Solutions for Mobile Communication Networks

Components for: Mobile Radio Base Stations, FTTH, Microwave Links, Backhaul/IP, In-Building Wireless/DAS
YOUR EXPERT FOR MOBILE COMMUNICATION NETWORKS
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Professional Connectivity Solutions

Telegärtner Karl Gärtner GmbH is a leading manufacturer of professional, high-quality connectivity solutions. Headquartered in Steinenbronn near Stuttgart in south-west Germany, Telegärtner is proud to serve its customers globally. Our comprehensive portfolio of innovative product solutions includes RF coaxial connectors and connecting hardware for structured cabling of office buildings, homes, industrial premises, data centers and mobile communication networks.

In its more than 70 year history, Telegärtner Karl Gärtner GmbH has evolved from a spare parts supplier for telephone installations in American barracks to a leading manufacturer of coaxial, twisted pair and fiber optic components. This extraordinary evolution was possible by combining traditional values like quality and reliability with innovation, flexibility and short turn-around times. Throughout the years, Telegärtner has had one goal: to provide customers with excellent product solutions that help them to be even more successful.

All of Telegärtner’s infrastructure components have three distinguishing features: superior quality, the possibility of creating application and customer specific types and instant availability. Whether a large or small product series is required, Telegärtner is the ideal supplier and development partner for customers who expect the best contacts for their success.
Whether in Tokyo, Chicago or London – With more than 600 employees, Telegärtner is present all over the world. Naturally, all products comply with the applicable international standards. We are where our customers are, providing the best contacts for your success.
You are looking for an individual solution? And you don’t have any time to waste? Then Telegärtner should be your first choice. With the experience of many thousands of special designs and a CAD database with more than 15,000 individual parts, Telegärtner offers you cutting edge performance: fast response, short development cycles, qualified consulting and outstanding logistics – also for small and medium sized series at a surprisingly affordable price!
The reliability of a mobile communication connection depends essentially on the antenna used. This must ensure reliable transmission and reception of data and signals even under the most difficult conditions and stress situations.

Telegärtner’s product solutions for Mobile Communication Networks are developed using powerful CAD systems and rigorously tested with high-performance network analyzers and intermodulation test benches in the Telegärtner Labs.

A well-balanced combination of fully automated, semi-automated and manual manufacturing processes allows a high level of flexibility. Telegärtner’s quality levels exceed the specifications set by the standards. ISO specifications are merely the basis for Telegärtner’s high quality standards, which are raised daily. To document this, Telegärtner has established a quality assurance programme according to DIN EN ISO 9001:2008 and DIN EN ISO 14001:2004 for the entire flow of goods from goods received through manufacturing to shipping and maintenance.

A fully automated state-of-the-art warehouse with more than 28,000 containers ensures that our customers receive the right product at the right place and the right time. 24-hour delivery time ex works is the standard Telegärtner sets. Who can compete with that?
Mobility has become an integral part of our life, and mobile communication is a must in today’s world. The networks all this is based on have to be robust, reliable and economical.

**Surge Supressors**

Communication systems are always threatened by surges. In order to protect the investment of its customers, Telegärtner offers surge supressors with gas discharge tubes (GDT) or λ/4 shorting stubs. Supressors are available with a huge variety of different connectors types.

**Inter Series Adaptors**

One solution doesn’t always fit all. Applications and devices vary, and so do the connectors. Telegärtner bridges the gap between different solutions and connector types and offers a wide selection of inter series adaptors. Best contacts for your success.

**RF Connectors**

Telegärtner is a leading manufacturer of RF connectors for mobile communication networks like N, 7-16 and 4.3-10. Outstanding passive intermodulation values and easy installation on a wide range of coaxial cables from 1/4” to 1 5/8” make Telegärtner the first choice for RF connectors.
Jumper Cables

Straight or angled, with the same or different connectors on each end, Telegärtner offers an impressive portfolio of IP68 rated jumper cables. Customers can conveniently select jumpers with standard lengths from the catalogue or configure them exactly to their needs using the user-friendly COAX configurator on the Telegärtner website.

RET Cables

RET cables connect the Master Control Unit (MCU) with one or more RET components. Telegärtner’s RET cables are IP67 rated and come with AISG and/or D-Sub connectors and a halogen-free, flame retardant and UV stable jacket.

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Optical fibers, nearly as thin as the lines of these letters, transmit enormous amounts of voice and data signals. Any service any time, any place leads to an ever-growing bandwidth demand. So it’s only logical to connect mobile radio antennas to optical fibers – for higher performance at lower costs.

