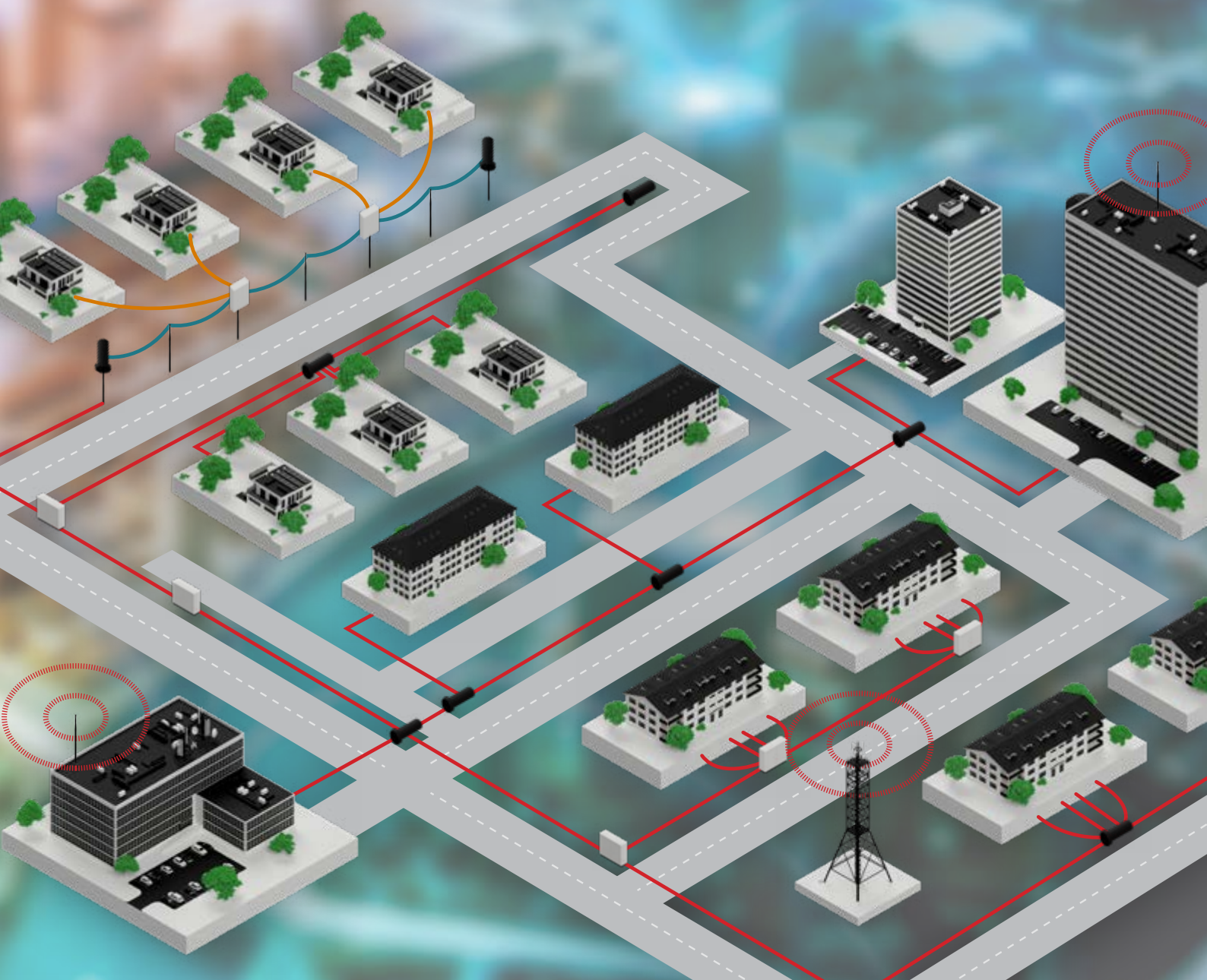


# FTTX

## Applications & Product Portfolio





## ***Demand for bandwidth on the Internet doubles every second year.***

Users enjoy new services with increasing frequency for the sheer convenience of it all. Such services range from IPTV or video on demand to online games or Internet storage of personal data. Intense use of cloud applications and software as a service are daily routines in offices and in our industries because they simplify processes and increase efficiency.

