

The background of the entire page is a photograph of a modern data center. It shows long aisles of server racks with glass doors, filled with electronic equipment. The floor is highly reflective, mirroring the racks and the ceiling. The ceiling has a grid pattern with recessed lighting. In the distance, signs for 'A4' and 'B4' are visible. A large, semi-transparent blue triangle is overlaid on the left side of the image, pointing towards the right. Two white diagonal lines cross the image: one from the top-left towards the center-right, and another from the bottom-left towards the center-right. The text 'Data Centre Solutions' is centered within the blue triangle.

Data Centre Solutions

About STL

Sterlite Technologies Limited (STL) stands at the forefront of the digital revolution, with more than 25 years of experience in building intelligent and future-ready optical and digital networks. As a trusted partner in global telecom and data centre ecosystems, STL provides end-to-end solutions that support the growing demand for high-speed, low-latency, and reliable connectivity.

Our comprehensive offerings cover everything from Optical Fibre (OF) and Optical Fibre Cables (OFC) to Copper Cabling and Optical Connectivity (OC)—all engineered to serve the complex demands of modern telecom and hyperscale data environments.



Global Presence

10 manufacturing centres across 4 continents

740+ patents worldwide, including 24 U.S. patents in Q1 2025

Representation in ITU-T leadership roles shaping global standards



R&D Excellence

4 innovation centres, including a Centre of Excellence for glass preform, optical fibre, and specialty cables

60+ engineers from top global institutes.

Pioneers in innovations like Intermittently Bonded Ribbon Fibres, Fibre Optic Sensing, Multicore and Hollow Core Fibres

Why Choose Us?

Comprehensive Data Centre Cabling Solutions

Data centres are the backbone of the digital age—and STL is here to make that backbone stronger, faster, and more agile. Whether you're running an on-premise server room, a hyperscale facility, or a colocation/MTDC setup, STL provides modular, standards-based physical infrastructure that supports seamless scale and performance.

Our offerings are fully compliant with ANSI/TIA-942 and TIA-568 standards, ensuring robust interoperability and long-term reliability. What's more, every STL solution comes with a 25-year performance warranty, provided it's installed and tested by STL-certified integrators.



Copper Cabling (Cat6 / Cat6A):

Reliable structured cabling for enterprise and access networks.



Riser & Campus Fibre Cabling:

High-performance links for multi-floor and inter-building connectivity.



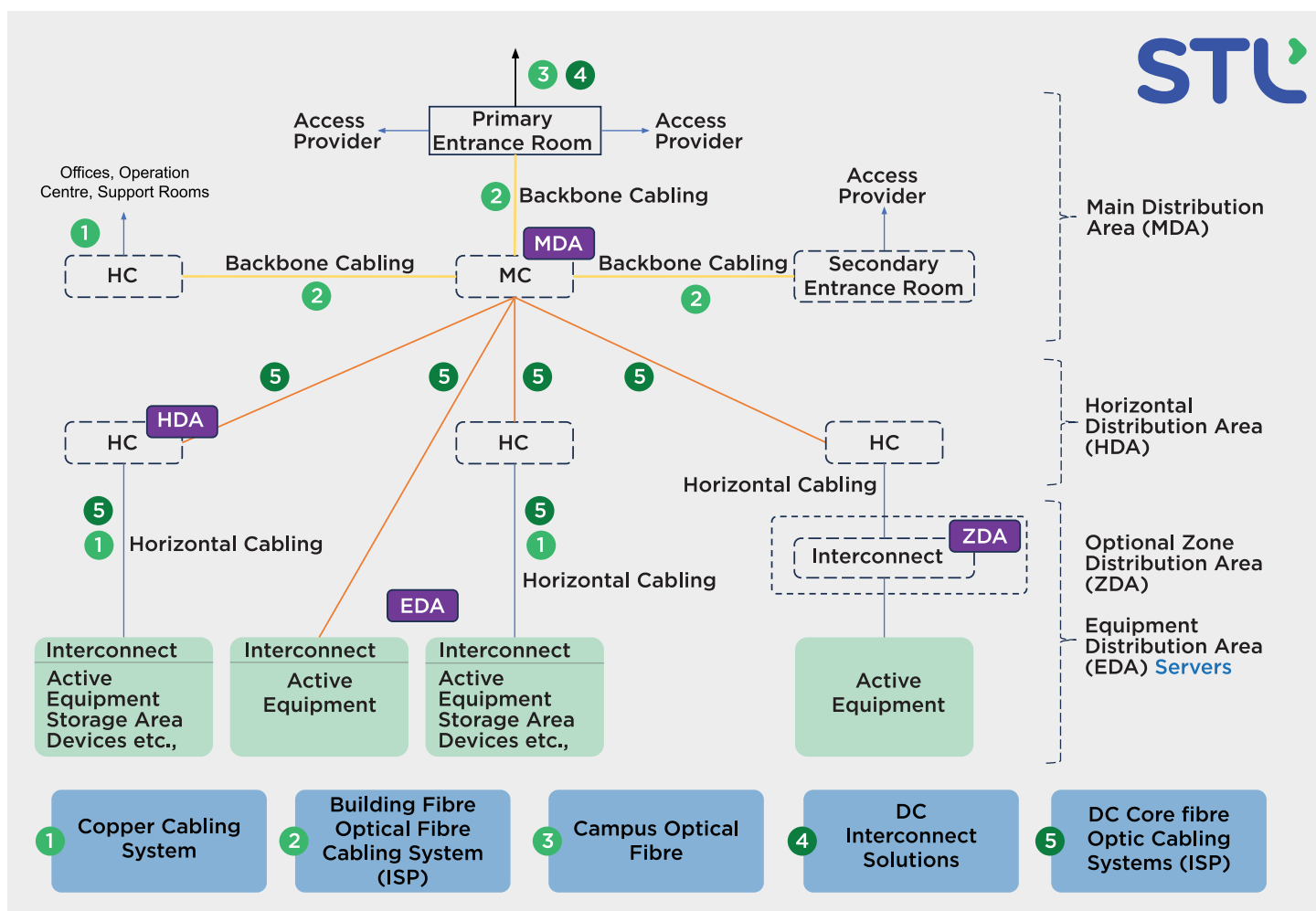
Pre-terminated Multi-Fibre Systems:

Plug-and-play fibre solutions for fast, consistent Data Centre core deployments.



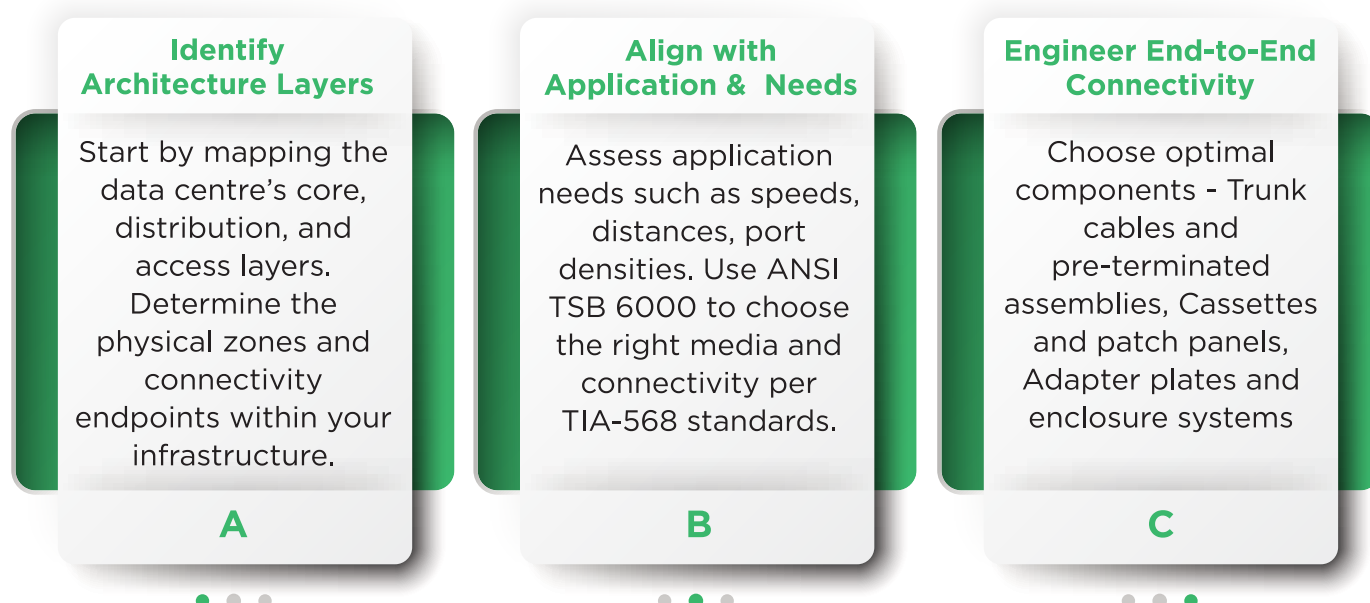
Data Centre Interconnect (DCI):

Scalable fibre links for metro and long-distance data centre connections.



Our 3-Step Design Approach

Designing data centre cabling connectivity can be complicated with several design options at play. Data centre cabling design requires optimizing network architecture, applications (Ethernet, Fibre Channel, InfiniBand), speeds, distances, interfaces, port densities, redundancy, and management for seamless scalability and efficiency!



STL can also partner in co-creating the solutions with customers. We can work jointly to gather connectivity requirements, develop Design Basis Reports, prepare conceptual and detailed designs that can lead to an RFP for network integrators to bid and build.

Talk to us. ***We understand what it takes for network infrastructure to deliver applications!***



beyond tomorrow

About STL - Sterlite Technologies Ltd

A leading optical and digital solutions company

STL is a leading global optical and digital solutions company providing advanced offerings to build 5G, Rural, FTTx, Enterprise and Data Centre networks. The company, driven by its purpose of 'Transforming Billions of Lives by Connecting the World', designs and manufactures in 4 continents with customers in more than 100 countries. Telecom operators, cloud companies, citizen networks, and large enterprises recognize and rely on STL for advanced capabilities in Optical Connectivity, Global Services, and Digital and Technology solutions to build ubiquitous and future-ready digital networks. STL's business goals are driven by customer-centricity, R&D and sustainability. Championing sustainable manufacturing, the company has committed to achieve Net Zero emissions by 2030. With top talent from 30+ nationalities, STL has earned numerous 'Great Place to Work' awards and been voted as the 'Best Organisation for Women'.

STL has a strong global presence in India, Italy, the UK, the USA, China and Brazil.