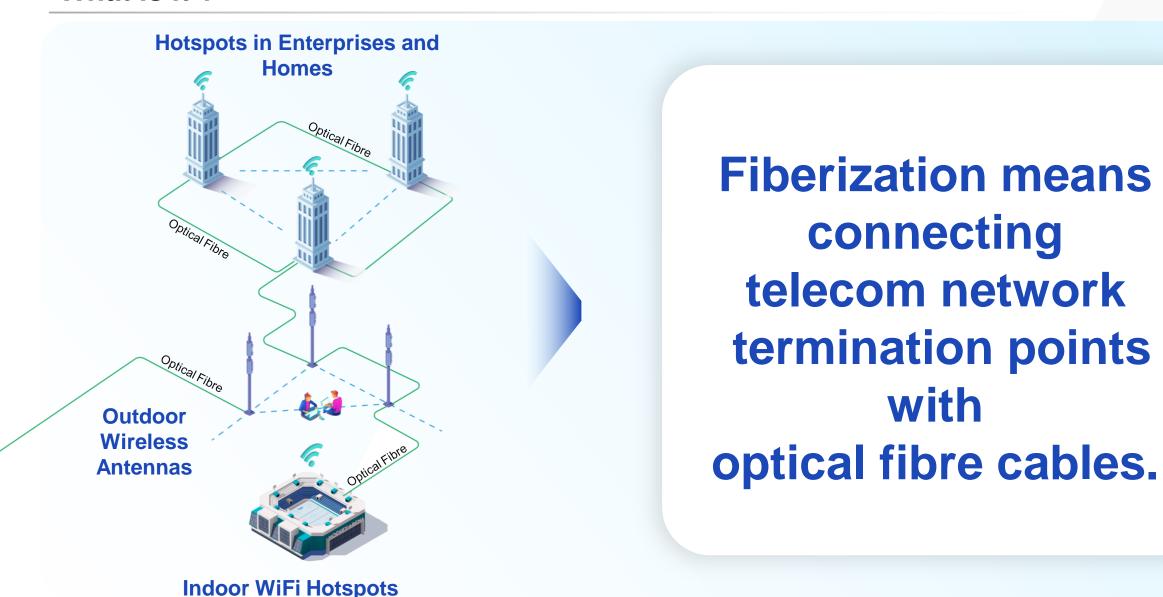
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Fiberization What is it ?



