



Building Solutions

METZ CONNECT highlights at a glance

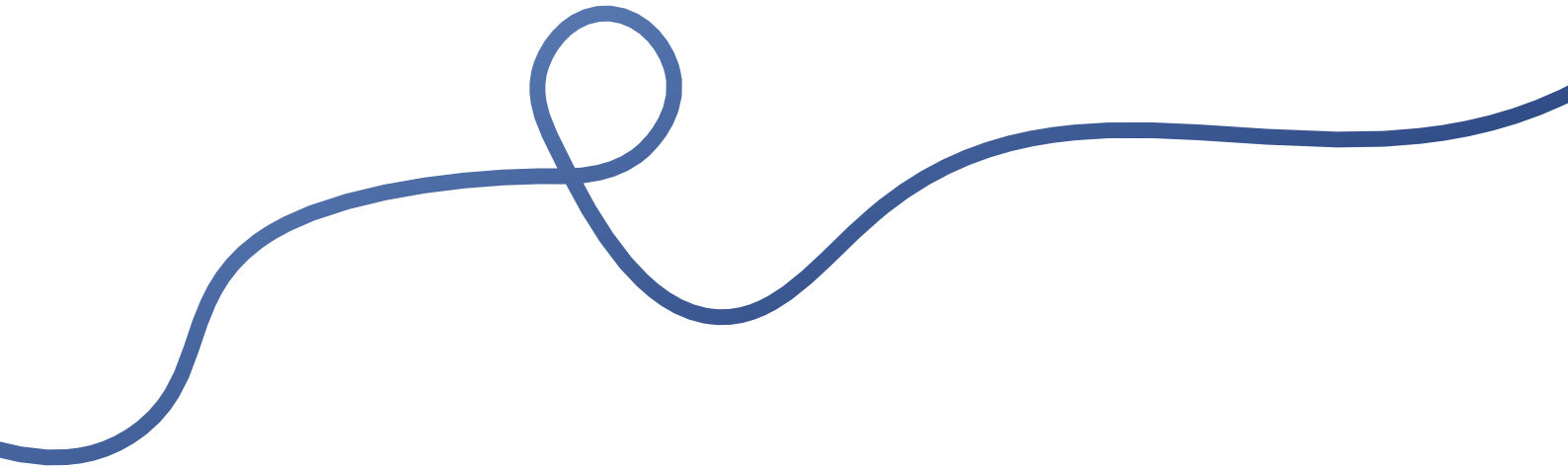




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We connect what the future needs.

Since 1976, METZ CONNECT, a medium-sized German family company, has demonstrated a profound sense of responsibility towards its employees, market partners, and the environment. Around 900 employees at the Blumberg (headquarters), Hungary and China locations work according to certified quality standards – with a clear focus on sustainable, efficient processes.

Our solutions ensure smooth data and signal flows worldwide – from the circuit board to the infrastructure of buildings, industrial plants and data centers. We stand for first-class contact technology and reliable connecting elements in the electrical and electronics sector and create reliable connections where they count.

Innovation, high development and manufacturing expertise, as well as close customer partnerships characterize our way of working. From idea to series production, we combine know-how with implementation strength. Highest quality standards and the continuous development of our employees are the basis for sustainable, long-term success.

As a family company, we see ourselves not merely as a supplier but as a reliable partner: We listen, think ahead and deliver solutions that will still hold up tomorrow – robust, secure and future-proof. Together with our customers, we shape progress and maintain our leading role in the market for connection technologies.



Product Areas

Innovation and consistency –
from the circuit board to the end device

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Data Network Technology

Copper and fiber optic components for structured network cabling.



Industrial Data & Signal Transmission

Stable data transmission and protection in demanding industrial environments.



Automation

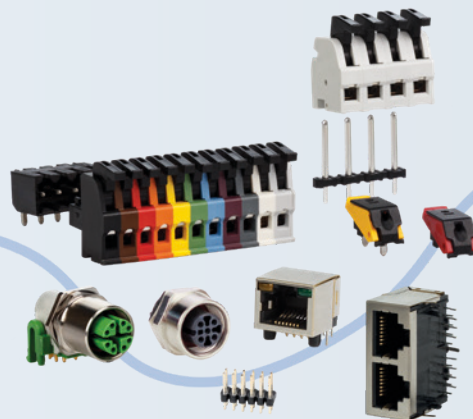
Reliable connections, precise control and intelligent components for building, process automation and monitoring.



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Device Connection Technology

Circuit board connection technology for connecting devices and controllers in building automation.



