

Data Center Cable Solutions

In the data center industry, the ongoing and reliable operation of servers and networking equipment is crucial. At Amphenol TPC Wire and Cable, we understand the critical nature of data center operations. Our range of cable products, including Medium Voltage, MV-105 Cable, DLO Cable, Tray Cables, and custom designed products, are specifically manufactured to meet the unique needs of the data center industry. These cables are designed to withstand the common challenges in data centers and data center construction, such as lead-time constraints and applications with abrasion, chemical exposure, and extreme temperatures.



Why Choose Amphenol TPC Wire and Cable?

Unmatched Reliability

In an industry where downtime is not an option, our cables deliver the reliability you need. Rated for high-heat environments, UV resistant, highly flexible, and color-coded for easy installation, our cables undergo rigorous testing to ensure they can handle continuous operation in high-density environments.

Installation Efficiency

Superior flexibility and reduced diameter cables to allow for installation density and faster installation times in small spaces. Saving valuable hours, days, and weeks in installation labor.

Rapid Service

Our customers enjoy shortened lead times and efficient project management, which accelerates their builds, reduces construction delays, and helps them become operational faster. Additionally, we offer stock or made-to-order products cut-to-length and connectorization services to simplify and speed up the build process.

Technical Expertise

With extensive knowledge across diverse end-user applications, our technical support team helps you select the right product for your demanding environments and installation milestones.

Custom Solutions

We recognize that each data center has unique requirements and is constantly evolving with new technologies. That's why we offer customizable cable solutions to adapt to your facility's changing needs across all systems and in the new grid-to-rack processes.



We've Got You Covered

Amphenol TPC offers high-performance cables designed for durability and cost savings, suitable for various Data Center applications.

	Data Center Applications	Hazards	Solutions
Power & Distribution	<ul style="list-style-type: none"> • Low Voltage Power Distribution • Step Down Power Systems • On-Site Power Gen • Generators/Temp Power • Power Storage & BESS • PDC (switchgear/transformers) 	<ul style="list-style-type: none"> • UV exposure • Abrasion • High and low temperature • Emergency deployment • Reeling and portability • Small radius flexibility • High-density wiring 	<ul style="list-style-type: none"> • Medium and Low Voltage Cable • Temperature resistant materials • Fine stranded flexing designs • UV Resistant outer jackets • Abrasion-resistant thermoset materials • Reduced diameter cable design
HVAC & Environmental Controls	<ul style="list-style-type: none"> • Building management Sensors/Data/Control • Chillers and Cooling System • Fans • Pumps • Rack Cooling • Immersion Cooling 	<ul style="list-style-type: none"> • High and low temperature • Notch and cut risks (in racking/tray entry) • Burial ingress • Vibration and abrasion • Small radius flexibility • High-density wiring 	<ul style="list-style-type: none"> • Temperature resistant materials • Tray rating and cut resistance • Non-wicking fillers prevent ingress damage • Reduced diameter cable designs • Abrasion and vibration resistant materials
Operations & Data	<ul style="list-style-type: none"> • Safety controls and monitoring 	<ul style="list-style-type: none"> • Notch and cut risks (in racking/tray entry) • Small radius flexibility • High-density wiring 	<ul style="list-style-type: none"> • Tray rating and cut resistance • Reduced diameter cable designs • Fine stranded flexing design • High conductor count control cables
New & Emerging Technologies	<ul style="list-style-type: none"> • Alternative fuel gen-sets • Fuel cell power • Heat recovery systems • ESG consideration • Liquid cooling systems 	<ul style="list-style-type: none"> • High and low temperature • Chemical resistance • ESG regulations and environmental concerns 	<ul style="list-style-type: none"> • Custom-designed cables • ESG-friendly custom materials • Chemically resistant cable jackets • Temperature-resistant sleeving



Custom Designed to Meet Your Needs

If your data center operation requires a unique solution, Amphenol TPC Wire & Cable offers custom-engineered products designed to your specifications. These product solutions represent a unique and valuable service offered by ATPC to save you time and money. Our highly agile engineers are focused on providing the best solutions through tested electrical, mechanical, and industrial engineering experience. We offer rapid prototyping, 3D printing, and manufacturing of end-to-end solutions. There is no job that our team can't tackle. Our engineering team is ready to design a custom solution for you!

Highlighted Products & Capabilities:

- Custom Wire and Cable
- Cordsets
- Cable Assemblies
- Custom Storage / Cable Deployment
- Emergency Power Cable Reels & Enclosures
- UL, CSA, & Unique Ratings
- IPC and ISO Manufacturing & Assembly



Scan the QR code to learn more at tpcwire.com



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