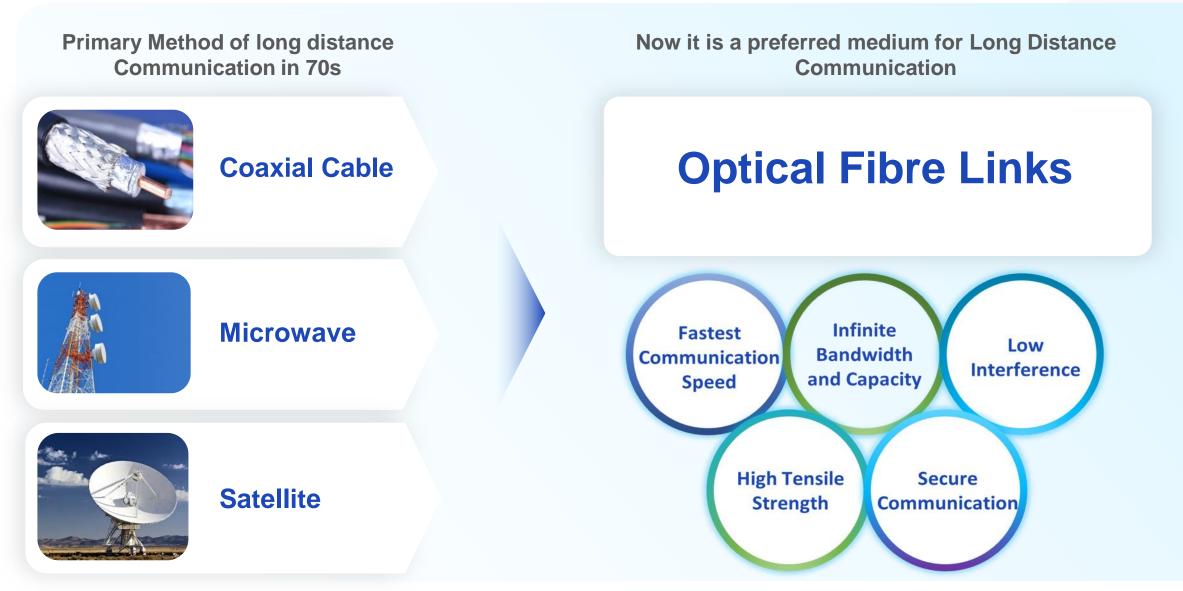


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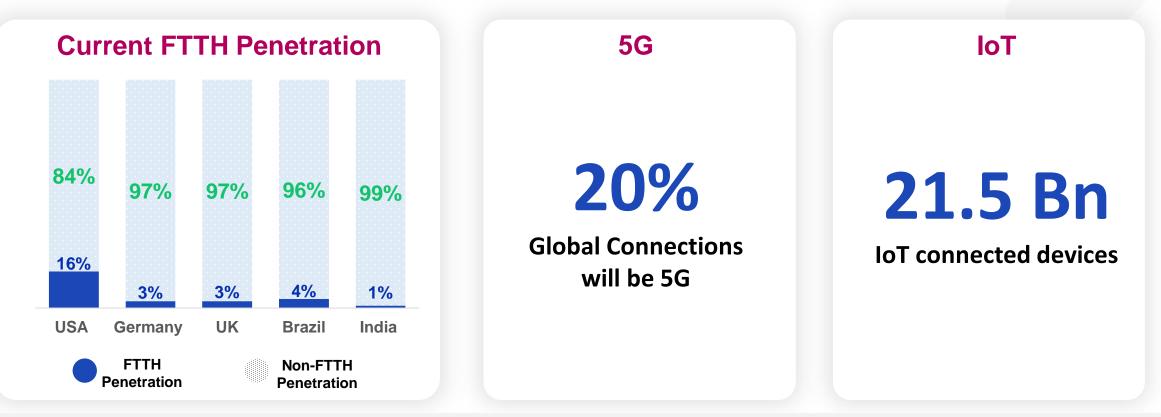
Why is Optical Fibre Better ?





Why should we care about it ?





All this will require high speed and low latency network creation which can be possible with **Deep Fiberization and High Densification**