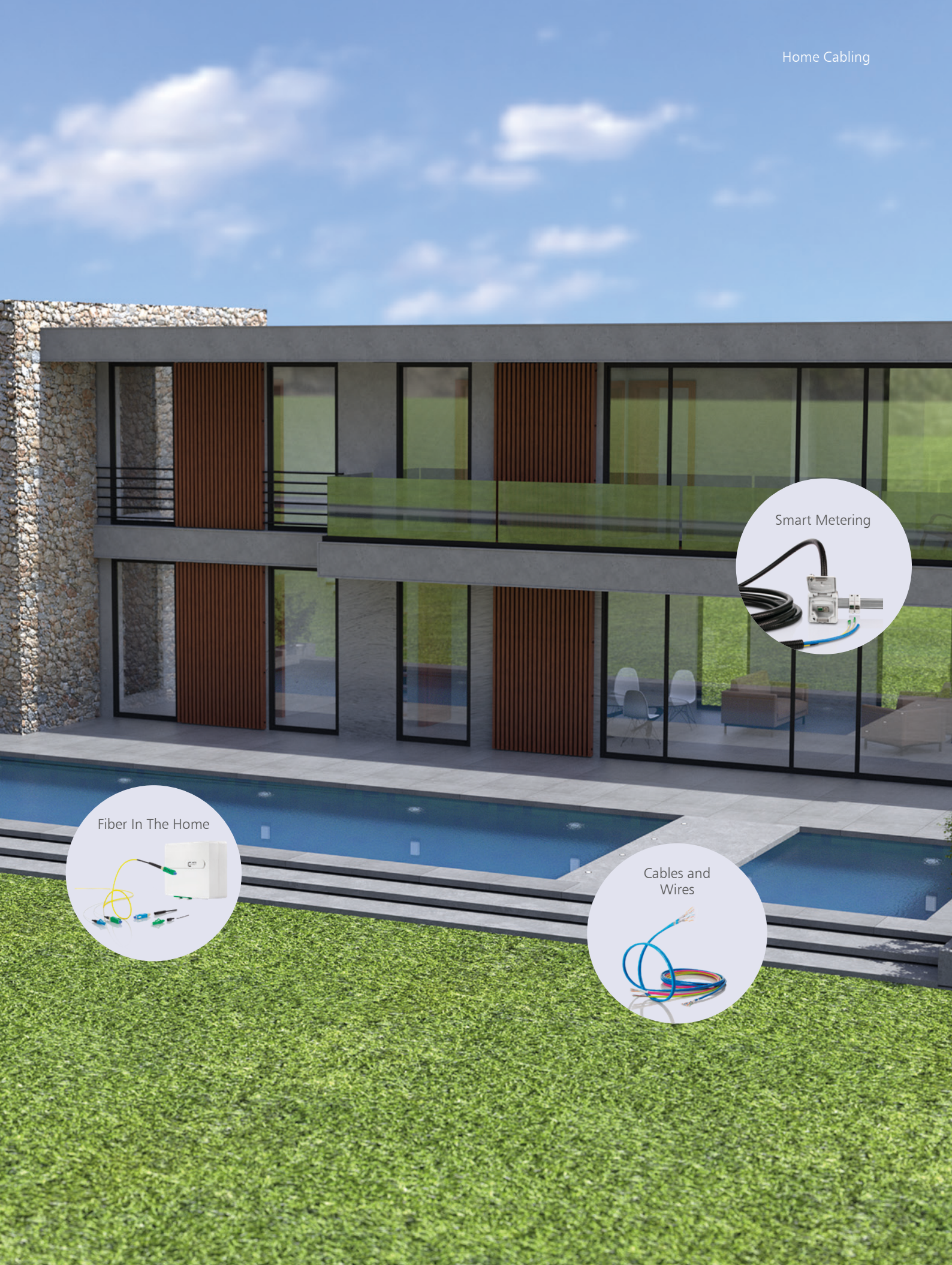
Home Cabling

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Data Network
Technology



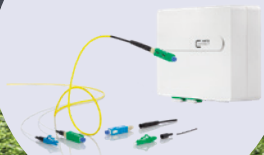
The further development of new communication and information technologies means that more and more media and communication devices can be found in the residential sector. Whether smart home applications, IP TV with HDTV, streaming, downloading large amounts of data from the internet, uploads to the cloud or home office – the demand for ever higher data rates keeps growing. In order to ensure continuous and smooth data transfer, application-neutral data network technology is a prerequisite.



Smart Metering



Fiber In The Home



Cables and Wires



Fiber In The Home

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The further development of new communication and information technologies means that more and more media and communication devices can be found in the residential sector. Whether smart home applications, IP TV with HDTV, streaming, downloading large amounts of data from the internet, uploads to the cloud or home office – applications demand ever higher data rates. To ensure continuous and smooth data transfer, residential buildings are increasingly being equipped with a fiber optic connection (Fiber to the Home, or FTTH for short).

FTTH means that data transmission from the exchange to the customer's connection is carried out entirely via fiber optic. A fiber optic house connection is installed in the building, with cabling within a house or apartment running via copper cabling from the provider's network termination unit. This way, speeds of 10 GBit/s and above are possible for the user.

From FTTH to FiTH

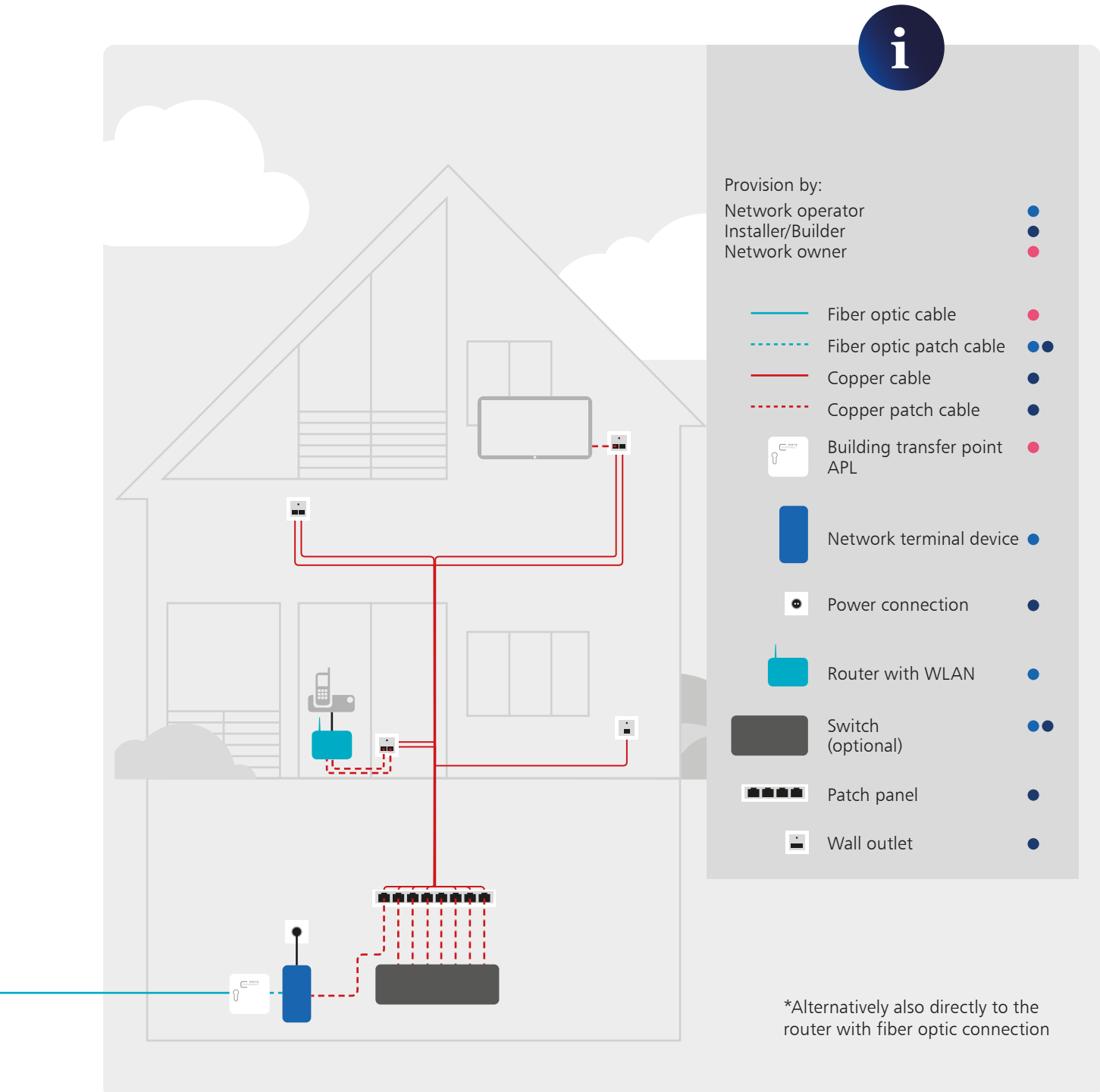
The network owner (e.g. municipality or special-purpose association) lays a fiber optic line to the house as part of the network expansion (network level 3). For this, the end customer concludes a house connection contract with the network operator. The line ends, for example, in the basement with the building transfer point APL. From network level 4 (house distribution | network level 5 apartment distribution) onwards, the provision of suitable cabling is the responsibility of the property owner; installation is carried out by an installer.

This means for a single-family home: The network termination unit provided by the operator, which is installed near the APL, requires a power connection. For a multi-family building, a fiber optic distributor must be installed in the basement and fiber optic cables run to each individual apartment. These terminate at the respective flat entry point.

Once the house connection is complete and the cabling has been laid, the owner can request the network operator to install the network termination unit. The prerequisite for this is a completed signal supply contract. The network termination unit supplies the router and end devices with fast internet.

In order to achieve the most optimal solutions here, it is advantageous to be able to rely on manufacturers who provide holistic support for the installation of future-oriented network solutions with products and services – from the building transfer point to fiber optic and copper cabling. After all, Fiber in the Home cabling represents high-quality and durable data highway connections for single- and multi-family homes and should be technically prepared for future applications. In addition, the systems should connect various home network and communication technologies such as telephone systems, consumer electronics, household appliances, surveillance cameras, door intercom systems, lighting and access control systems and smart home applications. Ideally, the applications enable further monitoring, control, regulation and optimization options from home or on the go.

Detached House



Fiber Optic Components

Install once – enjoy unlimited freedom!

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FO Installation Cables

Application area, number of fibers or fiber class. With our wide selection of FO installation cables, we always have the right cable for a future-proof network.

