Press release

Powering the AI Infrastructure Boom

High-Speed Cable Marking with LEIBINGER

Tuttlingen (Germany), October 20, 2026 – As investment in AI data centers accelerates worldwide, demand for fiber-optic, power and connectivity cables is rising rapidly. LEIBINGER helps cable manufacturers turn this growth into reliable, efficient production output - with cable marking solutions developed for demanding extrusion processes.

What connects the rapidly growing world of AI?
Behind every AI model, cloud service and data center is an extensive physical network. Fiber-optic cables transmit vast volumes of data within data centers, between facilities and across long-distance communication networks. Power and connectivity cables provide the energy and connections required to keep this infrastructure operating.

The scale of this development is becoming increasingly visible. In July 2026, Prysmian announced a ten-year agreement with Molex worth up to €5.5 billion* for optical cables used inside data centers, alongside a major expansion of its fiber and optical cable production capacity in the United States and Europe.
*Source: https://www.prysmian.com/en/media/press-releases/digital-solutions-20-07-2026

For cable manufacturers, the AI infrastructure boom creates growing order volumes, new applications and opportunities to expand production.

The central question is: How can manufacturers keep up with this rapidly growing demand with dependable output and on-time delivery?

From increasing demand to productive output
Many leading cable manufacturers around the world already rely on LEIBINGER coding solutions, including Prysmian, Corning and HFCL. Their applications range from industrial and building cables to high-volume optical-fiber cable production worldwide.

They all share the same objective: keeping their extrusion lines productive while ensuring that every cable leaves their factory with clear, durable and accurately positioned information.

A high-performance cable marking system should:

- exceed the speed of the extrusion line

- print consistently legible codes
- be ready when production starts
- support fast product and print job changes
- integrate easily into existing equipment
- provide a durable code with no transfer when coiled
- require minimal operator intervention and maintenance

In other words, marking should actively support production performance.

How fast can cables be marked?
The LEIBINGER JET RAPID WIRE is specifically designed for high-speed cable, wire, pipe and tube production. It can mark extrusion products at speeds of up to 1,000 meters per minute. Small characters down to 0.8 millimeters can be applied even to narrow cables. Specially developed printhead covers allow the cable to pass particularly close to the nozzle, supporting precise marking at maximum line speed- even on cables with diameters of 5 millimeters or less.

The contactless Continuous Inkjet process applies fixed and variable information directly onto the moving cable without affecting its surface.

Typical print content includes product and cable specifications, meter or feet markings, production dates and times, lot, batch and order numbers, standards and certification information, manufacturer and traceability data.

Flexible print job management, multiple fonts and languages, and industry-specific software functions enable manufacturers to respond efficiently to changing products, markets and customer requirements.

Which inks are suitable for high-speed cable marking?
Printer speed is only one part of reliable cable coding. The ink must also dry quickly, adhere securely and remain legible throughout winding, storage and further processing.

LEIBINGER develops and produces its own inks and matches them to the printer, cable material and production environment. The portfolio includes fast-drying inks for high-speed applications, formulations for hard to mark materials, as well as highly abrasion- and transfer-resistant inks.

Freshly printed cables are often wound onto reels immediately after marking. A suitable ink keeps the code exactly where it belongs instead of transferring a mirrored impression - often called a transfer or ghost print - onto the neighboring cable layer.

For dark and black cables, the JET RAPID WIRE PI uses high-contrast pigmented inks. Its integrated ink management system regularly stirs the ink inside the tank, maintaining a homogeneous pigment distribution and stable viscosity. This supports consistent, high-contrast printing throughout production.

Designed for efficiency – from integration to operation
All LEIBINGER CIJ printers use automatic nozzle sealing technology. Whenever printing stops, the nozzle and ink circuit are sealed airtight while the ink remains in controlled circulation. This prevents the ink from drying inside the printhead. When the line restarts, the printer is immediately ready to continue—without routine printhead cleaning or lengthy startup procedures.

The result is more productivity per line and output gains from 20-50% when compared to traditional competitors. "While looking for a new CIJ equipment, we came across the company LEIBINGER. I have to say, this has been our best move so far. Previously, we had a cleaning effort of 2 to 3 hours a day, this is completely eliminated. I highly recommend the LEIBINGER company", says Jürgen Eberle, ABB Schweiz AG, Area PMA Kabelschutzsysteme, Switzerland.

LEIBINGER systems also offer straightforward integration, intuitive operation and flexible print job management. The JET RAPID WIRE provides numerous industrial interfaces for Plug & Print integration. For manufacturers with an additional focus on connectivity and resource efficiency, the IQJET offers OPC UA, an integrated PLC, and up to 50% lower solvent consumption than conventional CIJ printers. With dye-based standard inks, it requires no scheduled maintenance for up to five years or 20,000 operating hours.

When material, ink and printing technology work together
Cable production is one of LEIBINGER's key industries. The company combines dedicated high-speed and pigmented-ink printers with in-house ink development, application testing and decades of extrusion expertise.

The appropriate solution is selected according to the cable material, color, diameter, production speed, print content and downstream process. A global network of more than 150 partners provides local application knowledge and support close to cable manufacturers worldwide.

As AI infrastructure continues to expand, cable manufacturers need production systems capable of supporting the next phase of growth. LEIBINGER keeps extrusion lines moving, codes clear and production ready for rising global demand.

www.leibinger-group.com

Image Captions:

	High-performance cables underpin the expansion of AI infrastructure. LEIBINGER supports their efficient production with reliable coding – even at top speeds. Source: Paul Leibinger GmbH & Co. KG
	The AI infrastructure boom is placing greater demands on cable production. LEIBINGER printers support efficient marking with high printing speeds, fast startups and minimal maintenance. Quelle: Paul Leibinger GmbH & Co. KG
	Precise cable coding at high speeds: The specially designed printhead allows cables to pass particularly close to the nozzle, supporting printing speeds of up to 1,000 m/min. Source: Paul Leibinger GmbH & Co. KG

Press Contact
Paul LEIBINGER GmbH & Co. KG
Maren Klose / Aljona Barberio (Marketing)
Daimlerstraße 14
78532 Tuttlingen
Tel.: +49(0)7461 / 9286-236
Fax: +49(0) 7461 / 9286-199
E-Mail: press@leibinger-group.com
Website: www.leibinger-group.com

If published, please send a file copy to the Marketing Department.

About Paul Leibinger GmbH & Co. KG (LEIBINGER)
LEIBINGER is a globally operating specialist in coding & marking systems with headquarters in Tuttlingen, Baden-Württemberg (Germany). The third-generation family-run company, founded in 1948, develops and produces industrial inkjet printers as well as inks for various applications – with a workforce of close to 350. Innovative technologies and an exceptionally high standard of quality are what distinguish LEIBINGER's advanced coding and marking solutions. As the inventor of a groundbreaking nozzle sealing technology that makes ink-based marking systems much less susceptible to contamination, LEIBINGER ensures greater productivity in the manufacturing of food and industrial products – with tens of thousands of successful installations worldwide. A global network with some 150 distribution partners and subsidiaries in the US and China ensures that LEIBINGER is ideally positioned to maintain close relationships with its many customers worldwide.