

SEMITA
Connectivity @ Lightspeed

**SEMITA
NEXIS**
DATA CENTER INFRASTRUCTURE

Connecting Networks.
Powering Infrastructure.



**SEMITA
NEXIS**
DATA CENTER INFRASTRUCTURE

About Semita Technologies & Semita Nexis

One Company. Connected Infrastructure
from Networks to Data Centers.



Semita Technologies is an Indian telecom and digital infrastructure company focused on developing, manufacturing and delivering solutions across FTTx, optical connectivity, 4G/5G infrastructure, copper connectivity, RF connectivity, power connectivity and related communication infrastructure.



Telecom
Infrastructure



Optical
Connectivity



Connectivity
Solutions



Semita Nexis is the dedicated Data Center Infrastructure business of Semita Technologies, extending the company’s physical-infrastructure capabilities into enterprise data centers, edge computing, distributed IT, telecom edge, high-density computing and AI infrastructure.



Rack



Power



Data Center
Infrastructure



Cooling



Edge & AI
Infrastructure



Semita at a Glance



Built in India. Engineered for Connected Infrastructure.

Semita combines design, manufacturing, assembly, testing and deployment capabilities across telecom connectivity and data-center infrastructure.



Established in 2015



ISO Certified



4G/5G Infrastructure



Headquartered in Bengaluru



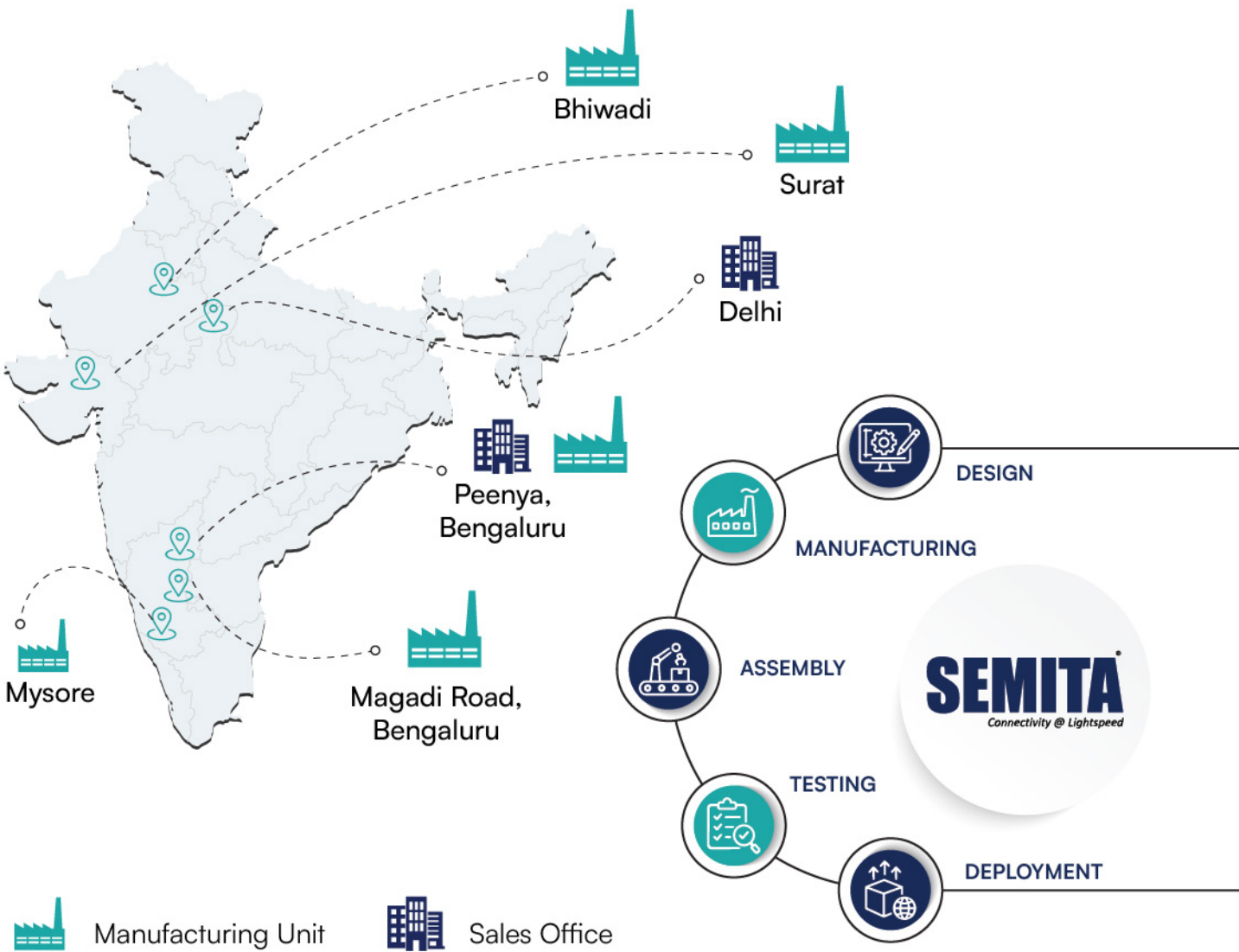
FTTx & Optical Connectivity



Customers include Telecom Operators and Tier-1 OEMs



Data Center Infra



Certifications & Quality System

Excellence through Internationally
Certified Quality Standards

Semita is committed to providing high-quality products and services that consistently meet customer and regulatory requirements. Our management systems and processes are certified by internationally recognized organizations.

ISO CERTIFICATIONS



CERTIFICATE OF CONFORMITY ASSESSMENT



ZED GOLD SURVEILLANCE



TM REGISTRATION CERTIFICATE



Semita Capabilities Overview

One Infrastructure Portfolio. Multiple Connected Possibilities.

From fiber to data centers, Semita delivers the building blocks for a stronger, smarter, more connected world.

 Optical Fiber & FTTx OFC up to 192 fibers, FTTH drop cables, ADS, riser, armoured, hybrid optic + power / copper as applicable. 	 Fiber Connectivity & Fiber Management Patch cords, pigtails, PLC splitters, FMS, FAT, joint closures, MPO/MTP, high-density interconnect. 	 Optical Transceivers 1G through 400G plus specialized optical variants. 