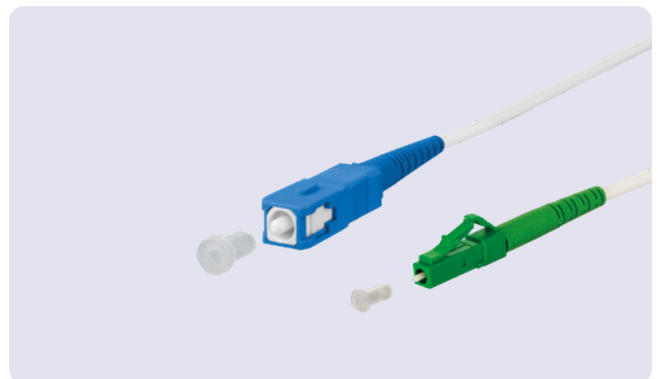
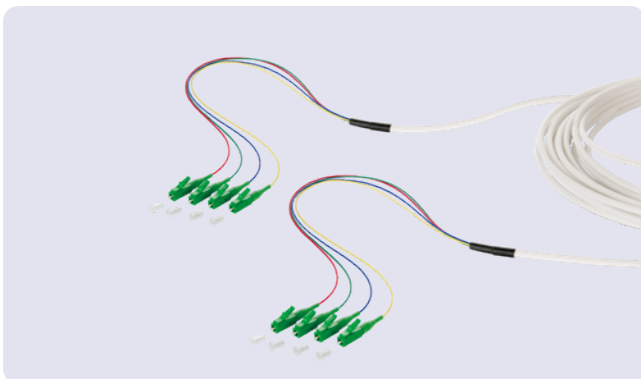
The best cables for your FITH cabling:

- **FITH Cable** – The cable with up to 4 fibers and 2.3 mm is easy to route and is ideally suited for splice connections.
- **Mini Breakout Cable Compact** – The robust 4.5 mm cable offers high mechanical stability and is ideally suited for the installation of field installable FO connectors.
- **Universal Cable** – For outdoor installation, e.g. building connection. Without connectors, number of fibers between 4 and 48.
- **Pre-assembled Installation Cables (VIK)** – All installation cables can be assembled with connectors. This enables fast and easy installation at high quality.

FO Patch Cords

For FO cabling we carry patch cords in various lengths in the fiber type OS2 (singlemode). For your Fiber in the Home cabling. Also for all other applications we have the right patch cord in various lengths and in the fiber types (OM3 – OM5 Multimode).

- **Fiber optic patch cord** – For connecting the building transfer point or network termination unit. Available in lengths from 0.2 to 100 m.



FO Wall Distributor / Housing

High-quality distributor housings for wall mounting. Can be used individually for your application. The housings ensure easy handling and thus minimal time expenditure during installation. We offer these in various sizes with different adapters and performance classes. For your Fiber in the Home cabling:

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- › **Building Transfer Point APL** – The building transfer point is the termination of the street network and the starting point of the in-house cabling.
- › **Flat Entry Point with cable reel (VADT)** – The flat entry point connects the apartment to the central distribution box of the building. The pre-assembled cable enables fast and easy installation.
- › **Flat Entry Point without cable reel (ADT)** – This flat entry point is suitable for subsequent installation of pre-assembled cables or for splicing installation cables with up to 8 fibers.
- › **Wall-Mounted Distributor** – A central distributor housing for the structured routing of fiber optic cables to the apartments.





Copper Components

For smooth data flow
in the building

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Wall Outlets

For structured cabling, we carry wall outlet solutions that guarantee maximum flexibility. Whether modular or compact wall outlets, underfloor units or connections for the DIN rail, we offer options for copper (RJ45) and FO connections with various port numbers in different performance classes. In addition to solutions with module installation type, we also carry a Keystone installation type.

- > Flush-mount wall outlet with one or two RJ45 jacks
- > Surface mount wall outlet with one or two RJ45 jacks

Consolidation Point (CP) | Service Concentration Point (SCP) | Service Outlet (SO)

Whether as classic consolidation points in tertiary cabling or as service concentration points for distributed building services for decentralized floor distributors, the surface-mount wall, ceiling, or floor housings for accommodating modular connections (copper and fiber optic) are versatile for the decentralized distribution of network cabling. The service outlets are to be seen as terminal outlets or subscriber connections and serve, for example, as unconventional wall outlets for devices in the area of distributed building services.



Installation Cables

We offer twisted pair installation cables in various wire cross-sections, shieldings, lengths and performance classes such as Cat.6_A, Cat.7 and Cat.7_A for a future-proof network. Further cable variants available on request.

> **Ethernet installation cable** – MC GC1300 pro22 Cat.7_A S/FTP 4P LSHF-FR 500 m. Fire behavior: Class D_{ca} s2 d2 a1, suitable for 10 Gigabit Ethernet.

Patch Cords

Patch cords from METZ CONNECT are the solution for your application in structured premises cabling. Our high-quality patch cords are used where high-speed data transmission in local area networks (LAN) is required.

> **Patch cord Cat.6_A AWG 26** – Suitable for 10 Gigabit Ethernet, available in additional color variants and lengths from 0.5 to 20 m.

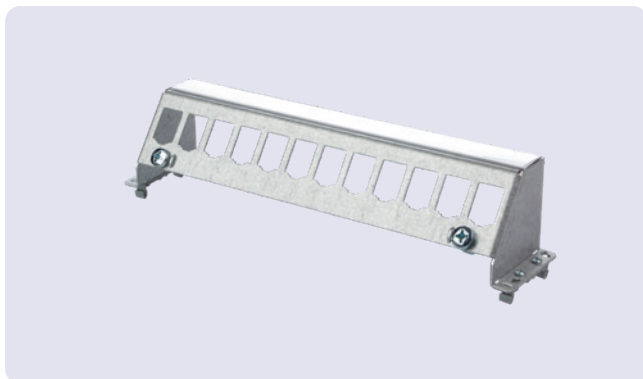
> **Patch cord Cat.6 Ultraflex500 VoIP AWG 26** – Particularly suitable for unshielded and shielded Class E_A systems; available in white, gray and black; lengths from 0.3 to 20 m available.



Patch Panels

For the distribution of structured cabling, we offer patch panels, module or subracks with matching accessories for copper and FO connections in module or compact design in different performance classes, height units and with various port numbers.

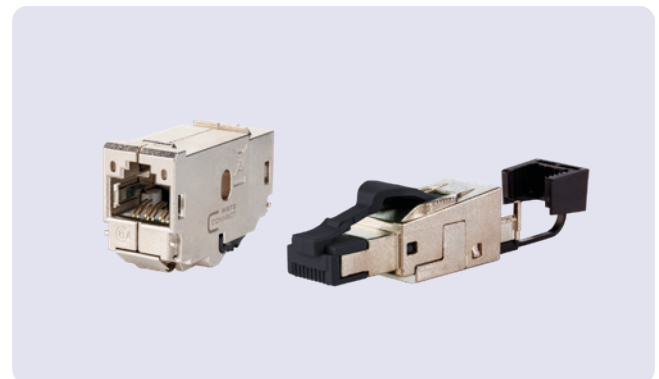
- › **Multimedia Distributor** – 12; 16; 24 port – empty module frame for accommodating data, coax and FO modules, installation type: module.



RJ45 Connectors and Jacks

The innovative, robust, high-quality and high-performance RJ45 connectors from METZ CONNECT are part of the basis of a reliable network infrastructure. Thanks to the connection technology of field assembly RJ45 connectors and jacks, installations can be carried out quickly and easily without special tools.

- › **Field assembly RJ45 connector, C6_A RJ45 field plug pro** – for direct connection, e.g. access point camera, suitable for 10 Gigabit Ethernet.
- › **C6_Amodul 180° jack** – Modular Cat.6_A termination unit RJ45, suitable for 10 Gigabit Ethernet. For installation in module surface mount housing and wall outlet.