What does Optical Fibre means to 5G





Small cell requirements for full 5G commitment

3 Operators per site in shared microsites

30% - 60% YoY Growth rate of

urban small cells

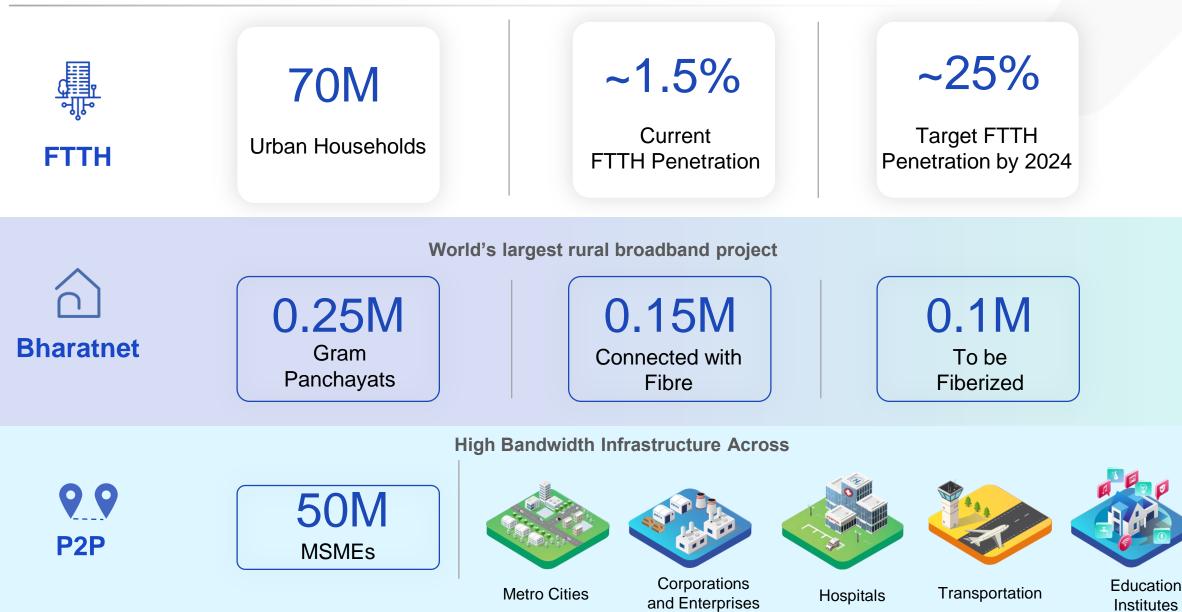
Amount of cell towers to accommodate full 5G services

Demand of Optical Fibre to roll out 5G

What does Optical Fibre means to FTTx



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The Challenges – A, B, C and D





Attenuation

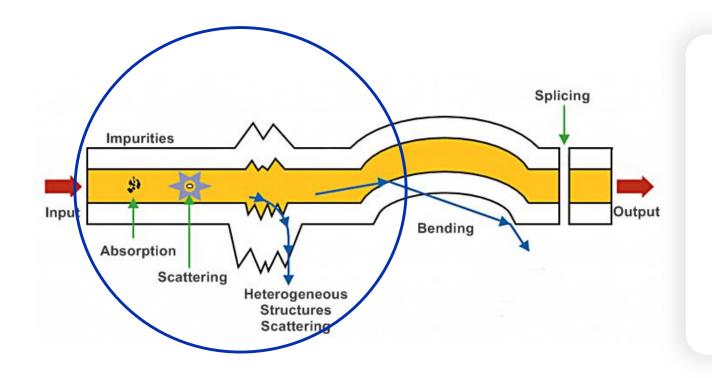


Increasing geographical spread

A- Attenuation

B- Bend Sensitivity

C- Compatibility



Attenuation refers to signal loss along the length of the fibre.

D- Duct Space

Attenuation happens due to absorption and scattering of light signal inside the core