The media, trade and financial sectors send millions of data records around the globe every second to serve the markets. Consequently, fast network connections are meanwhile among the most relevant basic needs of global societies. Decision making on where to open your business or to locate a new company headquarter or corporate offices depends on the availability of data center capacity, data highways and fiber optical network infrastructure.

The currently introduced services in so called smart cities in which traffic, public transport, energy, waste management, wireless communication, connectivity and information exchange in general are continuously controlled and managed, come along with new applications such as e-health, e-learning, e-government. This trend developing towards a Gigabit Society in fast growing urban environments requires even more powerful fiber optical networks for highly efficient and reliable signal transmission.



030.7188

## ***What can network operators do to satisfy this bandwidth demand?***



030.7185

Communication networks have brought about permanent changes to our world. What remains constant, though, is our desire for the best, most reliable way to exchange information with each other. How to guarantee a reliable infrastructure capable of meeting continuously changing future needs?

This is an area where R&M is making a key contribution by offering solutions around most advanced cabling technology for data and communication networks. As an independent Swiss family-owned company, we stand for quality and precision, efficiency and reliability, innovation and sustainability and for long-term collaboration in close partnership with our customers.

R&M is an internationally recognized global manufacturer and supplier of passive distribution and connection technology for all levels of telecom, broadband and data networks. Our Swiss mindset of always providing top quality has implications to your network infrastructure: 100% long-term operational reliability, lowest latency and zero loss of data, simple installation and fast maintenance plus low total cost of ownership as your systems based on R&M technology keep their value year after year. R&M system solutions make a difference due to modular design, cost-effective and fast installation technology, extensive functionality and high level of adaptability.

Public and private operators of data and communication networks around the world have already chosen R&M's expertise. Their trust is based on our sophisticated connectivity solutions and the unceasing support we provide to our customers.

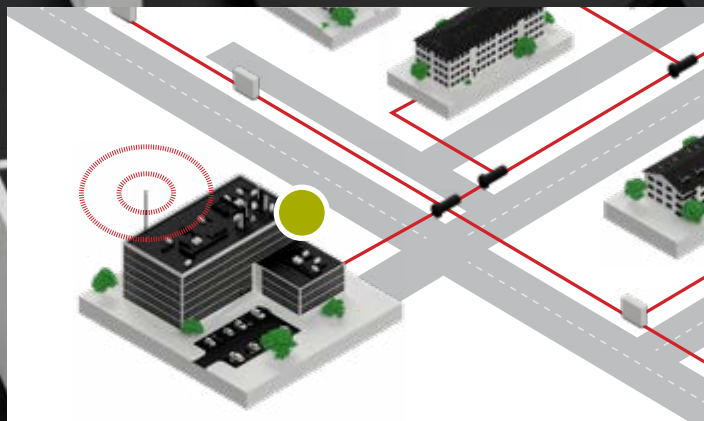
The way R&M conducts business is based on the founding values of this family-owned company. With high sense of responsibility and clear focus on customers' needs, R&M takes development of its business, respect for the environment and technological advance into equal consideration.

Our customers expect cables, connectivity systems and customized solutions they can fully rely on for decades. To continuously improve these systems, R&M operates an international innovation center with significant investments in research and development every year. Beyond our emphasis on quality, durability, convenience and precision R&M always invests into farsighted system design which helps customer installations to maintain their value over many years. They can be adapted or extended easily the way their businesses grow. Intelligent features in R&M's portfolio support future applications and can be flexibly expanded or adapted to new market conditions. For network operators this means they remain flexible and can always rely on their investment.



# FTTX – Central Office

## Out of the Box



### Central Office

Customer specific solutions for effective assembly, future-proof expansion and effective operation of optical or copper connectivity based distribution frames. Modular system elements complemented by professional planning consultancy.



