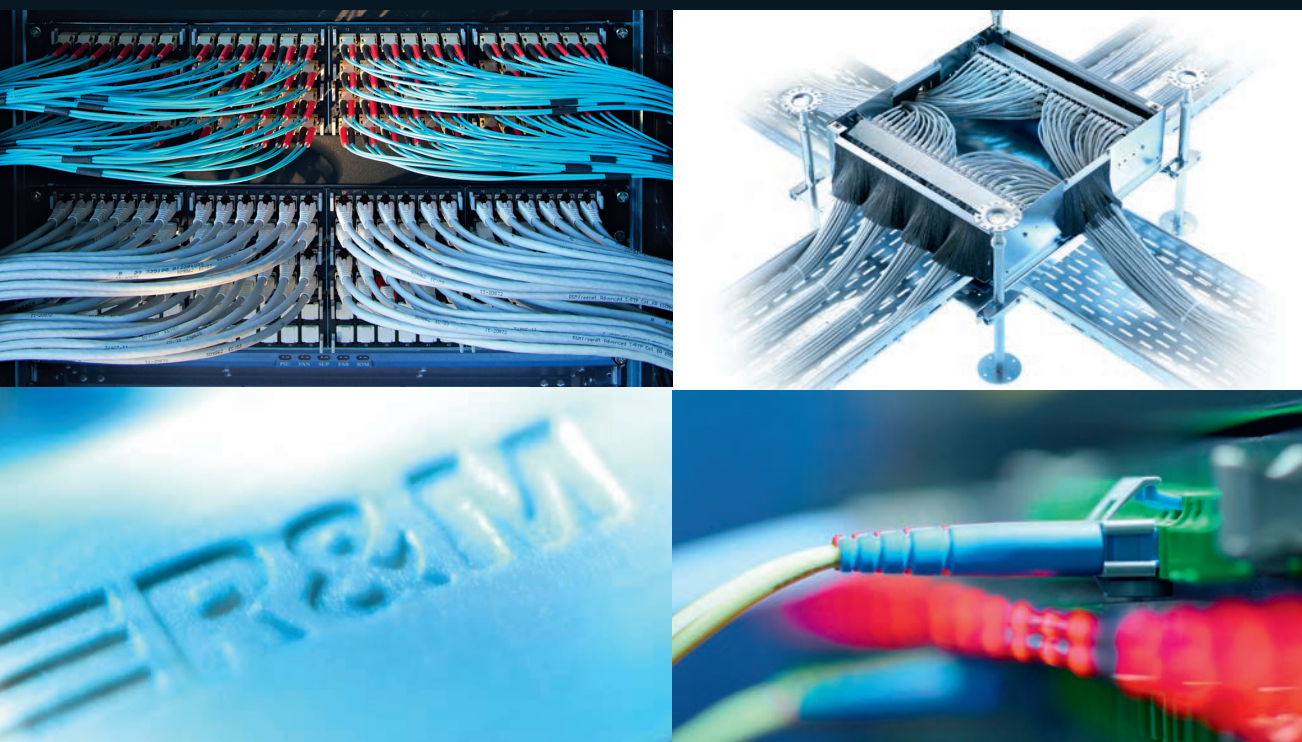


# Product Catalogue Middle East, Turkey & Africa



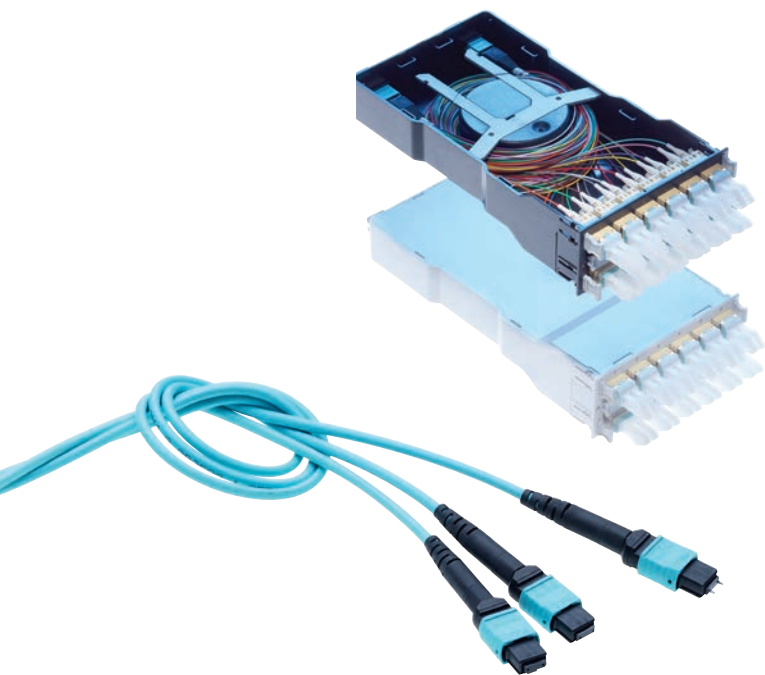
## PASSIVE CABLING SOLUTIONS

### Data Center & Office Cabling



Convincing cabling solutions

The HD MTP / MPO System:  
The easy way to 10, 40 & 100 Gigabit.



Flexible, Safety and Consistency

The number of network ports in data centers is on the increase. The cabling has to be greatly densified to ensure that it can be accommodated. And that entails major challenges for FO infrastructures.

The HD MTP, a new modular cabling system lets data centers reach this goal faster. This multi-fiber solution sets standards for port density and efficient use of space, for flexibility and safety as well as for convenient planning and installation. The HD MPO Module is the core product. It is a forward looking connectivity platform that ingeniously simplifies upgrades and migrations.

Efficient use of space

- High bandwidth in the tinniest of spaces
- Easy migration to 40/100 GbE
- Clever polarity method S
- Modular scalable system

R&MinteliPhy:  
Intelligent Infrastructure Management

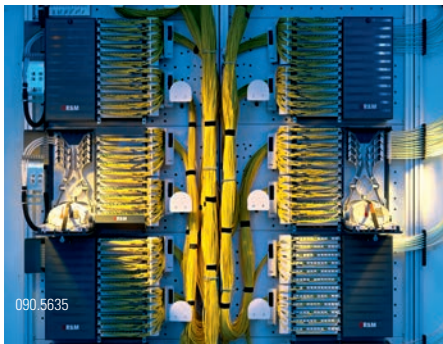
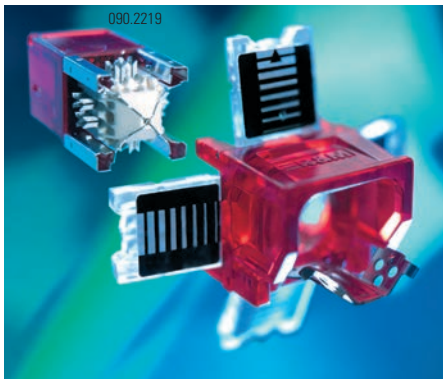


Efficiency, Security and Profitability

R&MinteliPhy opens up a new era for network managers. Now, they can manage their physical infrastructure intelligently and fully automatic. Neither special cables nor new patch panels are needed. Note pads are things of the past, as are hard-to-manage tables. R&MinteliPhy, data centers immediately improve the capacity utilization, profitability and availability. IT managers gain control over all ports and more. This is because R&MinteliPhy helps with analyses and documentation, with the introduction of standardized processes and with all typical management tasks associated with passive infrastructure.

AIM solution can be retrofitted

R&MinteliPhy Monitor and R&MinteliPhy Manage are two pillars of the AIM solution from R&M (AIM = Automated Infrastructure Management). R&MinteliPhy Monitor consists of a small number of components that can be retrofitted: RFID tags for patch cord connectors, Sensorbars for patch panels and Analyzers for the network cabinets. R&MinteliPhy Manage is the client-server solution with a central database installed on a Server in the LAN or available as a cloud-based service with numerous automating functions, routing and planning tools and extensive component libraries.



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# R&M Headquarters



R&M Headquarters adopts a green approach.