A- Attenuation

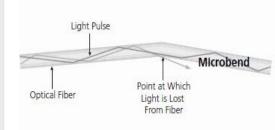
B- Bend Sensitivity

D- Duct Space

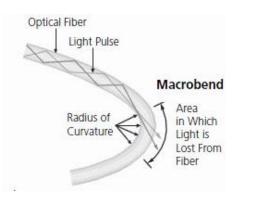


Bend Insensitive Optical Fibre

Bend Insensitive Fibre provide more than 10x reduced Macro Bend Loss



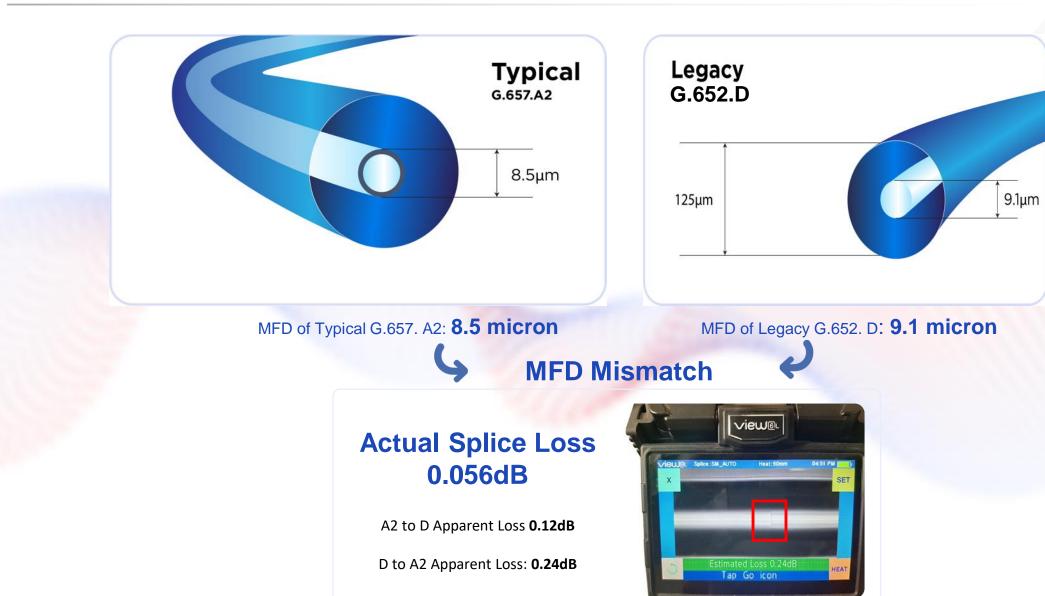
Microbends are axial distortions on core cladding interface caused majorly by the local mechanical stress placed on the cable during manufacturing, packaging or installation



Macrobends, which results in light leakage due to cable bends beyond the specified bend radius during installation



Bend Insensitive Fibre



C- Compatibility

B- Bend Sensitivity

D- Duct Space

Fiberization

Compatibility with Legacy Network and Future Technology

A- Attenuation

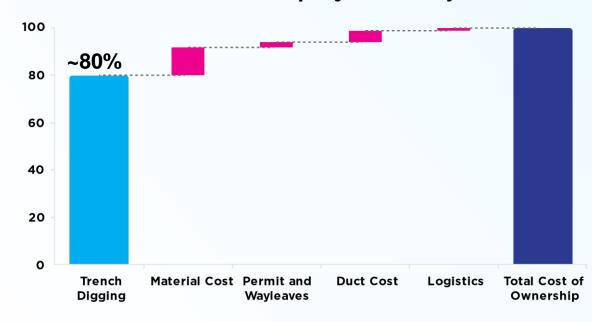
80% Cost share of civil work in a Cable Deployment Project

A- Attenuation

Bottleneck in achieving Higher Bandwidth: Limited Duct Space

B- Bend Sensitivity

Rest 20% constitutes Cables, Ducts and supplementary products



TCO - Cable Deployment Project



To meet this exponential growth Need 10X Fibre

In the same available duct space

Minimize the size of Cable as per requirement and provision for future requirement

Maximize Fibre Count on the basis of forecasted future demand





STL Approach

How we make our customers

address these challenges !!

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Opticonn

Increased technical and commercial integration



Generating value

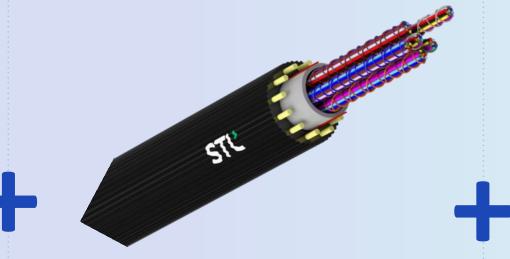
by solving an end to end problem for customer, improving overall network experience



Global innovations for Indian deployment scenarios Enabling Future Readiness at Lowest Total Cost of Ownership









Backward Compatible Bend Insensitive Fibre High Density Ribbon Cable Intelligently Bonded Ribbon (72F - 6912F) Underground and Aerial Optical Interconnect Kits

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25% faster deployment of future proof bend resilient network opticonn