Office Solutions

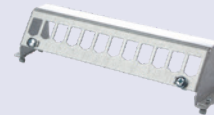
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Many PoE applications are no longer necessarily connected to the wall outlets, parapet channels, table solutions or floor outlets. Increasingly, these connections are moving into the ceiling, e.g. for WAPs, near doors, on presentation walls for e.g. digital signage, as well as outside buildings on exterior walls or lamp posts. An alternative to horizontal cabling is zone cabling in suspended ceilings. The horizontal cabling runs from the floor distributor to a specific area in the building. In this area, the service concentration point is located, from which the cabling leads to a service outlet or directly to the end devices. The background is a more flexible, simpler and more cost-effective modification of cabling when moving, adding or removing end devices.

Plugs and sockets



Patch panels





Ceiling cabling



Cables and wires



Consolidation Point



Underfloor unit



Connection sockets



Network Cabling Solutions

Structured cabling or universal building cabling (UBC) is a uniform design plan for a future-oriented and application-independent network infrastructure on which different services (voice or data) are transmitted. This is intended to avoid costly mis-installations and extensions and to facilitate the installation of new network

components. With products from METZ CONNECT, you are optimally connected: from floor distribution (patch panels, patch cords), via installation cables in copper and fiber optic, to subscriber connections (wall outlets) and much more.

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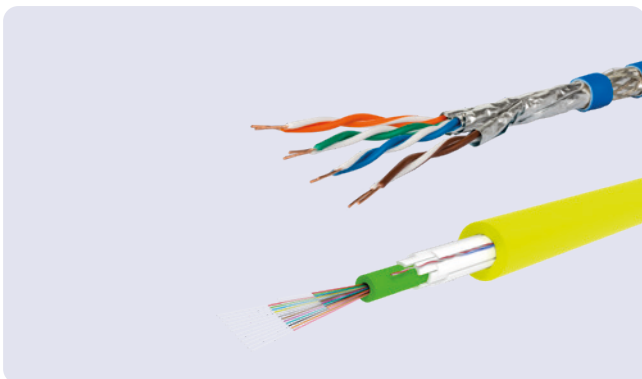


Cables in Copper and FO

The decision between FO or copper data cables as the ideal solution to the workplace depends on many factors: the application environment, the network basis and the planning horizon. Our high-quality cables are always used where high-speed data transmission in local area networks (LAN) is required. The cables are used for structured and application-neutral networks with transmission speeds from 100BaseT to 25 GBit Ethernet. In addition to voice and data communication, our solutions are suitable for remote powering of various end devices via Power over Ethernet (4PPoE up to 90 W) as well as HighEnd 4K video, e.g. HDBaseT. Our product range includes, among other things, installation and connection cables that have been tested for compatibility with common connection components.

Pre-assembled FO Installation Cables (VIK)

Pre-assembled installation cables (VIK) are FO cables fitted with connectors on one or both sides, manufactured under the highest quality requirements in manual individual production. VIKs are frequently used in combination with OpDAT patch panels. They enable a fast and easy-to-install point-to-point connection of passive and active network components. This significantly reduces installation time and costs compared to an installation with splices and pigtails or cabling with individual patch cords.

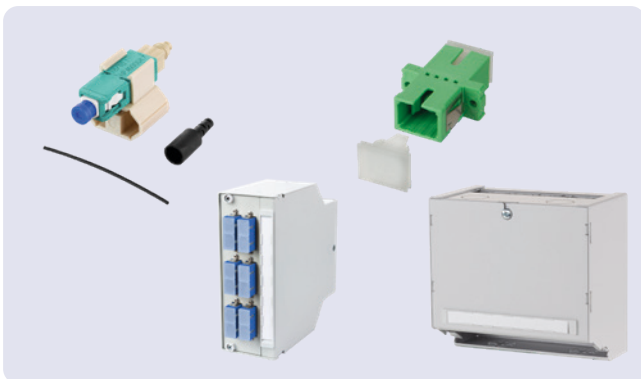


FO Cabling | Connectors and Adapters for Network Cabling

For optical wave transmission, we offer connectors and adapters in various performance classes such as OS2 for singlemode and OM3 to OM5 for multimode connections in protection classes IP20 and IP67.

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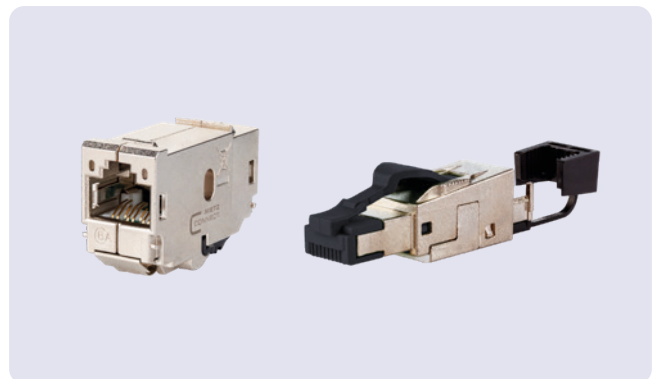
- › OpDAT FAST™ Hybrid connector for singlemode & multimode
- › OpDAT adapters
- › OpDAT REGpro
- › OpDAT wall-mounted distributor
- › OpDAT Consolidation Point



Copper Cabling | Connectors and Jacks

The portfolio with RJ, SPE, USB, M12, coax and FO connectors for cabling systems offers a wide range of connectors and jacks in various performance and protection classes for copper and FO connections.

- › 10/100 MBit, 10 GBit and 25 GBit Ethernet systems
- › Easy assembly without special tools
- › Robust zinc die-cast housing
- › Suitable for PROFINET, EtherNet/IP, EtherCAT, etc., remote powering (PoE, PoE plus and 4PPoE) and HDBaseT, AV over IP, SAT-IP and much more



Patch Panels and Patch Cords

For the distribution of structured cabling, we offer patch panels, module or subracks with matching accessories for copper and FO connections in module or compact design in different performance classes, height units and with various port numbers.

Patch Panels:

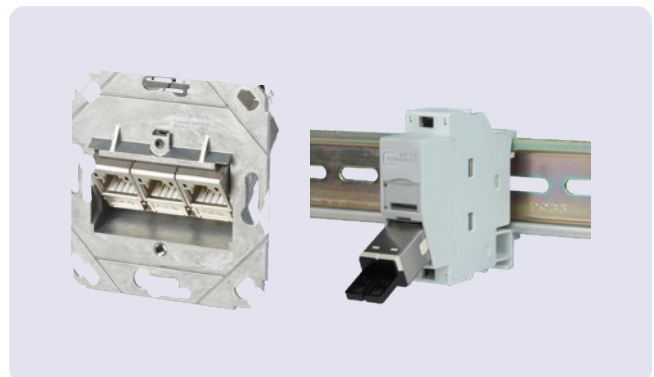
- > For copper and fiber optic connections
- > Modular or compact design
- > For up to 10 GBit Ethernet
- > Remote powering (PoE, PoE Plus, UPoE, and 4PPoE)
- > DCCS Data Center Compact Solutions for up to 48 ports on one height unit

Patch Cords:

- > For 10 to 40 Gbit Ethernet
- > 10 colors, lengths from 0.5 m to 30 m
- > Remote powering (PoE, PoE Plus, and UPoE)

Subscriber Connections | Connection Housings for Copper and Fiber Optic Connectors

- > Wall outlets
- > DIN rail adapters
- > Underfloor systems
- > Surface-mount wall distributors
- > Consolidation Points



Distributed Building Services

Under the topic of Digital Ceiling in the field of network technology, one can to some extent understand it as the digital ceiling. This means the integration of, for example, intelligent PoE LED lighting, sensors, tailor-made WAPs for each workstation and further Ethernet & Power-over-Ethernet applications in the suspended ceiling.

