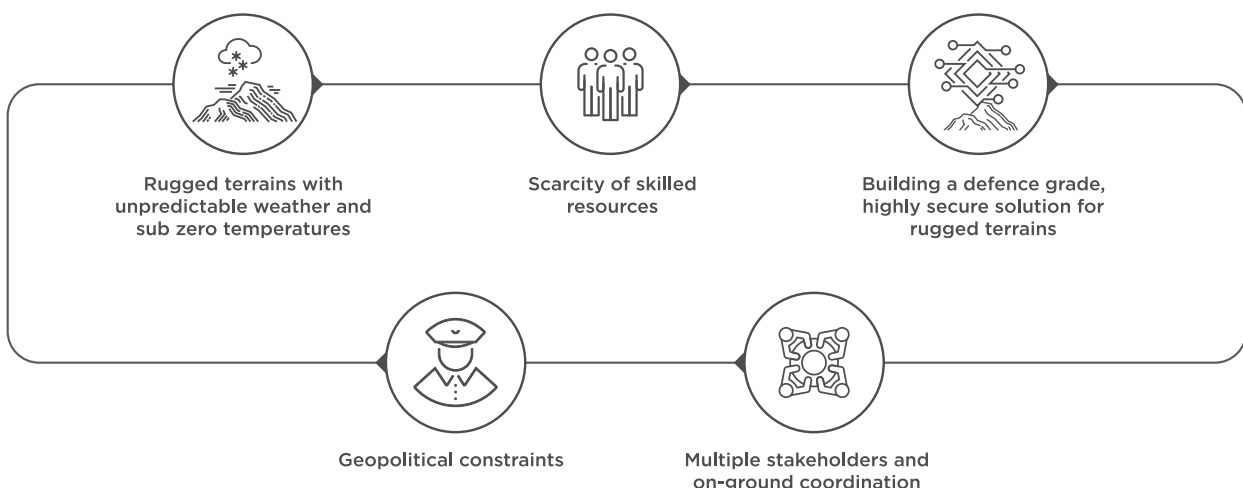


# Delivering an intrusion-proof smart defence network

## PROJECT BACKGROUND

Known for its design, build, and manage capabilities, STL created the world's largest intrusion-proof, highly secure smart network infrastructure for defence forces in Jammu and Kashmir. We deployed 9,495 kms fibre network for the Network for Spectrum (NFS) and built a communication network for the exclusive use of the Indian Armed Forces. This new network developed by STL is boosting the communication capabilities of Indian defence forces, enhancing national operational preparedness and real-time connect in the highest battlefield of the world. Owing to the use of best cable laying standards and practices, intrusion-proof cable technology, network monitoring, GIS mapping, this deployment has become the most advanced and secure network for the armed forces.

## CHALLENGES THAT WE FACED (AND MITIGATED)

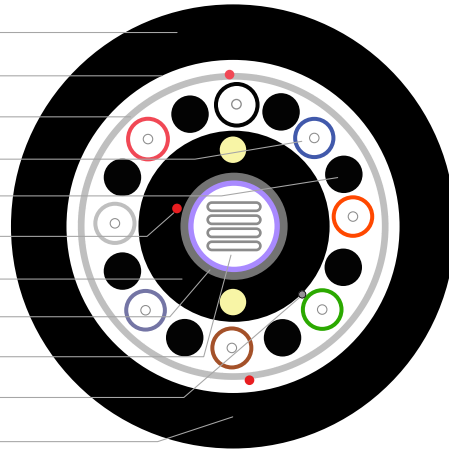


## STL SOLUTION TO DELIVER EXCELLENCE

Addressing both, technology requirements and deployment challenges, STL developed a highly innovative design solution – Ribbon Fibre Intrusion Proof cable with G.655 and G.652D fibres. Immense deployment challenges were overcome with STL LEAD 360° method. With a bottoms-up approach, enabling realistic planning & preparation for worst-case scenarios, STL achieved top quality roll outs in one of the most challenging terrains in the world

### Custom designed ribbon intrusion proof cable

- Outer sheath (Layer VII)
- Aramid/Glass Roving Yarn Layer (Layer VI)
- Water Swellable Tape (Layer V)
- Sensory Layer Fillers
- Ripcord (s)
- Inner Sheath (Layer III)
- Water Swellable Tape (Layer II)
- Loose Tube with Ribbon & Jelly (Layer I)
- Water Swellable Yarns
- Embedded Strength Member (FRP)



### STL LEAD 360°

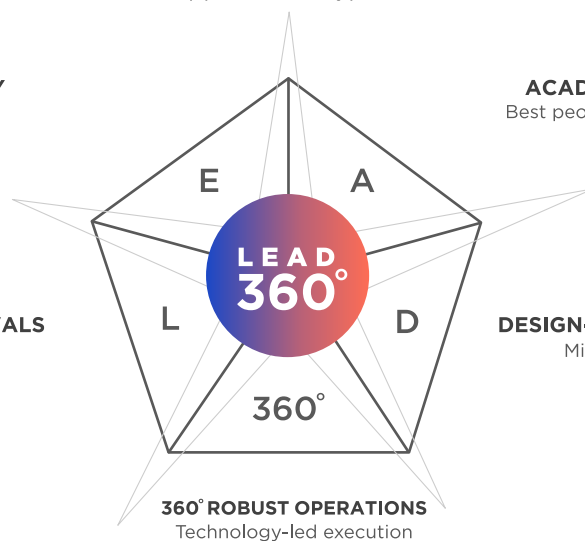
Our transformative approach to hyper scale fibre roll outs

**EVERYTHING SURVEY**  
Granular accuracy

**ACADEMY TRAINING**  
Best people-process matrix

**LEAN-AGILE APPROVALS**  
Enhanced efficiency

**DESIGN-LED PLANNING**  
Microscopic planning



**360° ROBUST OPERATIONS**  
Technology-led execution

## IMPACT DELIVERED

# 10k km

Optic fibre network

# 7x

Commissioning speed

# 25+

Years of network life

# 100%

Network on STL fibre