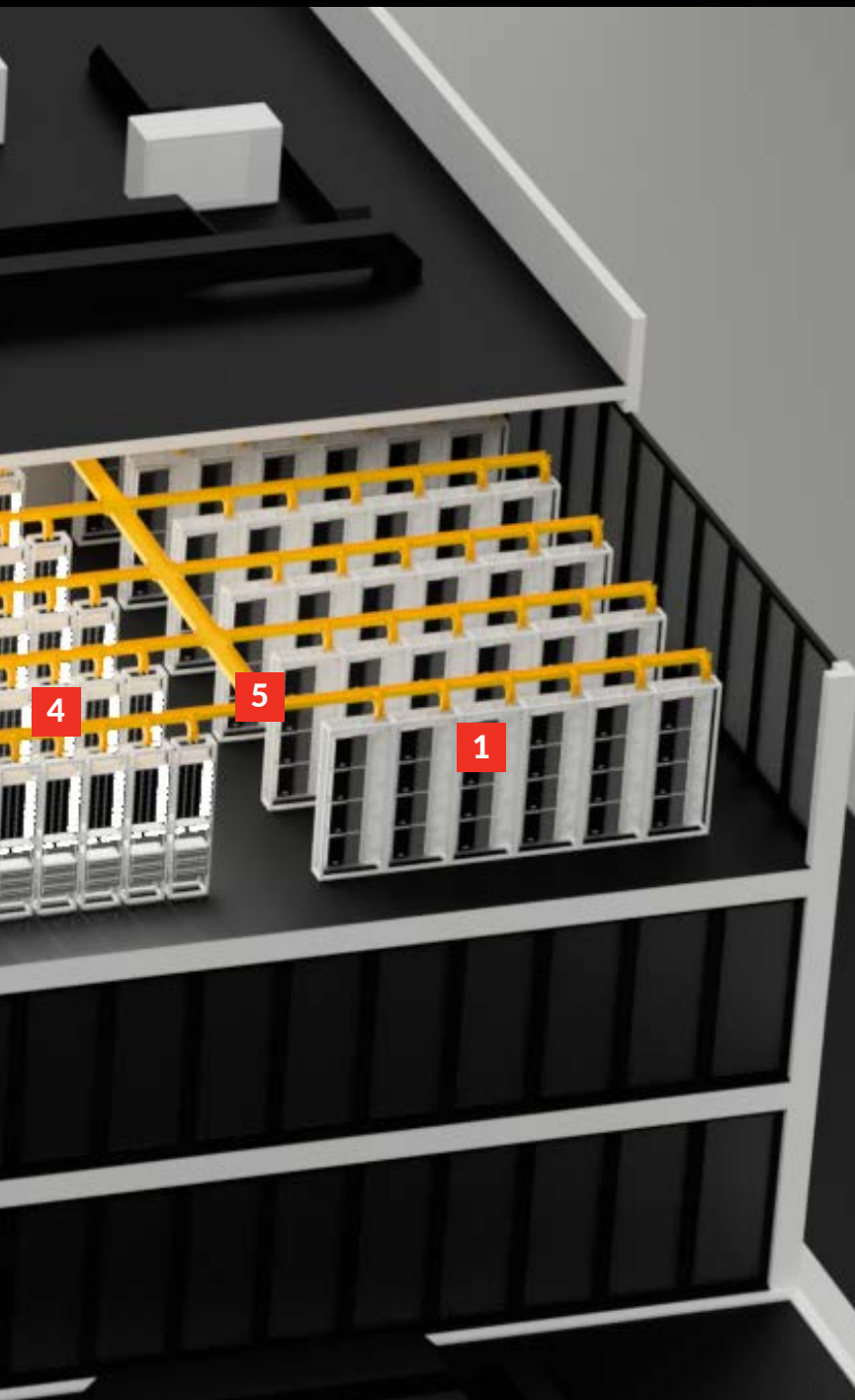
Optical Distribution Frame  
PRIME ODF



Optical Distribution Frame  
R&Mfoxs



Panels & Racks



3

090.6661



Spliceable & Pre-terminated passive Components

4

090.5622



Pre-terminated Cabling Systems & Patch Cords

5

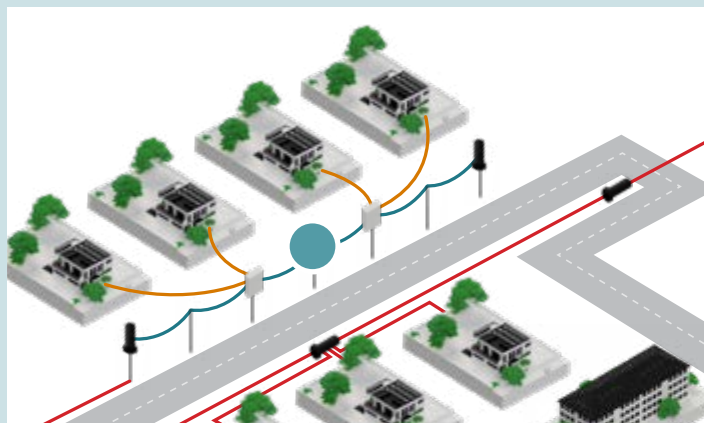
090.5389



Raceway

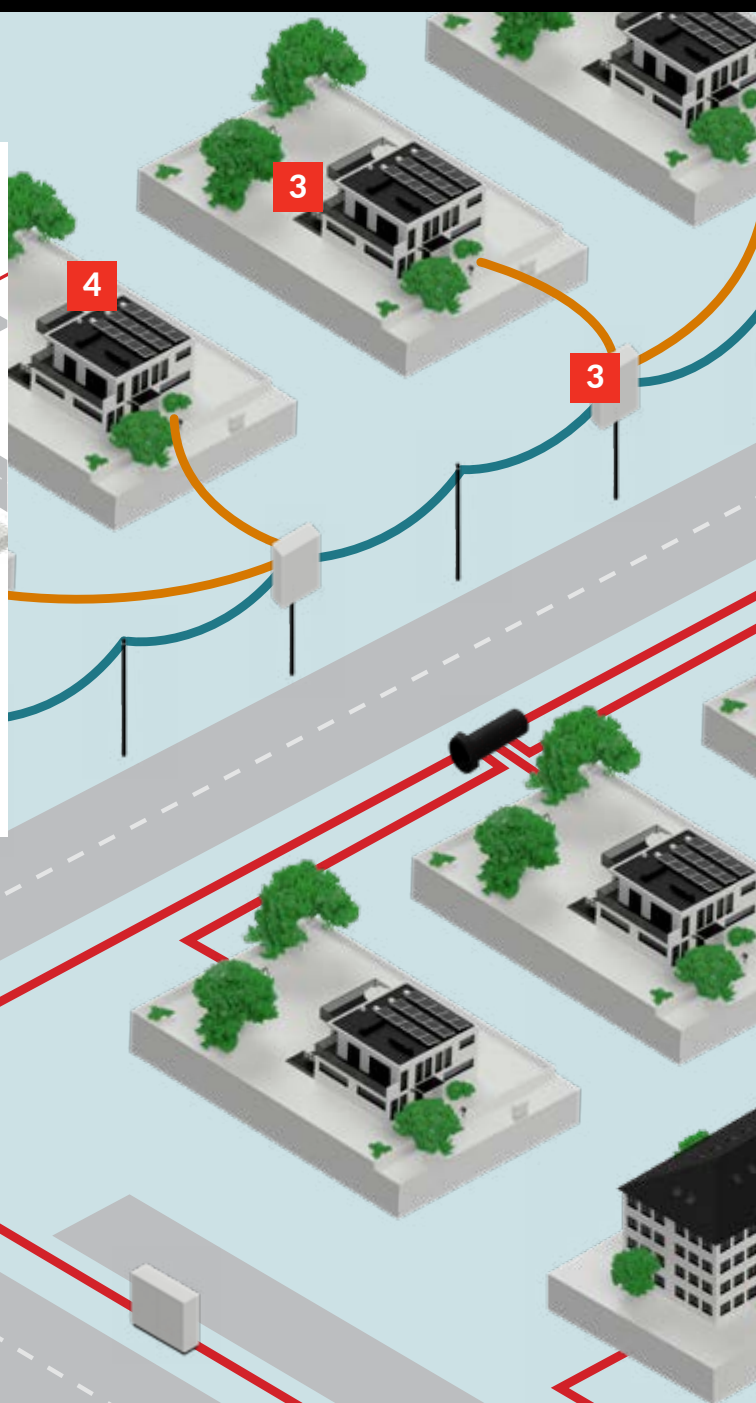
# FTTX – Outside Plant

## For the toughest Requirements



### Outside Plant

Complete portfolio of robust street cabins, underground closures and distribution boxes offering latest technology in fiber connectivity and management. The different product platforms support all common cable types and fiber optical network topologies.