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Basic Components for Distributed Building Services

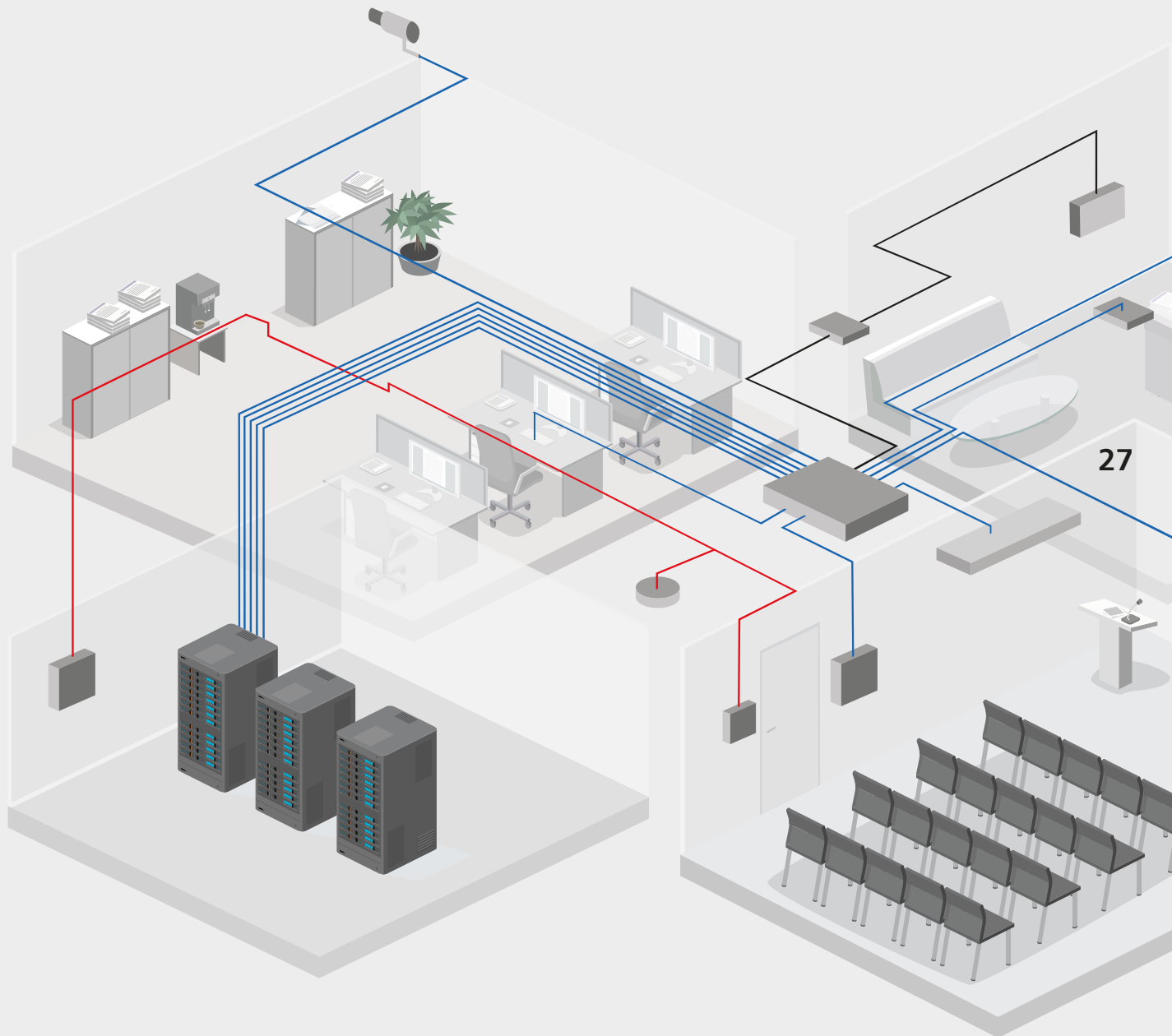
- › Network infrastructure/network cabling
- › Switches with PoE for data exchange and power supply as central interface
- › Network-capable sensors and actuators with IP interface
- › Software for data collection, analysis, evaluation and control

Actuators/Devices for Various Applications

- › Intelligent lighting
- › Air conditioning, ventilation or heating
- › Security systems
- › Access control

Benefits

- › Consolidation of many building management systems/ building automation systems into one
- › Consolidation of different, proprietary cabling solutions for the respective applications/systems into one
- › New intelligent applications with low-voltage supply
- › Increase in energy efficiency
- › Cost savings
- › Low installation and operating costs
- › Simple, fast, variable and easily accessible installation (new or retrofit)
- › Easy ceiling mounting in the low-voltage sector
- › One cabling for data transmission and power supply



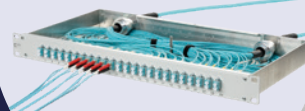
Data Centers

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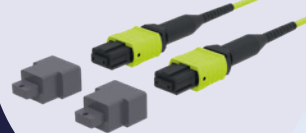
Data centers are the heart of every network. With rapidly increasing demands on performance and capacity, they must reliably process data of very different kinds – from simple text documents to complex engineering drawings, from production control to building management. Accordingly, scalable, high-performance and space-saving cabling solutions are required.

The DCCS (Data Center Compact Solution) product range was developed specifically for these requirements in data centers and consistently aligned to customer requirements. The basis is a 19-inch subrack with 1 height unit, into which pre-assembled copper and FO links are installed modularly and easily. Supplementary subassemblies are available. On just one height unit, up to 48 copper or 48 FO duplex or FO MPO/MTP® connections as well as mixed configurations of both transmission technologies can be realized. The result: high port density in a small space, short installation times, clear cable management and flexible scalability for heterogeneous requirements in the data center.

Distribution
technology
(19 inch)



OpDAT MPO/MTP®
Patch Cord



MTP® is a registered trademark
of US Conec Ltd., USA

RJ45
Patch Cord



25Gmodul
Copper



OpDAT
Patch Cord



OpDAT Trunk Cable
with breakout cable for
DCCS system



DCCS
Subassembly



Solutions for Data Centers

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MPO/MTP® Connections

MPO/MTP® connections are predominantly used in data centers at transmission rates of, for example, 40 to 400 GBit/s. They serve to connect distribution technology (e.g. 19 inch panels) to active components such as servers or switches. METZ CONNECT exclusively uses connectors and adapters from USCONEC, whose modified MPO® variants are known under the trade name MTP®. From the MTP® product family, only connectors with Elite® ferrules are used. These have excellent values regarding insertion loss and return loss.

MTP® is a registered trademark of US Conec Ltd., USA.

MTP®/MPO Cable Assemblies

MTP®/MPO cable assemblies for fast and reliable fiber optic links offer an effective way to achieve high and future-proof transmission rates and guarantee a powerful and fast network. METZ CONNECT has significantly expanded the portfolio with MPO/MTP® connectors: In addition to patch cords, wire fanouts, trunk cables and cable fanouts with up to 96 fibers are now also manufactured. Both various cable types such as universal or breakout cables are available as well as different structural variants, e.g. with pulling aids or mounting sets.

