



DATA CENTER CABLES

Reliable Power, Control & Connectivity Cable Solutions for Modern Data Center Infrastructure

POWERING DIGITAL INFRASTRUCTURE

Gulix Cable Data Center Cable Solutions

Data centers require dependable cable systems that support uptime, safety, efficient power distribution and clean installation practices. Gulix Cable Data Center Cable Solutions are designed for critical electrical infrastructure including UPS systems, power distribution units, panels, server rooms, battery rooms, cooling equipment, control circuits and building services.

The range can support low-voltage power distribution, control wiring and project-specific cable requirements for hyperscale, colocation, enterprise and edge data center environments.

Key Performance Priorities

High Reliability	Designed for critical power routes where consistent performance and safe operation are essential.
Fire Safety Options	FR / FRLS / LSZH sheath options can be considered for indoor and fire-sensitive data center areas.
Efficient Power Distribution	Suitable cable construction for UPS output, PDU feeders, panel interconnection and equipment power supply.
Clean Installation	Flexible routing options for trays, risers, ducts, panels and protected cable pathways.
Mechanical Protection	Armoured options for areas requiring additional protection against impact or site handling stress.
Project Traceability	Cable marking, drum identification and documentation support project execution and maintenance.

Recommended Cable Portfolio

Cable Type	Typical Data Center Application
LT XLPE Power Cables	UPS feeders, PDU feeders, main distribution panels, power panels and critical load distribution.
LT PVC Power Cables	General low-voltage power supply for building services and support equipment.
Control Cables	Control panels, relay circuits, BMS panels, monitoring systems and automation wiring.
Flexible / Light Duty Cables	Protected equipment wiring, auxiliary circuits and low-load internal connections.
Armoured Cables	Mechanical protection for cable trenches, risers, plant rooms and service areas.
FR / FRLS / LSZH Sheath Options	Fire-sensitive indoor routing, server room support areas and public-access zones.

Typical Construction Options

Conductor	Aluminium / Copper conductor as per load, design and project requirement.
Insulation	XLPE / PVC insulation options depending on application and approved specification.
Inner Sheath	PVC / HR PVC / FR / FRLS bedding for armoured construction.
Armouring	Galvanised steel strip/wire for multi-core cables; suitable non-magnetic option for single-core AC systems.
Outer Sheath	PVC / HR PVC / FR / FRLS / LSZH option subject to requirement and feasibility.
Marking	Brand, size, voltage grade, batch and meter marking as per manufacturing practice.

Technical Snapshot

Parameter	Gulix Cable Data Center Cable Offering
Application	Critical power distribution, UPS, PDU, panels, cooling equipment, control and auxiliary circuits
Voltage grade	Common low-voltage grades as per product and project requirement
Conductor	Aluminium / Copper conductor options
Insulation	XLPE / PVC / HR PVC options as per cable type
Core options	Single core, multi-core and control cable options subject to requirement
Construction	Armoured / un-armoured options
Sheath options	PVC / HR PVC / FR / FRLS / LSZH as per approved specification
Packing	Wooden drums / coils / bundles depending on cable size and order quantity
Compliance	To be supplied as per applicable standard, customer specification and approved datasheet

Applications Inside Data Centers

- UPS input and output feeders
- Power distribution unit and panel feeders
- Server room and electrical room support circuits
- Battery room and backup power infrastructure
- Cooling plant, HVAC and pump power supply
- BMS, monitoring, control and relay circuits
- Lighting, auxiliary and facility electrical systems

Quality & Testing Focus

- Conductor resistance and dimensional checks.
- Insulation and sheath thickness verification.
- High-voltage withstand and insulation resistance checks as applicable.
- Visual inspection for sheath finish, marking and packing.
- Drum identification and dispatch documentation for traceability.
- Project-specific inspection and documentation support subject to order terms.

Selection Guidance for Data Center Projects

- Select cable size based on load current, voltage drop, short-circuit level and route length.
- Consider redundancy architecture, UPS design, PDU layout and future expansion requirements.
- Apply derating factors for cable tray grouping, ambient temperature, installation method and ventilation conditions.
- Use FR / FRLS / LSZH sheath options for indoor, critical and fire-sensitive areas as per project specification.
- Choose armoured cable where mechanical protection is required in risers, trenches or service corridors.
- Coordinate final cable schedule with electrical consultant, EPC contractor and data center operations team.



Gulix Cable
Powering Possibilities

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