TOC-TDC
TOC-TDC is the new generation connector for FTTA and broadcast applications. The compact, durable and reliable TOC-TDC is easy to connect and disconnect even under adverse conditions.

STX V1
STX connectors are the first choice for mission-critical applications in harsh environments. Available with an electrically isolated plastic housing or with an extremely durable metal housing, STX connectors are the tough guys you can count on.

TOC-FXC
Pluggable optical modules are not made for outdoor use. TOC-FXC protects the connection of fiber cables to pluggables and allows the LC connector to move in the housing for easy and reliable connection.
TOC-FEM

TOC-FEM is an ideal solution when cables have to be cut and re-connected or when new cables have to be connected to legacy cabling. Its robust metal casing can be securely attached to mounting brackets, cable pathways and poles.

TOC-RBC

The TOC-RBC offers quick and easy connections for applications where water and dust protection with low mechanical demands is needed. The flexible boot allows easy cable routing for improved cable management.
Would you like to dig up the roads of a big city or the stony ground in the mountains? No need, as microwave links offer a cost-effective solution with cutting-edge performance. To work properly, they need a free line of sight and a reliable connection to the network.

MICROWAVE LINKS

TOC
With the extended temperature range of -40°C to +85°C, the IP68 rated TOC product line of durable connector cases protects copper and fiber optic connections in harsh outdoor and indoor environments. Locking, strain relieving and sealing is done with just one turn for fast and easy installation.

RJ45 Surge Protection
As more and more outdoor equipment uses the IP protocol, there is a growing demand for surge protection of twisted pair connections. Telegärtner’s RJ45-SPD Class E6 offers full 10 Gbps performance and allows the devices to be powered by Power over Ethernet Plus (PoE+).
MFP8/UFP8 Connectors

The shielded MFP8 Cat.6A and the unshielded UFP8 Cat.6A RJ45 connectors can be installed on solid and stranded cables. As no special tools are required, they are the ideal solution for fast field-termination, offering both high-speed data transmission and remote powering.
It’s more than just a cable and a box. It’s the paths and junctions of the network all the voice and data signals use. Whatever runs over your network, it runs over the cabling. It’s good to know that Telegärtner paves the way for you.

Distribution Boxes

With cable glands or outdoor connectors, for data, power or a combination of both, for many or just a few connections – Telegärtner offers a vast range of indoor and outdoor distribution boxes. Customer specific solutions are available upon request.
Outdoor Cables

Outdoor cables have to be robust and easy to handle at the same time. Telegärtner offers a comprehensive selection of twisted pair and fiber optic outdoor cables in various designs to fit a huge variety of applications.

Hybrid Cables

Hybrid cables eliminate the need for two or three different cables to connect just one device. Power, control and data are conveniently transmitted within the same cable. Customers can choose between twisted pair, multimode and singlemode optical fibers for data transmission.
No mobile network works completely wirelessly. In fact, most parts of mobile communication networks are wired for better performance and higher reliability. The backhaul cabling is the highway voice and data signals need for safe and fast travel.

**RJ45 Patch Cords**

Many networking problems are caused by the cabling infrastructure, by mismatched components and worn parts. Far too often, cheap patch cords cause high bit error rates and network problems. That’s why Telegärtner pays careful attention to details when developing and manufacturing cords. On top of superior quality, Telegärtner patch cords feature useful details like bended boots to save valuable space and make patching easier.

**19” Copper Patch Panels**

Robust, reliable and easy-to-install patch panels of any component category, modular or with a common printed circuit board, standard or high density ... a comprehensive portfolio is at your service. And if anything is still missing – Telegärtner will be happy to supply you with customer-specific solutions.

**Cross Connect Panel**

Does a cross connect always have to have at least two panels connected by patch cords? Not necessarily. Why not turn it round and use the patch cords to connect the equipment with the panel and bridge the RJ45 ports within? This innovative solutions saves space and makes changes easy.
**Fiber Optic Patch Cords**

Of all components in a channel, patch cords have to endure highest stress and wear. This is why many users rely on patch cords made by Telegärtner: Perfectly matched components, highest quality standards and completely tracked manufacturing processes make sure the data network works safely and reliably.

**19” Fiber Optic Patch Panels**

Many ports in small space, yet easy to handle – fiber optic patch panels reflect Telegärtner’s decades of experience in a dynamic, demanding field. Installers and users alike appreciate the robust design of these reliable patch panels, available in a large variety of standard and customer specific designs.
Fiber Optic Mini Distributors

Mini distributors are the perfect choice for small networks. Accommodating up to three small 7 PU standard frontplates, they offer an unrivaled versatility and flexibility with extremely small space requirements.