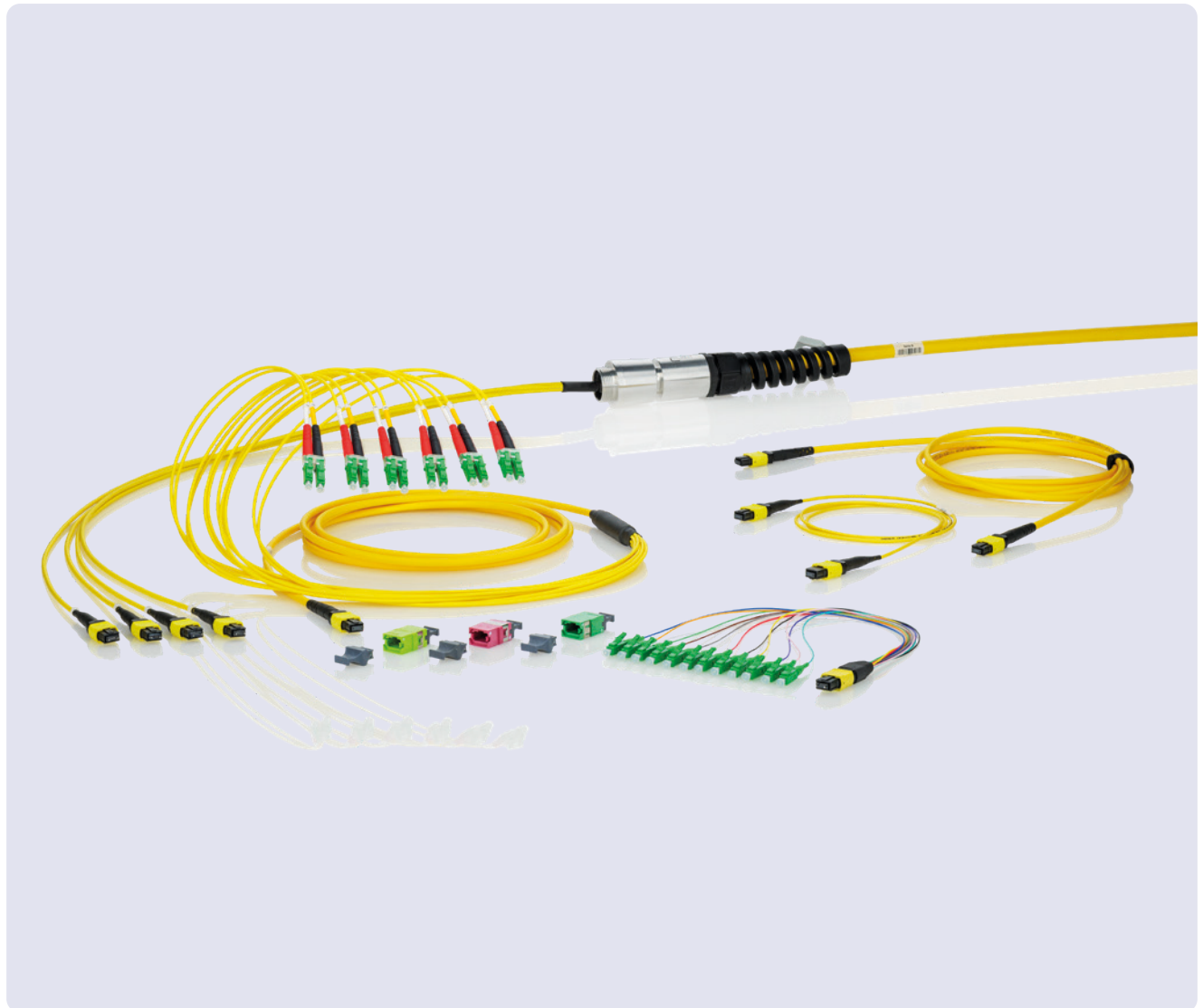
Benefits

- › Fiber optic manufacturing in Blumberg
- › Highest quality level
- › Customer-specific solutions, short-term deliveries
- › Every product is measured and documented 100% over two wavelengths
- › All materials undergo a rigorous internal quality approval process.
- › All cable types contain bend-insensitive fibers
- › Traceability thanks to serial numbers and barcodes

DCCS Pre-assembled Compact Solutions

The DCCS (Data Center Compact Solution) product range was developed specifically for data centers and their requirements and extensively adapted to customer requirements in this area. The DCCS system is based on a 19-inch subrack with one height unit, in which pre-assembled copper and FO links (subassemblies connected with cables) can be installed modularly and easily. In

addition, various supplementary subassemblies are available. On just one height unit, up to 48 copper or 48 FO duplex or FO MPO/ MTP® connections as well as combinations of both transmission technologies can be accommodated.



25Gmodul Copper

The modules impress with their extremely high system capability: they enable diverse use in a wide variety of applications. The 25G system is consistent and compatible – a prerequisite for transparent, efficient and individual use of future-oriented network and

cabling systems. Install the network infrastructure for tomorrow today. The minimal additional monetary expenditure offers you 2.5 times the transmission speed compared to a 10Gbit system.



Building Automation

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In order to operate infrastructure systems in large and small buildings safely and cost-effectively, it is essential that the most important operational functions such as plant monitoring, air conditioning, ventilation and lighting run automatically. However, this also increases the demands on the functions of the building installation. This can usually only be implemented with great effort using conventional technology. Building automation is therefore increasingly relying on networked serial and IP-based bus systems (BACnet, Modbus,...) that carry out the transmission of information between sensors and actuators, switches and higher-level control systems.

Bus systems offer various advantages for this:

- › Simpler planning and installation of building functions
- › High flexibility in building use, as the functions can be configured freely and can therefore be re-set and adjusted at any time as required

For these functions, METZ CONNECT already offers pre-built software applications that save the system integrator time and money.

Ventilation



Access control



Fire protection



Lighting



Heating



Emergency lighting



Shade



Leak and level monitoring



Energy Controlling



I/O Components

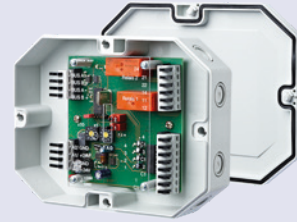
Automation in buildings, plants
and machines

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Fire Protection/Fire Detection Technology

Fire protection or fire detection or smoke extraction technology is one of the most important regulations in building automation. One component in this regulatory framework is, for example, fire dampers. For the detection of the dampers, digital inputs are required, for example. At the same time, the dampers are to be controlled by the actuators by means of digital outputs. For this purpose, METZ CONNECT offers a combined digital mixed module XX-DIO4/2-IP, which contains both functionalities.



XX-DIO4/2-IP

Climate

In order to carry out switching tasks in automated plants, e.g. to switch an air conditioning system, METZ CONNECT offers a digital relay output module XX-(F)-DO4 with 4 changeover contacts. Four switches on the front of the device enable direct manual intervention for each switching task.



XX-F-DO4

Lighting

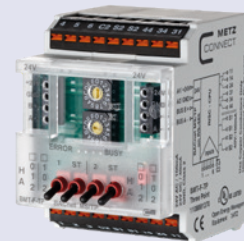
Since there is a high switch-on load in most lighting circuits, a digital mixed module XX-(F)-DIO4/2 was specifically developed to control these lighting circuits directly with a high-performance relay. At the same time, the XX-(F)-DIO4/2 has digital inputs to directly connect the light switches for manual operation. This ensures plant availability should the controller be unavailable.



XX-F-DIO4/2

Sun Protection

Roller shutters and blinds can be controlled automatically as required. Thanks to the appropriate protective devices for controlling blind motors, the XX-(F)-TP three-point module is the suitable device for controlling such drives.