As a leading Swiss company, R&M honors its obligation towards the environment. In keeping with its basic corporate principles, R&M is committed to its corporate social responsibility initiatives and the conservation of the scarce resources of the planet in a sustainable manner.

R&M considers that it's essential to employ manufacturing processes that have minimal impact on the environment, minimize the amount of waste produced, recycle materials and reduce energy consumption. For production, the organization uses environmentally compatible materials and conforms to international environmental directives such as the Restriction of Hazardous Substances (RoHS) directive, the Waste Electrical and Electronic Equipment (WEEE) directive and Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

R&M's newest manufacturing and logistics center- the R&M Cube- at its headquarters in Wetzikon is a testament to its commitment to green initiatives.

The energy design is also remarkable. In the summer, heat generated in production and operating processes and in cooling the rooms is conveyed by means of borehole heat exchangers to a large underground storage system through cover panels suffused with water. This stored thermal energy is then used to heat the building in winter. During the cold season, the water in the borehole heat exchangers is heated with a heat pump from 12 to about 36 degrees Celsius to heat the cover panels. In summer, this water, which has a temperature of 12 degrees Celsius, is used to cool the rooms. As a result, the CO2 emissions are 90% lower than in conventional buildings.

This modern building is symbolic of the innovative approach and social consciousness that drive R&M. Now in its 50th year of business, the family-owned enterprise has scaled to an impressive 700 employees and has seen world-wide market growth even during tough economic times. It has done so thanks to a combination of high-tech production and an ultra-modern product range.

**The R&M Cube is one of the largest and most advanced low-energy corporate building in Switzerland.**



## Headquarters

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# R&M Middle East, Turkey & Africa

The R&M Middle East, Turkey & Africa regional office is located in the Dubai Airport Free Zone. In order to successfully support our customers we have invested deeply in the region and have developed first level supports for:

- Supply Chain- SPEED
- Marketing and Communication- REACH
- Consultancy and Training- EXPERTISE
- Project Engineering and Customisation- FLEXIBILITY



## R&M Middle East, Turkey & Africa's first level support: Supply chain

Speed to market is one of our key strengths in achieving our goals in the region. We are now even more efficient and capable of providing these services thanks to our supply chain and logistics team.



## Patch Cord Assembly Facility in Dubai Regional Office

R&M Patch Cord Assembly Line is the first of its kind in the region and has significantly boosted the speed of its cabling solution delivery capabilities as well as being more customer oriented.



## R&M's Middle East, Turkey & Africa's new training center :

Through the R&M Qualified Partner Program (QPP) we offer our customers, distributors, planners, installers and systems integrators a unique training and certification program. Training is conducted at the exceptionally well equipped training facility which offers excellent functionality and an ambiance suited for learning.

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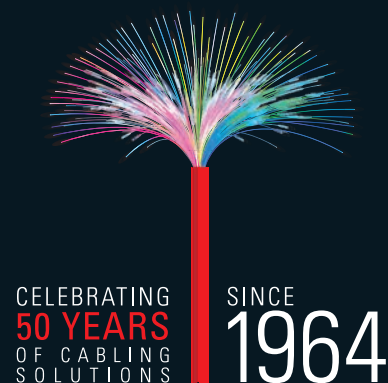
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Data Center: [www.datacenter.rdm.com](http://www.datacenter.rdm.com)  
Fiber To The Home: [www.ftth.rdm.com](http://www.ftth.rdm.com)  
Regional Website: [www.rdm.com/meta](http://www.rdm.com/meta)  
Regional Movie: <http://www.youtube.com/watch?v=skyN2Z6WnwY>



# Get more with R&M

R&M is one of the leading providers of passive cabling solutions for high quality communication networks. Worldwide, the company makes a crucial contribution to operational security in speech, data, and image transmission with copper and fiber-optic systems. As a system provider, R&M has set itself the goal of developing optimal functionality and, above all, fulfilling the highest quality criteria. In addition, R&M offers maximum installation and maintenance convenience. R&M solutions display their superiority through maximum availability with economical network operation. With high product quality and forward-looking design, R&M ensures that the networks will be capable in the future and that investments are secure in the long-term. R&M cabling solutions are used in office buildings, at network operators, in homes and in industry.