Optical Connectivity

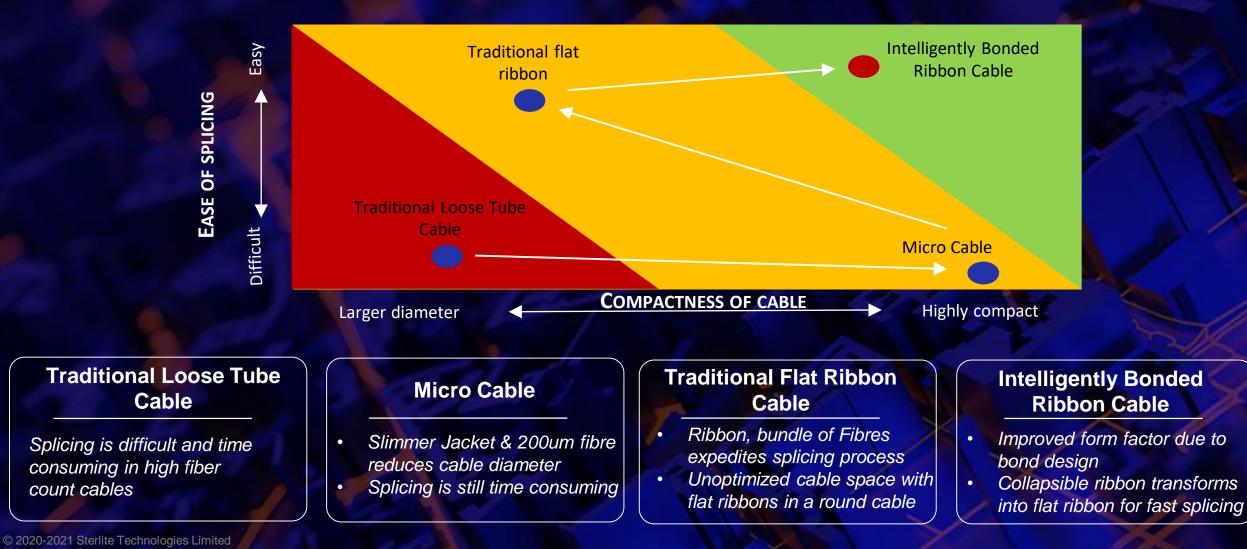
Global leader in E2E optical physical layer solutions