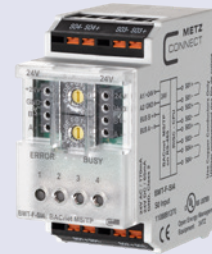
XX-F-TP

XX = BACnet, Modbus or LON

F = Spring clamp technology

Energy Controlling

Consumption recording of, for example, electricity, gas, heat and water meters forms the basis of energy transparency. In order to record this consumption data, a so-called pulse counter module XX-(F)-SI4 was specifically developed. The module has four channels with a standardized S0 pulse interface, to which it is possible to connect four meters of different media.



XX-F-SI4

Burglary Prevention and Access Control

In the context of burglary protection or access control, the following functions are important: display of open windows and doors, warning messages in case of malfunctions, burglary or emergency calls. In order to obtain information about the status of windows or doors in such automated regulatory systems, digital inputs are required. For this purpose, METZ CONNECT offers a 10-fold digital input module XX-(F)-DI10 to record the status of windows and doors using potential-free window or door contacts.



XX-F-DI10

Heating/Ventilation/Climate

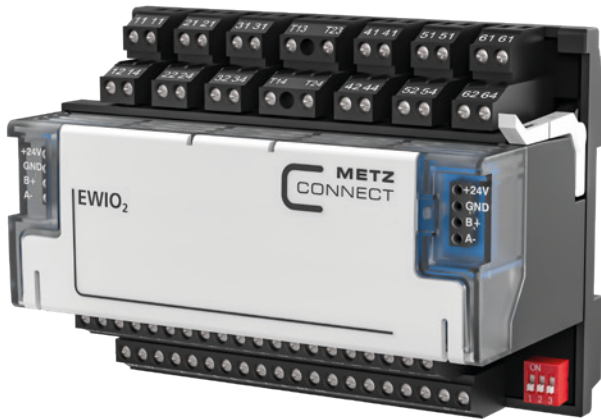
Various I/Os are required for energy-efficient temperature control and ideal heat distribution. Among other things, analog inputs are required for connecting the temperature sensors available on the market to record temperatures. For this purpose, METZ CONNECT has specifically developed a universally programmable analog input module XX-(F)-AI8 with 8 available inputs. Various temperature sensors can be connected simultaneously to these 8 inputs.



XX-F-AI8



Energy Controlling



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The EWIO₂-M is a powerful data logger for energy and consumption recording as well as data monitoring in buildings, as well as in industrial plants and systems. The multi-protocol capability of the smart metering gateway is enabled by the many connections and interfaces and supports you in your tasks in energy management systems according to DIN EN ISO 50001 to increase energy efficiency through the integration of MSR and HVAC technology into the building management system. With the EWIO₂-M, you combine the functions of energy monitoring, building and industrial automation in one device.

The parameterization, configuration and commissioning of the system is carried out via an intuitively operated web interface with a platform-independent web browser. Various meters, such as electricity, water, gas, heat or other media, can be connected and read at the M-Bus and Modbus RTU interface. The integrated digital and analog inputs and outputs of the EWIO₂-M are designed to connect sensors and actuators for various tasks in building or industrial automation.



- > Simple, fast cabling with bridge plug
- > Connection of extension/function modules



- > Pushbutton and LEDs for manual operation and display



- > Multi-I/O with 24 digital and analog inputs and outputs



- > Compact design for installation in a distribution board with 45 mm front height
- > Minimum space requirement in the switch cabinet 125 mm width (7 HP)



- > Installation and maintenance-friendly with hardware management, electronics – detachable from termination unit



- > M-BUS interface with integrated level converter for 80 M-Bus loads
- > Reading of M-Bus meters (parameterizable read-out interval)



- > 1 x Modbus RTU interface for 32 participants



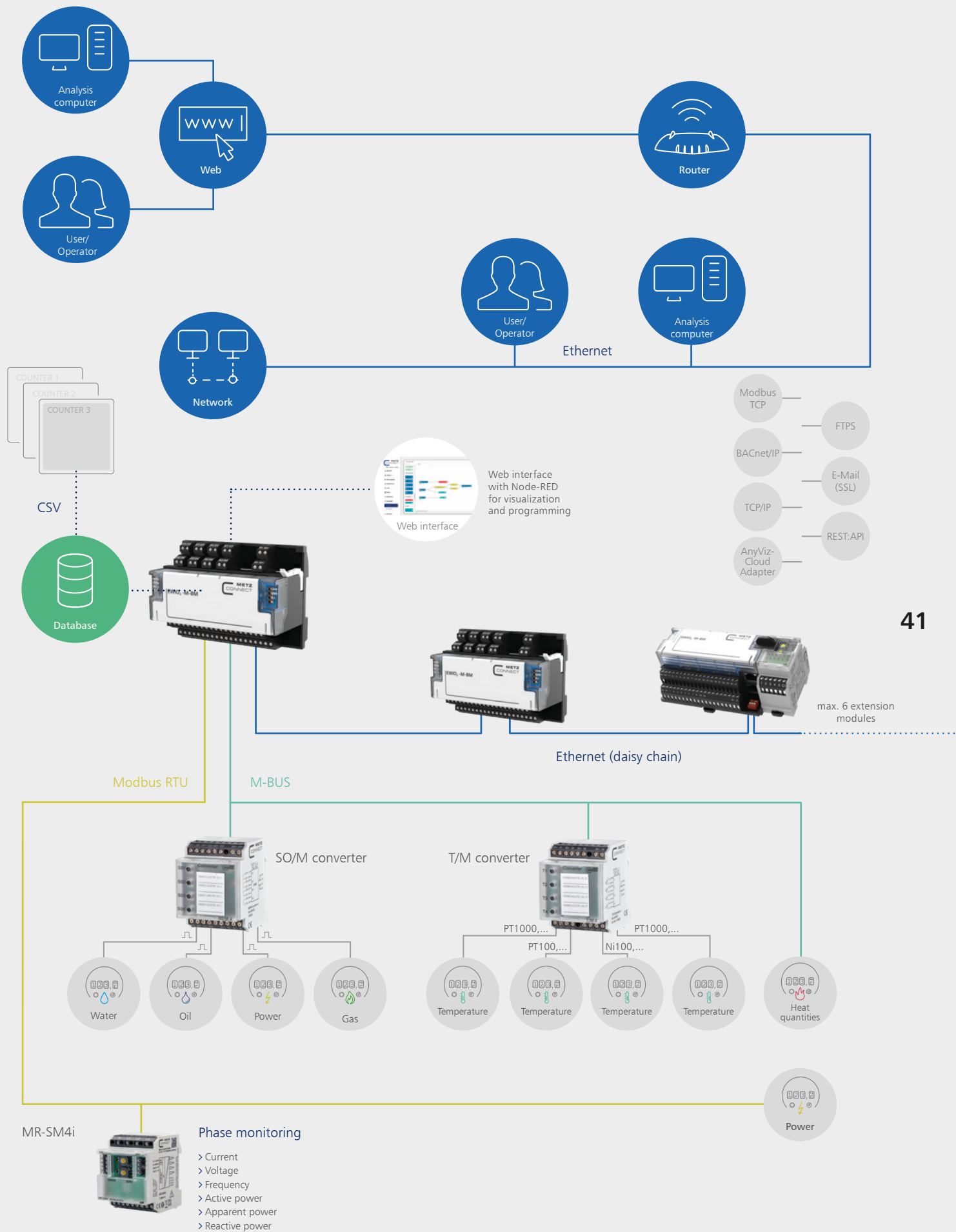
- > Controller with ARM Cortex-A7 dual core processor 1GHz, 512 MB RAM and 4 GB Flash



- > 2-port Ethernet switch with Daisy Chain function



- > Integrated graphical programming/visualization tool



System Components for Switch Cabinet Applications

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Measurement and Monitoring Relays

The METZ CONNECT monitoring relays serve to protect people and machines and control electrical processes depending on electrical or physical variables.