 Copper & Power Connectivity CAT6 families, patch cords, copper assemblies, power cable assemblies, grounding, armoured, screened and shielded power. 	 Telecom / RF / DAS / IBS 4G/5G infrastructure, antennas, RF assemblies, GPS timing, DAS/IBS, couplers, combiners and repeaters. 	 Data Center Infrastructure Delivered through Semita Nexis: Micro Data Centers, power, cooling and high-speed connectivity. 



SEMITA NEXIS
DATA CENTER INFRASTRUCTURE

THE NEXT BLOCK
IN A STRONGER TOMORROW


Micro Data Centers


Power


Cooling


High-Speed Connectivity



SCALABLE
SECURE
SUSTAINABLE
READY FOR
WHAT'S NEXT

INFRASTRUCTURE TODAY. A MORE CONNECTED TOMORROW.



Optical Fiber & FTTx

End-to-End Optical Infrastructure

Semita supports telecom, broadband, enterprise, campus and data-center connectivity with a broad optical-fiber cable portfolio designed for access, distribution and infrastructure deployments.



High Capacity



Reliable Performance



Scalable Solutions



Built for Tomorrow

Our Optical Fiber Cable Portfolio



Multitube Cables



ADSS Cables



Unitube Cables



Armoured Cables



Riser Cables

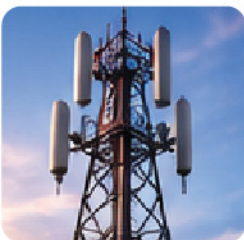


Drop Cables Indoor & Outdoor



Hybrid Cables

Applications



Telecom



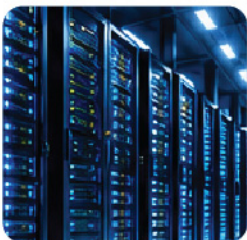
FTTH



Campus



Enterprise



Data Center

Fiber Connectivity & MPO/MTP



From Traditional Fiber to High-Density Data Center Connectivity

Semita delivers fiber connectivity and management solutions spanning standard patching, distribution and high-density MPO/MTP architectures for modern data-center networks.

Key Products & Solutions



**MPO/MTP
Cables**



**Single Mode
Patchcords**



**OM2/OM3/OM4
Patchcords**



**Fanout
Cable Assemblies**



**PLC
Splitters**



**Fiber Management
Systems**



**Fiber Access
Terminal Boxes**



**Joint
Closures**

Applications



Telecom



Enterprise



Cloud Infra



Data Center



Optical Transceivers

High-Speed Optical Transceivers - 1G to 400G

High-speed optical connectivity for telecom, enterprise, cloud and data-center networks.



Speed Ladder



Wide Range



Applications



Copper Connectivity >>>

Reliable Copper Infrastructure

Semita provides structured copper and cable-assembly solutions for reliable network connectivity across enterprise, telecom, data-center and industrial deployments.