## GET MORE: SUCCESS

High-performance, reliable communication networks are decisive success factors for our customers. They expect investments in infrastructure to have a positive effect on profits, whether through higher productivity, reduced downtime costs or lower maintenance costs. This is why we do everything in our power to make our customers successful.

## GET MORE: CONTINUITY

R&M is an independent Swiss family company and is wholly owned by the Reichle family. Since it was founded in 1964, the company has concentrated on the development and manufacture of passive cabling systems for communication networks (layer 1). R&M invest in long-term company development, in this way our customers always know where they stand.

## GET MORE: SECURITY

Our products and services are aimed at greater stability and availability of networks. We achieve this through unique product quality. This guarantees long life and high performance. In addition, we intensively support planners, installers and end customers in system design, advise on the selection of systems and, on request, steer projects up to commissioning. In this way, we can influence the quality of the entire service performed.

## GET MORE: INNOVATION

At R&M, great value is placed on research and development. For 50 years, we have bundled competency in the fields of high-frequency technology and fiber optics. This is a unique basis for ongoing innovation. We participate in the formulation of many international standards and recognize trends at an early stage. Our proximity to our partners enables us to develop innovative products, solutions, and services that meet customers' needs. Our system solutions set benchmarks with regard to modularity, application variety and flexibility. Our customers benefit from forward-thinking solutions that will also master future challenges.

## GET MORE: QUALITY

Only goal-oriented quality management guarantees the constant improvement of products, services, and internal processes. R&M partners benefit worldwide from the uniformly high Swiss quality standard. The consistent quality philosophy can be seen in recognized certifications such as EN ISO 9001:2000. The competency of the R&M employees and the production expertise of R&M's suppliers are the pillars of our quality management system. For us, quality includes the responsible handling of resources and the protection of humans and the environment.

## GET MORE: FLEXIBILITY

Special tasks require special solutions. In such cases, we develop individual products and special service packages together with our customers. With our international organization, we are large enough to implement this flexibility everywhere on-site. But we are also small and dynamic enough to be able to react quickly and unbureaucratically to customer wishes.

## GET MORE: TEAM SPIRIT

We live the R&M family spirit. Our customers notice this and it benefits them immediately. They recognize R&M employees by their distinctive customer orientation. With short decision paths and collegial, team-oriented working manner, we promote individual initiative and creativity for the advantage of the customer.

## GET MORE: CUSTOMER PROXIMITY

We believe in proximity to our customers, no matter where they may be. You will find us on the spot wherever people work with our products. This proximity to our customers enables us to recognize today the demands, trends, and developments that will move the market tomorrow. In addition to selecting the right product, the cabling must be professionally planned, installed and operated for the network solution to meet all customer demands. These are crucial factors that R&M takes into account. We have established a global network of competent R&M partners who professionally advise customers on-site and provide the ideal solution for the situation at hand.



## R&M Data Center Solutions

With the top-quality modular cabling solutions from R&M, you make your data center substantially more flexible and efficient.

Pre-terminated and tested components and solutions substantially reduce the cost and the effort involved in installing, maintaining and expanding your infrastructure.

R&M data center solutions provide you with the security, reliability and flexibility you need in operations and help you carry out your future plans.

Get more:

Increased efficiency

Maximum flexibility

Maximum availability

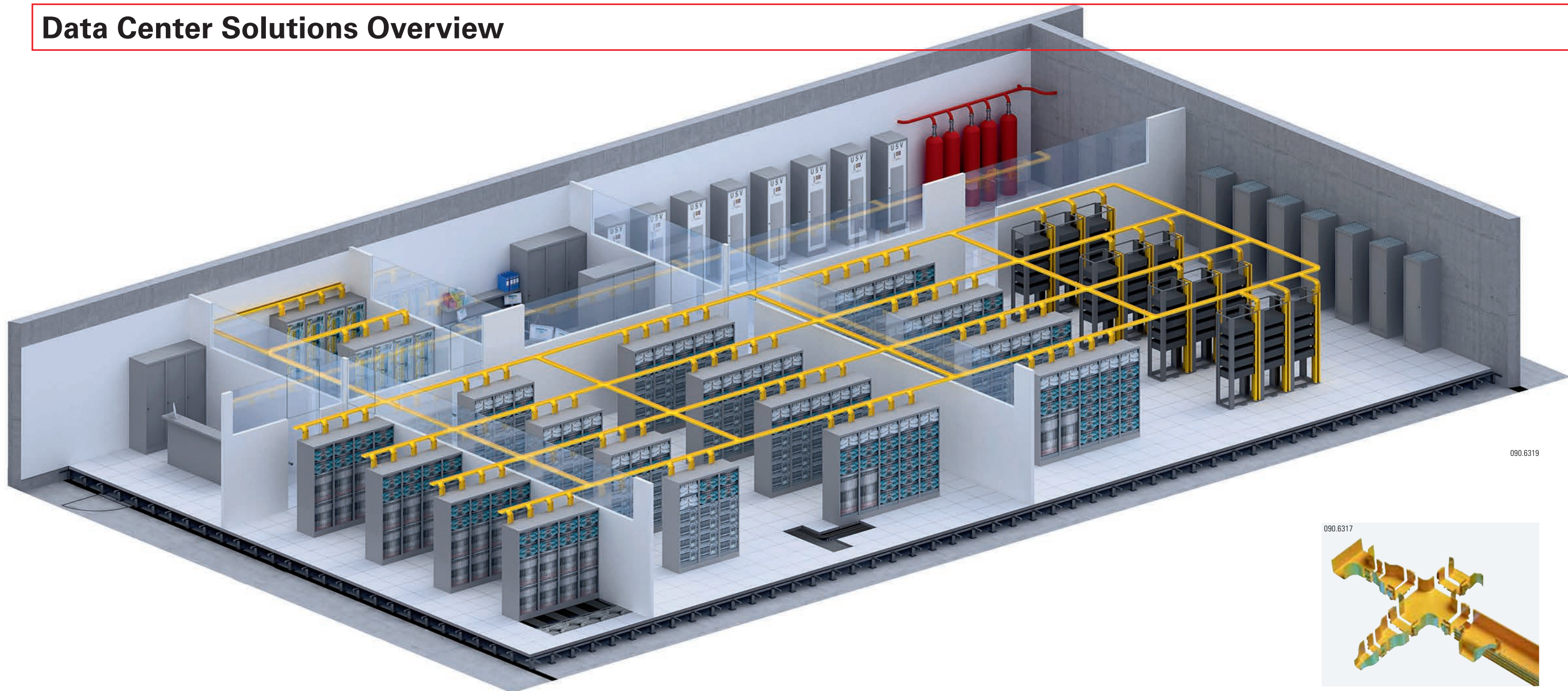
Simplest installation

Effortless expansion

Sound and lasting investment



# Data Center Solutions Overview



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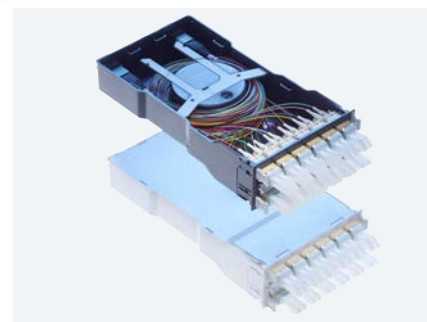
## R&Mfreenet – Warranty Program

- Long-term system and application warranties genuinely protect your investments
- Certified R&M partner network for competent planning and installation
- Maximum operational reliability and availability thanks to globally uniform installation standards



## High-density MPO/MTP® system

- Cabling systems for seamless migration from 10 Gbit/s to 40/100 Gbit/s
- Pre-terminated and factory-tested plug & play solutions for maximum quality
- MPO/MTP® connectors for reliable, fast and compact installations