No need to change from wireless to fixed line when entering a building. In building wireless networks offer the benefits users appreciate, like roaming and seamless transfer from one network to another. Telegärtner knows wireless networks – inside out.

IN-BUILDING ANTENNA SYSTEMS

Ready-To-Install Fiber Optic Links

Pre-terminated, ready-to-install fiber optic links make it easy to install fiber optic cabling. Just configure the links online by using our TICNET-Configurator, order, receive, unpack and install them – “plug and play” in the very best sense.

Fiber Optic Wall Boxes

Fiber optic wall boxes offer a maximum amount of ports using a minimum of space. They offer easy and reliable patching even in high density applications. Made of durable materials, wall boxes are an ideal solution for installations without dedicated telecommunications rooms.

Fiber Optic Mini Distributors

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Distributed antenna systems don’t offer much space. Telegärtner’s LC EasyGrip connector was specifically designed for ports which are difficult to reach. The extra-long locking lever allows safe handling where other connectors can’t be handled reliably anymore. Innovation by Telegärtner.

Telegärtner’s highly successful TICNET-Configurator has become a very much appreciated tool among installers, network designers and end-users to configure factory terminated fiber optic and copper solutions online at any time.

www.telegaertner.com/go/ticnet/en
**In-Building Antenna Systems**

**No limits.** For communication, nor for technology. In-building wireless systems are not limited to areas or rooms, and neither should they be limited to a cable medium. Telegärtner offers solutions for fiber optic, twisted pair and coaxial connections to give the customers the unlimited freedom to choose.

**Surface Mount Distributors**

Small, discrete and reliable. Wherever cables have to be terminated in small spaces, space-saving wall mount distributors are the first choice. Telegärtner offers a vast selection of wall and ceiling mount distribution solutions. Size matters. The smaller, the better.

**Angled Patch Cords**

Sometimes a straight exit just doesn’t solve the problem. Patch cords with angled connectors offer full performance but need a fraction of the space. When you are looking for an easy way out, this might be what you need.

**Horizontal Cable**

More than just a cable. Sophisticated engineering makes sure that horizontal cables that carry the Telegärtner brand not only allow higher performance but also higher power. And as remote powering is becoming more and more popular, the cables have been designed for that.
One size doesn’t always fit all. Neither does one connector type. Different systems use different connectors. Telegärtner bridges the gap and connects the different solutions to a complete system.

**Series 4.3-10**

Small, reliable and robust – coaxial connectors by Telegärtner are well-known for outstanding performance, high reliability and durability, whether they are used on radio towers or in suspended ceilings. Wherever you need a connection, Telegärtner is by your side.

**Adaptors 7-16, N, 4.3-10**

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**Corrugated Cables**

Robust AND flexible: Based on decades of experience in RF technology, Telegärtner offers a comprehensive portfolio of coaxial indoor cables that exceed common standards. Our customers have high standards, and so do we.
Tools and Accessories

Connection Modules

Modules to connect, extend or repair cables don’t have to take up a lot of space. The slim, space-saving design of Telegärtner’s high-performance connection modules allows not only single cables but entire bundles to be extended without problems. Versions for 19" installation in rugged wall-mounted housings and with mounting rail adaptors for fitting onto DIN rails are also available.

Splice Accessories

Useful, versatile splice cassettes and accessories save time and add to network reliability. Decades of experience in telecommunication networks helped design the Telegärtner product sets preferred by so many installers and network providers.

DIN Rail Mount

DIN rails can be found in more and more installations. Telegärtner offers robust DIN rail mounts for one connector as well as durable, compact mini patch panels with integrated splice cassettes.

Mounting Accessories

Surface or pole mount, in suspended ceilings, raised floors, cabinets or electrical distributors, indoor or outdoor – even the most innovative cabling component has to go somewhere. With the right mounting accessories, components and their housings can cope with the hazards of the environment.

C-Parts

It’s always a small part that puts a big project at risk. That’s why Telegärtner pays careful attention to details, from leading edge communication components down to C-parts.

Tools

Every craft needs appropriate tools to achieve the best possible results. For secure and reliable termination on-site, Telegärtner offers a wide assortment of handy tools for coax, twisted pair and fiber optic components.
BEST CONTACTS FOR YOUR SUCCESS.

Just contact us!