Higher density network -100% existing duct capacity augmentation

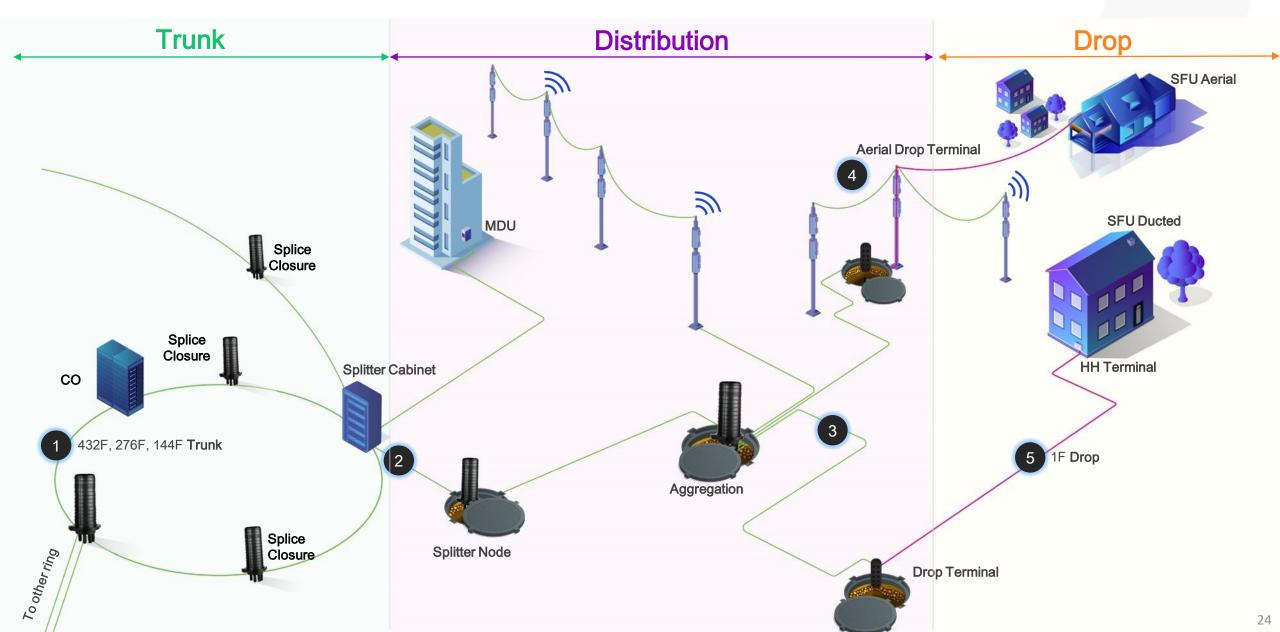
Next Generation Ribbon Technology



Modern networks require more fiber per cable and Minimize new duct installation and construction Better TCO from one-time deployment with compact cables in choked ducts



Next Gen Fibre Distribution and Termination Technology







CONSULTATIVE Design	CUSTOMISED Solutions	COMPREHENSIVE Value
ENGAGE Customers ASSESS Challenges	Image: SolutionImage: Solution </th <th>VALIDATE PerformanceVALIDATE PerformancePartner For Growth</th>	VALIDATE PerformanceVALIDATE PerformancePartner For Growth

CRS System: Opticonn @ Work

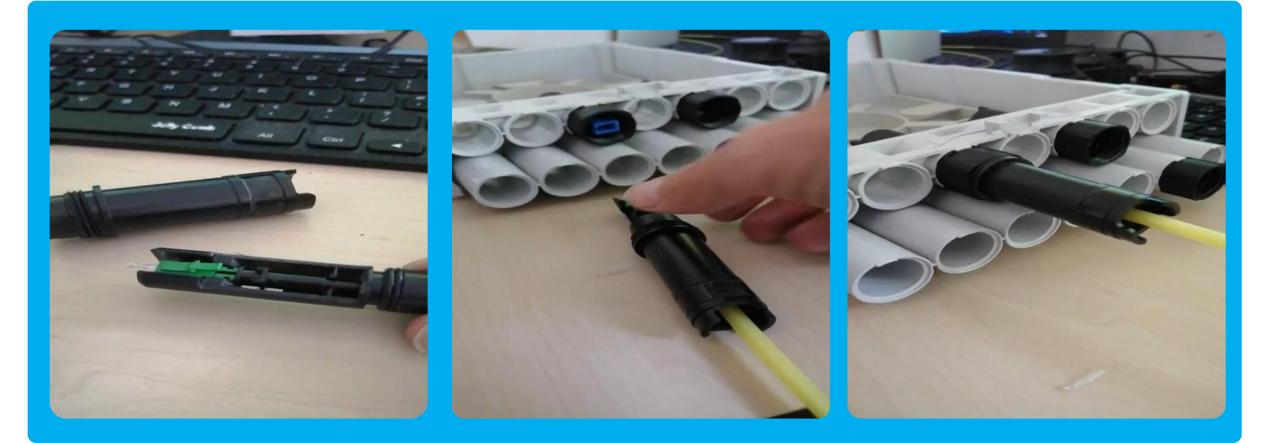


Assembling inner CRS to outer CRS shell





Push all the way through the outer shell



In Summary

25 Years of Leadership in Optical Fibre Innovation



Optical Fibre is the right choice for digital networks

Fastest Communication Speed

High Bandwidth

Low Interference

Optical network roll-out is a complex task

ABCD of Fiberization

E2E Solutions View

Innovation across the value chain



7 Production Facilities



4 Innovation Labs



425 + Patents



900+ Engineers Photonics | Chemical, Materials, Process