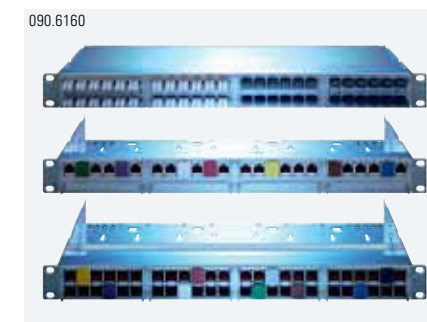
## Efficient use of space

- High bandwidth in the tinniest of spaces
- Easy migration to 40/100 GbE
- Clever polarity method S
- Modular scalable system



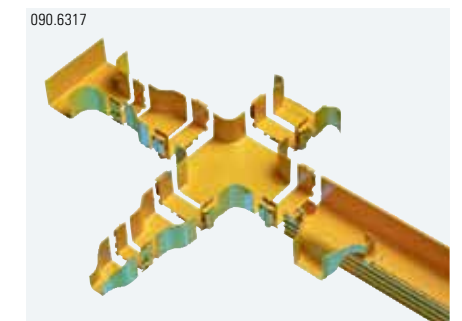
## Plug & play systems

- Individually pre-terminated and tested cabling systems for copper and fiber optics
- Efficient, error-free installation for increased reliability in installation
- Significant reduction in installation times



## Maximum packing density

- Modularly designed panel offering maximum flexibility for copper and fiber optics
- More space for active components in the distribution cabinet thanks to its 48 ports per unit
- Complete scalability from 10 Gbit/s to 40/100 Gbit/s applications

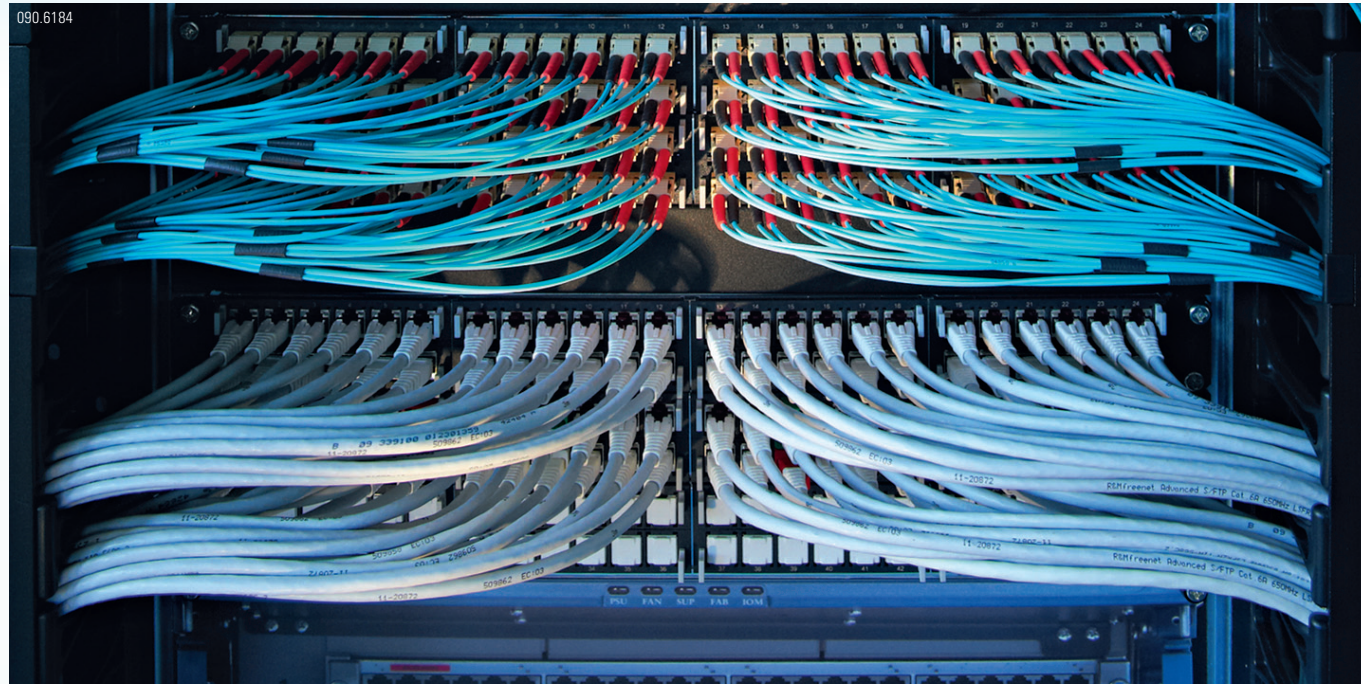


## Cable management

- Intuitive cable management for efficient work processes and maximum flexibility
- Simple handling thanks to end-to-end system requiring no tools
- All move, add and change requirements require no effort at all