Cross Connection Cabinets

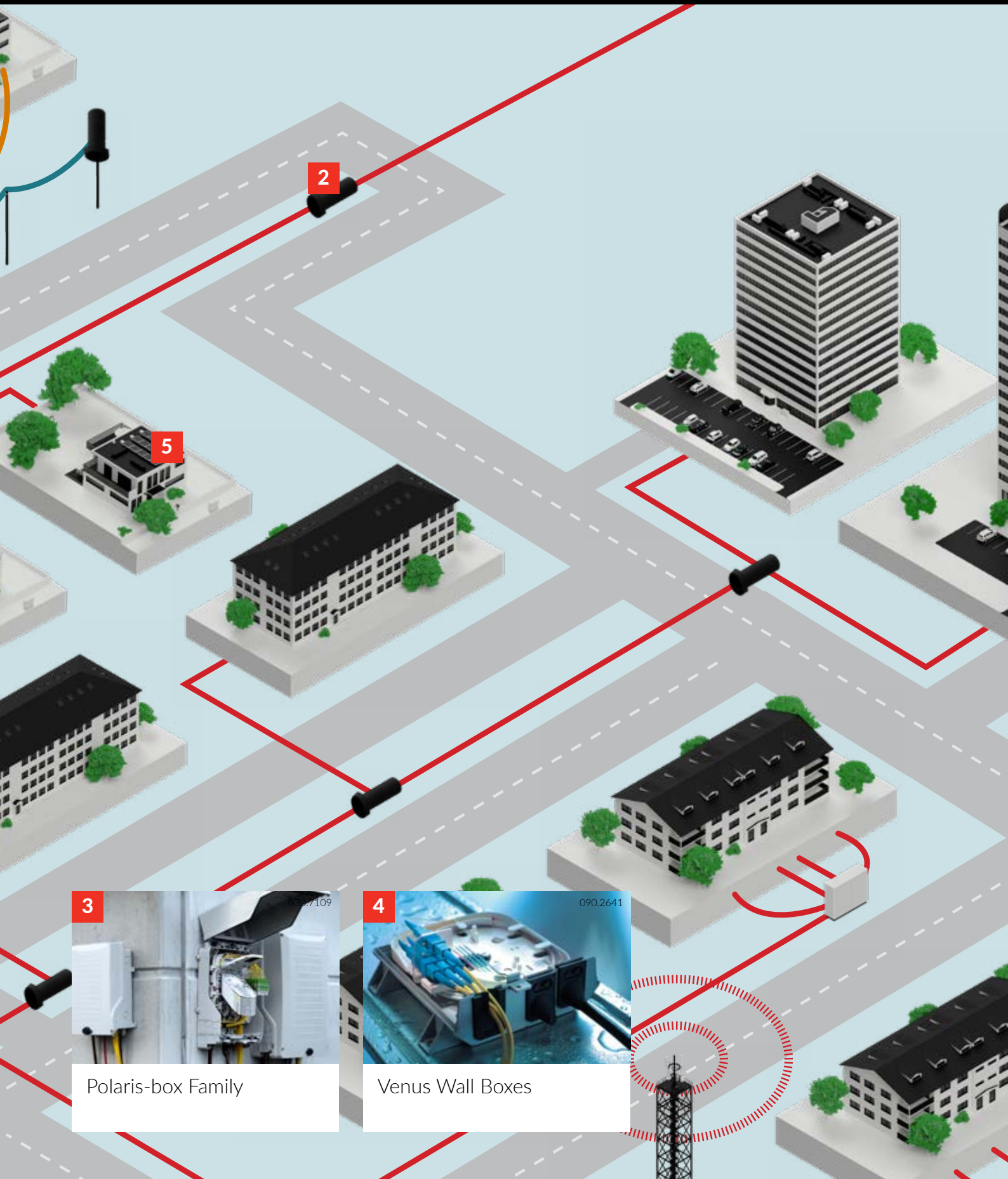


Gel Sealed  
SYNO Dome Closure



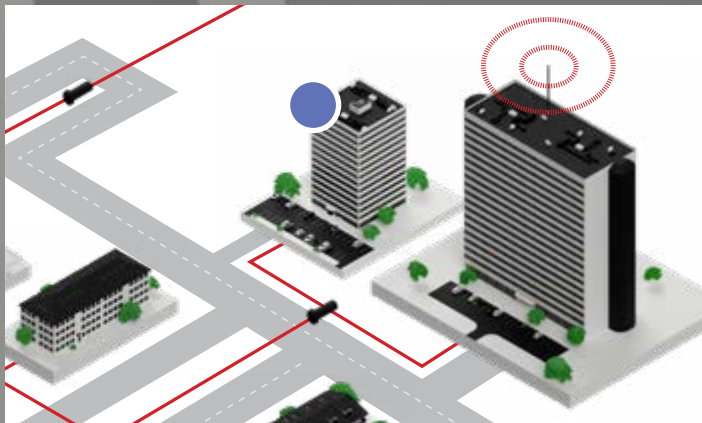
Heat Shrink  
SCM Dome Closure





# FTTX – Customer Premises

## Connection to High-Rises and Residential Complexes



### Customer Premises, Buildings and Cell Sites

Efficient solutions for supplying different buildings and urban infrastructure with fiber optic connectivity. Building entry points inside and outside of the building, realized with Polaris-box family a compact, flexible and modular concept for fiber termination. Complemented by field deployable connectors as a modern alternative to fusion splicing. Fiber optic connection in no time.