Product Portfolio



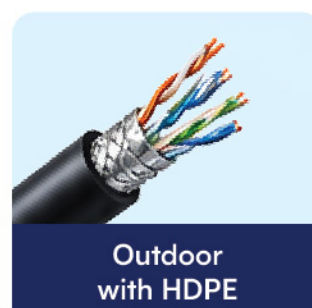
CAT6 U/UTP



CAT6 SF/UTP



Armoured CAT6 -
Wire Armoured /
CSTA Armoured



Outdoor
with HDPE



CAT6
Cables



CAT7
Cables



CAT5E / CAT6
Assemblies

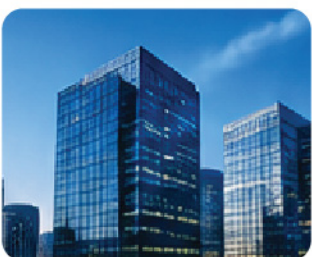


Copper
Patch Cables

Applications



Telecom



Enterprise



Cloud Infra



Industrial



Power Connectivity

Power Connectivity for Critical Infrastructure

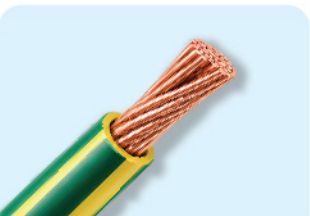
Reliable power connectivity for telecom sites, equipment, rack infrastructure and critical environments.

-  Reliable
-  Shielded
-  Rugged
-  Application-Specific

Wide Range



RRU / BBU Power Cables
used in Cell Sites



Grounding
Cables



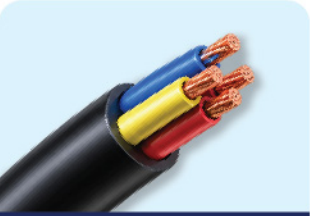
Screened
Power Cables



Shielded
Power Cables



Armoured
Power Cables



Multi-Core
Power Cables



Equipment
Power Connectivity



Rack
Power Connectivity

Applications



Telecom



Industrial



Equipment &
Rack Infrastructure



Data Center

4G / 5G Telecom Infrastructure

Infrastructure for 4G & 5G Networks

Semita supports mobile network deployment with coordinated physical infrastructure spanning fiber, RF, power, grounding, timing and installation components.



Reliable
Infrastructure



Efficient
Deployment



Network
Resilience



A Connected
Tomorrow

Wide Range



CPRI



RF Jumper



GPS Timing
Antenna



AISG Cables



Surge
Protection



CAT 6
Assemblies



Power
Assemblies



Cable
Clamps



Grounding
Kits



RF Connectors



Weather
Proofing Kits



DAS / IBS



In-Building Wireless Infrastructure



Semita supports connectivity and coverage infrastructure with antenna, DAS / IBS and passive / active component portfolios.



Reliable Coverage



High Performance



Scalable Solutions

Wide Range



Antennas

GPS, Omni, Directional/Panel, SISO/MIMO Variants



RF Connectivity

RF Cable Assemblies, Jumpers, Feeder Connectivity, AISG Cables



DAS / IBS

Active DAS, Passive DAS, Indoor and Outdoor Coverage



Passive RF

Power Splitters, Directional Couplers, Hybrid Couplers, Combiners, Surge Protection



Active infrastructure

Repeaters



Omnidirectional Antennas MiMo



Panel Antennas 2X2 MiMo



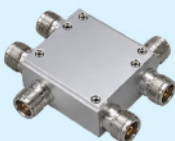
RF Connectors



Repeaters



RF Distribution Cables



Hybrid Couplers



Power Splitters

From Connectivity to Compute



From Connecting the Network to Enabling the Compute

Semita Technologies has built capabilities across telecom, RF, optical, copper and power infrastructure. Semita Nexis extends these capabilities into the physical infrastructure surrounding modern computing environments.



Tower



Fiber



MPO/MTP



Optical Transceiver



Network Switch



Rack



Power



Cooling



Compute



Semita Nexis Capabilities



Data Center Physical Infrastructure

Semita Nexis brings together rack, power, cooling and connectivity to simplify deployment of modern enterprise, edge and high-density computing infrastructure.



01

RACK

IT racks, Micro Data Centers, high-density racks, containment, accessories, integrated rack monitoring.



02

POWER

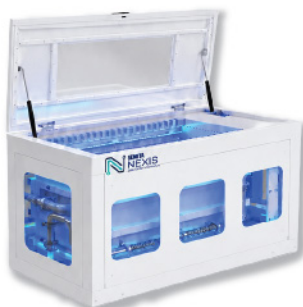
UPS integration, battery systems, rack PDU, intelligent PDU, power distribution, busway, shielded power connectivity.



03

COOLING

Precision cooling, rack-level cooling, high-density cooling, immersion liquid cooling, CDU-based architectures.



04

CONNECTIVITY

Optical transceivers, MPO/MTP, fiber patching, copper patching, structured cabling, power connectivity.



Reliable Infrastructure for a Connected World

NexisRack Micro Data Center



A Complete Data Center. Anywhere.