## Flexibility for your data center



### Responding flexibly to every requirement

Applications such as cloud computing, cloud services and social media cause data volumes to skyrocket. Operators need ever more complex data centers with ever greater capacities to handle this situation. They are called on to implement constantly changing requirements efficiently despite mounting cost pressures. At the same time, planning and implementation cycles are becoming shorter and shorter, demanding a maximum in flexibility. Data center operators need profitable solutions that ensure maximum availability, suitability for consolidation and expansion, and maximum energy efficiency.

### More efficiency and flexibility

Flexibility and efficiency in installation, operation and maintenance are therefore crucial factors in the differentiation of data centers from each other. This agility is based on a structured cabling solution that is neutral in terms of application and in compliance with the relevant industry standards. R&M is market and technology leader in high-quality, modular cabling systems for copper and fiber optics. Our components and solutions have been proving their mettle for years in daily service in data centers around the globe.

### Solutions for the toughest demands

Cabling solutions from R&M meet the toughest demands on transmission quality, security and stability. Installation times are much shorter thanks to consistently modular design and fast installation technology. Move, add and change (MAC) requirements can be handled flexibly and efficiently. Operators can effortlessly carry out even complex migrations with individually pre-terminated and tested cabling links or application-ready distribution cabinets. R&M competently assists data centers with everything from design and installation to expansion and operation in addition to offering qualified on-site support.

## Decisive benefits for your data center



R&M is your independent partner for high-quality cabling solutions with cutting-edge technology from a single source.

### Increased efficiency in planning, installation and operation

With the modular cabling solutions from R&M, operators can plan systems quickly and easily and put them into operation without a hitch. These top-quality systems incorporate the latest technology and comply with standards for guaranteed reliability and performance with each connection. Pre-terminated copper and fiber-optic cables with fast-installation technology and convenient handling reduce installation work substantially.

### Maximum availability

The high quality standards of R&M ensure reliable, uninterrupted operation to satisfy the highest service levels. New transmission technologies maximize performance. All components and solutions are thoroughly tested and examined before delivery. The innovative safety system prevents people from tampering with the network.

### IMAC (installation, move, add, change) has never been easier

End-to-end modularity simplifies planning, installation and operation. With pre-terminated copper and fiber-optic cable, operators can maintain and expand their systems with the greatest of ease. Thanks to

the forward-looking MPO/MTP® portfolio, migration from 10 Gbit/s to 40/100 Gbit/s is absolutely trouble-free. Solutions for patch management and cable management as well as a clear, consistent labeling concept further simplify maintenance and administration.

### Genuinely sound investment

With the structured cabling concept from R&M, you can set up the infrastructure independent of the architecture and it remains scalable and migratable. R&M quality management ensures the most stringent standards in product quality. The installations are executed by certified planners and installers from the Qualified Partner Program (QPP). The system warranty means long-term protection of each investment in a solution from R&M.

### R&M Green Initiative

R&M solutions increase energy efficiency in data centers. All components are modular to allow optimum reuse. This approach helps to reduce the amount of material utilized. **R&M insists on environmentally-friendly manufacturing processes that minimize the waste rate, recycle materials and save energy.** In production, R&M uses materials that are compatible with the environment and international environmental directives (e.g. RoHS/WEEE/REACH).