1a



Polaris-box Family

1b



Venus Wall Boxes

2a



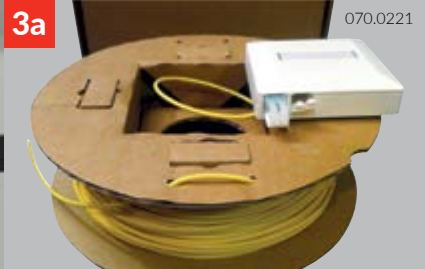
ODF Wall Mount Boxes

2b



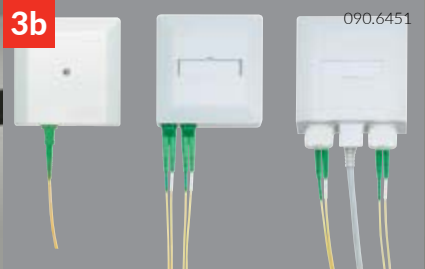
Optical Distribution Frame  
R&Mfoxs

3a



Pre-terminated plug'n'play  
Installation Kits

3b



Optical Termination  
Outlets

3c



Hybrid Outlets  
(FO & RJ45)

# FTTX – Customer Premises

## Cabling for Residential Buildings



Customer Premises, Single Dwelling Unit (SDU)



Polaris-box Family

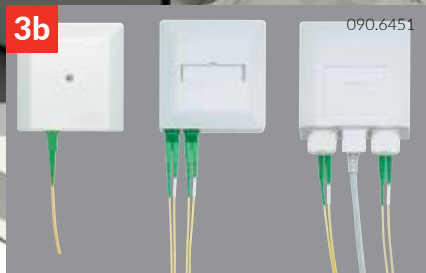


Venus Wall Boxes





Multimedia Outlets



Optical Termination Outlets



Pre-terminated plug'n'play Installation Kits



Field Termination Connectors

# Designing access networks individually

## Customized System Solutions



As a total supplier with an integrated system approach for fiber optic and copper cabling, R&M works side-by-side with operators of public and private networks. Our joint task is to supply customers with modern broadband infrastructures.

For this R&M provides systems using building-blocks making design and installation intuitive and easy. The distribution and connection technology is modularly designed, and all elements match. This makes R&M solutions extremely flexible in meeting the specific requirements and conditions of the different market segments they serve and the huge variety of customer sites - indoors as well as outdoors

R&M offers advanced, leading-edge solutions for demanding FTTX topologies of every type. The system merges all the factors that network operators need for efficient rollout, reliable operation and competitive service.

Based on a flexible and modular product platform different cabling and connectivity solutions can be put together to suit very specific requirements and a wide range of applications. These solutions can handle all cabling and connectivity tasks around typical FTTX applications from the central office, through the outside plant area all the way to any form of customer premises. The distribution, splicing, splitting and connecting requirements or challenges can be easily matched covering all typical network topologies and fiber optical cable types or routings.





# Complete Solution From One Source

## Secure, Modular, Customized

### Service & Training

R&M customers always know what they can expect from us. They consistently receive expert answers, fast decisions and professional support. Qualified experts, available in all sales regions, are responsive and take initiative in actively supporting their customers. Seamless service also includes the provision of prefabricated units and always factory tested components or assemblies.

Consultancy during the planning phase of the network along with product evaluations are professional services you can expect from R&M. Whenever required, we develop custom-tailored solutions based on our portfolio with our application engineering team.

The R&M Academy offers programs for partners and customers who would like to expand their knowledge and expertise in the installation, testing and maintenance of networks. With training courses and certification programs, R&M promotes the long-term quality of installations. Certified partners receive even long-term guarantees and exclusive support services. R&M supports them over the entire life cycle of their installations.