- > Current monitors for universal use
- > Phase monitors to protect against destruction/damage to plant components
- > Phase sequence relays for monitoring the rotating field
- > Asymmetry relays for reliable detection of phase failure
- > Multifunctional three-phase monitors
- > Level relays for fill level monitoring

Interface Modules

The METZ CONNECT interface modules form the separation between the logic level and the load level in control and automation technology.

- > Universally applicable coupling modules
- > Sensor or actuator interface modules as optocouplers, potential distributors, diode modules, signaling modules, threshold switches, analog encoders, analog-to-digital converters and as potential isolators
- > High-performance, compact, pluggable 14-pin industrial relays



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Time Relays

Time relays enable time-controlled switching of loads and processes. They realize defined delays, cycle functions and time sequences in control and automation technology. The product range offers time relays with single and multiple functions as well as adjustable time ranges. METZ CONNECT time relays include functions such as switch-on delay, switch-on pulse, drop-out delay, switch-off pulse, as well as flashing and cycle functions.



Energy Controlling

Linux-based, powerful data loggers are used for energy and consumption monitoring as well as data monitoring in buildings, as well as in industrial plants and systems. The multi-protocol capability of the data logger is enabled by the many connections and interfaces (TCP/IP, BACnet/IP, Modbus TCP, Modbus RTU, M-Bus, S0 pulses, digital and analog inputs/outputs) and supports you, for example, in your tasks in energy management systems according to DIN EN ISO 50001 to increase energy efficiency through the integration of MSR and HVAC technology into the building management system. For configuration and visualization, an easy-to-use web server and the Node-RED software platform are integrated.





Routers/Gateways

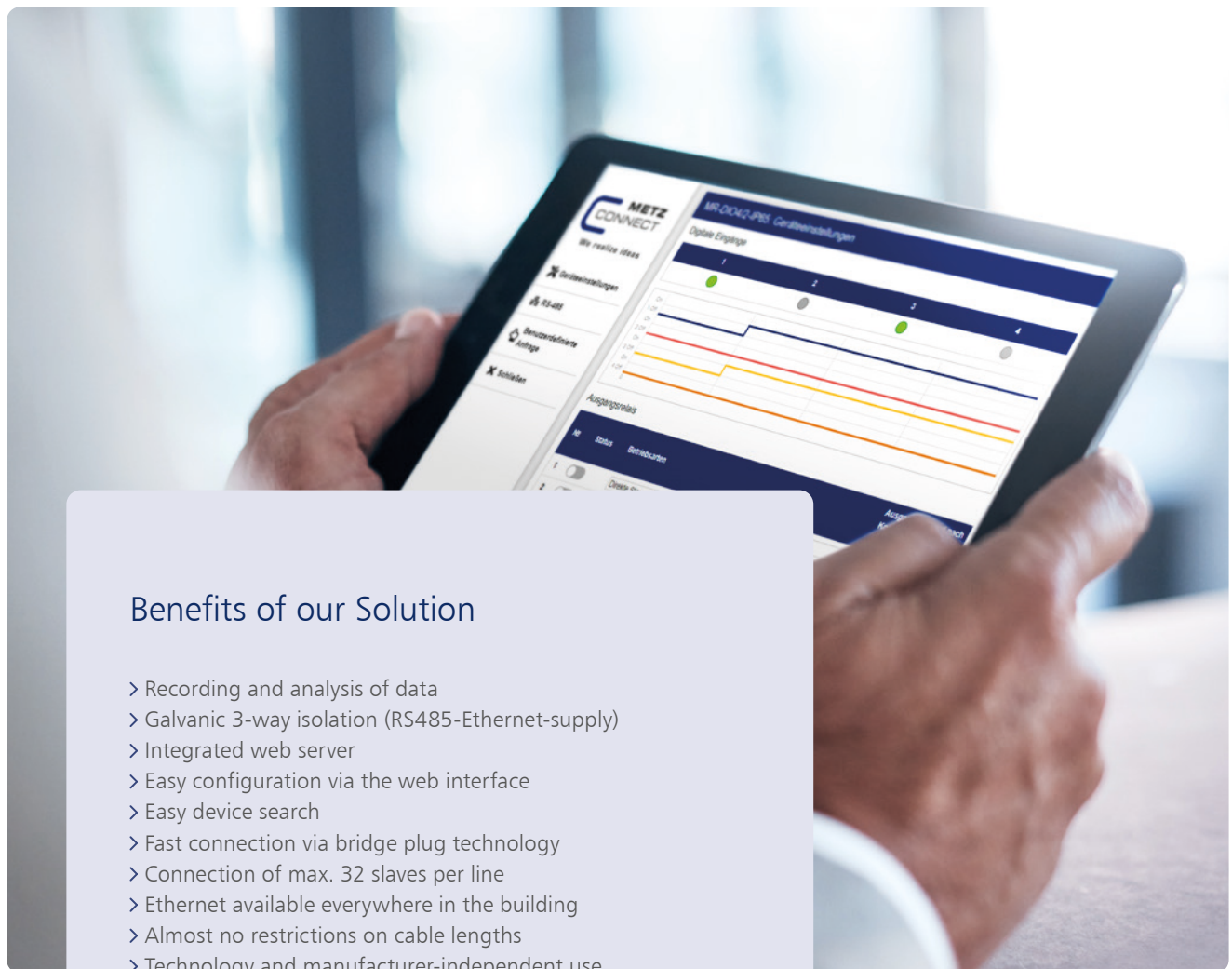
for the network connection of fieldbus components

In many building automation projects, customers require a consistent connection of all automation components into structured network cabling within the building.

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Benefits of our Solution

- › Recording and analysis of data
- › Galvanic 3-way isolation (RS485-Ethernet-supply)
- › Integrated web server
- › Easy configuration via the web interface
- › Easy device search
- › Fast connection via bridge plug technology
- › Connection of max. 32 slaves per line
- › Ethernet available everywhere in the building
- › Almost no restrictions on cable lengths
- › Technology and manufacturer-independent use



Modbus Gateway MR-GW

Fieldbus components, such as temperature sensors or measuring devices, generally have a Modbus RTU interface, which is integrated into the automation level by means of a Modbus TCP controller. In many application cases, the use of a controller is oversized, in addition to complex programming and expensive hardware. The optimal solution is the use of a Modbus gateway. With its function as a protocol converter, the Modbus gateway enables easy integration of Modbus RTU slaves into a Modbus TCP network. The METZ CONNECT Modbus Gateway MR-GW helps with the integration of Modbus RTU devices into a Modbus TCP network and offers a very simple and cost-effective communication option for Modbus TCP clients with one or more Modbus RTU slaves.



BACnet/IP and BACnet/SC Router

The METZ CONNECT BACnet Router BMT-(F)-RTR connects BACnet MS/TP with BACnet/IP. The BACnet/SC Router BMT-(F)-RTR/SC ensures encrypted data in critical infrastructures – BACnet/SC is the standard for secure BACnet communication. With an existing Primary Hub that manages the BACnet/SC router, it can be used in existing IT network structures. This allows existing IT and internet infrastructure to be used. An integrated web server is used for configuration. The BACnet/SC Router BMT-(F)-RTR/SC scores with high flexibility.

BACnet MS/TP, BACnet/IP and BACnet/SC can be connected and routed simultaneously – future-proof and protecting your investment. Secure your building automation with METZ CONNECT BACnet Routers: The BMT-(F)-RTR/SC series seamlessly connects MS/TP devices with BACnet/IP and BACnet/SC and protects sensitive data. Discover the innovation that protects against hacker attacks and prepares for future developments. METZ CONNECT – your partner for secure building automation.



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