NexisRack is an integrated Micro Data Center platform combining rack, UPS, battery, power distribution, precision cooling, connectivity, physical security and monitoring to support rapid deployment at edge, branch and enterprise locations.



Compact

Maximum capability in minimal space



Integrated

All critical infrastructure in one platform



Plug & Play

Quick and easy deployment



Secure

Physical security and intelligent monitoring



Fast to Deploy

Reduce time to operations



Scalable

Grows with your business

What's Inside?



Rack

IT rack with integrated cable management and accessories.



UPS & Battery

Reliable power protection with UPS and battery systems.



Power Distribution

Intelligent PDU for safe and efficient power distribution.



Precision Cooling

Efficient cooling for optimal performance in compact spaces.



Connectivity

Fiber and copper connectivity for seamless integration.



Physical Security

Secure access and environmental protection.



Integrated Monitoring

Real-time monitoring inside the rack.

NexisRack Product Portfolio & Capacity

From Compact Edge to Multi-Cabinet Infrastructure

NexisRack scales from compact single-cabinet edge deployments to larger integrated multi-cabinet environments.



EC20

Compact. Reliable.
Anywhere.



ER03

Integrated.
Scalable. Efficient.



ER05

Built for
Growth.



ER07

Higher Capacity.
Custom Ready.

Selection Factor	RDC-01	RDC-03	RDC-05	RDC-07
Cabinet arrangement	1 combined cabinet	1 combined + 2 IT	1 combined + 4 IT	1 combined + 6 IT
Reference UPS	3 kVA	10 kVA	20 + 20 kVA	30 + 30 kVA
Reference cooling	3.5 kW rack unit	12.5 kW in-row	2 × 12.5 kW in-row	25.1 + 25.1 kW in-row
Reference redundancy	N	N	N+1	N+1
IT capacity indicator	28U available	29U + 2 × 42U	30U + 4 × 42U	6 × 42U IT cabinets
Primary fit	Small branch / edge	Larger local IT	Resilient multi-rack site	High-capacity edge block

NexisRack Architecture & Customer Value

Integrated Infrastructure. Simplified Deployment.

NexisRack replaces fragmented site-level infrastructure integration with a factory-integrated, modular platform designed for faster rollout and more predictable operation.

-  **Servers / Storage**
Compute and storage in a unified platform
-  **Network**
SFP + MPO/MTP + Fiber/Copper
-  **PDU**
Power distribution units
-  **UPS + Battery**
Reliable power backup
-  **Precision Cooling**
Efficient thermal management
-  **Integrated Rack Monitoring**
Real-time visibility and alerts
-  **Physical Security**
Access control and door monitoring



- | | | | |
|---|---|---|---|
| 
Integrated Engineering
Pre-engineered and factory-integrated for seamless operation. | 
Reduced Site-level Integration
Minimizes multi-vendor coordination and onsite complexity. | 
Faster Deployment
Get to operation quicker with a ready-to-deploy solution. | 
Standardized Infrastructure
Consistent, reliable and repeatable deployments. |
| 
Rack-level Visibility
Monitor power, cooling, environment and security in real time. | 
Simplified Connectivity
SFP + MPO/MTP + Fiber/Copper for flexible & high-speed connectivity. | 
Scalable Rollout
From single rack to multi-cabinet infrastructure. | 
Lower Deployment Complexity
Less time, less risk, more predictability. |



NexisRack Applications

Bring the Data Center Closer to the Workload

NexisRack enables standardized deployment of local compute and critical IT infrastructure where a conventional data-center build is impractical, slow or unnecessary.



Deploy
Anywhere



Secure
Operations



Ready
for Growth



Wide Range



Immersion Liquid Cooling

Integrated CDU + Liquid Cooling Tank Cabinet

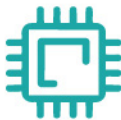
Advanced thermal infrastructure for AI, GPU, HPC and high-density computing workloads. The solution integrates a liquid cooling tank cabinet with CDU-based heat exchange for compact, modular deployment.



Key Features



Integrated CDU + Tank



High-Density Compute Support



Modular Deployment



Energy-Efficient Thermal Management



Flexible Deployment



Compatible Coolant

Value



Higher Thermal Density



Efficient Direct Heat Transfer



Reduced Airflow Dependency



Compact Cooling Infrastructure



Higher Compute Density



Future-Ready for AI Workloads

Key Technical Facts



Cabinet cooling capacity Up to

60 kW



Capacity Up to

60 kW

One Company. Complete Infrastructure Vision.



From 4G/5G Networks to AI Data Centers

Semita builds the physical infrastructure that connects, powers and supports the digital world.



TELECOM



OPTICAL



COPPER



POWER



RACK



COOLING



CONNECTIVITY

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