### Professional Partnership

With your decision to work with R&M, you choose a strategic partner who offers far more than innovative cabling solutions. By using R&M products and custom-made solutions, your networks are flexible and equipped for the future with our consistently modular approach and scalability of our portfolio – you have plenty of options. Your network can be adapted at any time to new market developments required changing site conditions or adaptations.

R&M is always considering innovative and reliable solutions and offering professional training and on-site instruction. So nearly error-free handling and high operational reliability can be achieved together with your teams.

R&M's end-to-end compatible systems simplify planning, assembly and operation and contribute so to efficient and cost-effective layer1 infrastructure installations. Required investments are reduced and necessary to meet specific requirements having at the same time intelligent scalability features included to be prepared for future network rollout steps. So total cost of ownership is fully justifiable.



### The Number 1 for Layer 1

The demand for online services continues to grow steadily and along with it the challenges for fiber optic networks. With R&M as your partner and solution provider for FTTX networks you mark out a sure path into a competitive future.

R&M offers you modular cabling and connectivity systems designed around the very latest technology. It is just as simple as it is secure to put into service and saves you installation time.

R&M's FTTX solution portfolio is suited for both point-to-point and point-to-multipoint schemes and is also ready for WDM-PON, thus providing the highest possible level of availability.

R&M is your partner for rugged, integrated and modular Layer 1 FTTX connectivity systems. We support and consult you in the configuration or migration of your network with innovative and customizable solutions around management, distribution and termination of optical fiber at central office, outside plant in the field and at customer premises.

# R&M generates added value

## Connectivity that matters

Cabling solutions with added value. That is what R&M (Reichle & De-Massari AG) stands for. This is the added value customers experience during the effortless installation of R&M cables and over several generations of use without interruption.

Since 1964, R&M has been developing and producing exclusively high-quality and future-proof connecting and distributive technology. As an independent Swiss family company, R&M is one of the world's leading suppliers of innovative cabling systems for data and communication networks.

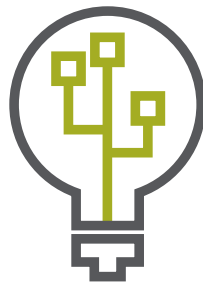
Thanks to the innovative strength of the company, R&M now covers the entire range of copper-based and fiber optic connectivity. R&M systems can be used in telecom networks, Fiber to the Home projects, data centers and local data networks of utilities, municipalities, hospitals, or enterprise and campus network applications. Software for network management rounds out the portfolio.

The cabling solutions are tailored precisely to user requirements. Clients who opt for R&M invest in sustainably reliable, scalable and migration-capable infrastructures. The result: Networks with guaranteed, measurably superior performance.



### **Quality**

Every bit reaches its goal.



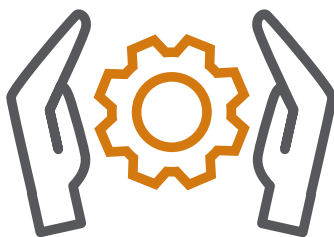
### **Innovation**

Excellent and effortless wiring.



### **Consultancy**

International project expertise and reliable advice.



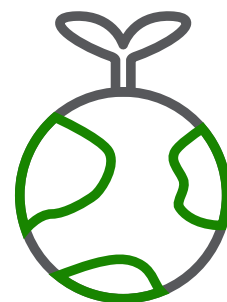
### **Protection of investment**

Install just once and enjoy permanent use.



### **Customer focus**

Responsible experts on site.



### **Sustainability**

People, nature and the market in harmony.



# R&M forms partnerships

## Support that matters

Project success is determined by the network of the project partners. Best data and communication networks are the result of good collaboration.

R&M offers professional technical consultancy for system integrators, planning engineers and installers at the early stage of a infrastructure project. The subsequent support ranges from the design through evaluation, configuration, customizing, logistics and installation training through to the actual commissioning of the network.

The global R&M network comprises proprietary sales offices, production plants and warehouses as well as certified distributors and partners. R&M products are available locally to partners and customers in more than 100 countries.



### **Lead: R&M makes partners insiders**

In practice-oriented workshops planners, distributors, project managers and installers gain insider knowledge about future technologies, trends and standards and have the opportunity to exchange experiences with R&M experts.



### **Success: Meaningful case study publications**

R&M continuously documents reference projects in meaningful reports. The case studies developed together with partners and customers provide valuable insights into network technology.

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