**For more information, please visit our website:**

[www.datacenter.rdm.com](http://www.datacenter.rdm.com)



# R&MinteliPhy : Retrofitable AIM

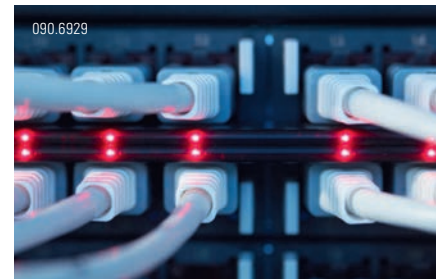
## RFID ON THE CONNECTORS

An RFID tag on the connector knows all there is to know about the cable. It is the source of information for the infrastructure management system. The retrofittable clip with the tag fits all R&M copper and fiber optic patch cords.



## SENSORS ON THE PATCH PANEL

A Sensorbar contactlessly reads the information contained on the RFID tags. It can be mounted on all R&M HD patch panels. The Sensorbar records connectors and connections. LEDs signal the operating state and show where patching is needed.



## ANALYZER IN THE CABINET

The Analyzer links Sensorbars with the Server. It monitors one or more cabinets, reading information from the Sensorbars via a bus cable and delivering the data to the Server. It is installed in a 19" cabinet or, to save space, on top hat rails.



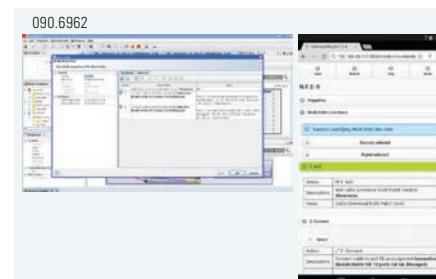
## SERVER IN THE LAN

From its central position in the LAN or deployed as service in the cloud the R&MinteliPhy Manage Server monitors the entire infrastructure in real time. It offers a large selection of management / automation tools and interfaces to other systems.



## ADMINISTRATION AT THE CLIENT

Any web browser or smartphone suffices for monitoring and management. The graphical user interface features intuitive operation and provides access to all functions.





## MORE EFFICIENT MANAGEMENT IN DATA CENTERS

With R&M*inteliPhy*, data centers optimize their management and their infrastructure processes. The system records and monitors the network configuration centrally and in real time. It ensures complete monitoring of every port. Better use is made of resources as a result because the system knows which ports are free and which racks still have space available. The administrator is immediately alerted about unsolicited changes to the infrastructure. Repairs are faster and the availability of the data center increases. Network drawings, cabinet layouts, labels or connection plans can be created error-free with a few mouseclicks. The result: greater transparency, more efficient management of quality and risks, improved compliance, successful audits.



## CENTRAL MANAGEMENT OF CAMPUS AND FACILITIES

R&M*inteliPhy* brings huge advances for IT managers. The system is capable of centrally managing large networks extending over many buildings and can handle connections between different sites. No one has to be on site to monitor a LAN or document patching changes. Change procedures can be standardized and automated. Optimum cable routes and link lengths can be computed in combination with geographical information systems, site and floor plans. Tree diagrams and network maps facilitate the overview of complex networks. The result: efficient IT management, more control and greater availability.



## PLANNING INSTALLATIONS AND MAC

Network planners and IT responsables appreciate the abundance of functions, visualization tools and component libraries that come with R&M*inteliPhy* Manage. The client-server solution supports automatic routing, risk analysis and emergency assistance. The planning of new installations or MAC (move, add & change) is finished in no time. Templates for network components help with these tasks. The system creates work orders in logical sequence, complete with bills of materials, and sends them by e-mail to installation crews or to their smart phones. LEDs on the Sensorbars show which cables have to be connected to which ports. Work order execution is constantly monitored so the IT manager is aware of the current status at any time.



## get more

### More security

- Full control over all ports
- Real-time monitoring
- Automatic alarms
- Fewer patching mistakes
- Logging of all changes

### More efficiency

- Standardized processes
- Central database
- Automatic routing
- Easy MAC planning
- Visual guidance at the patch panel

### More profitability

- Greater availability
- Better capacity utilization
- Effective outsourcing
- Reduced operating expenses
- Short payback period



## INTELLIGENT INFRASTRUCTURE MANAGEMENT

R&M*inteliPhy* opens up a new era for network managers. Now, they can manage their physical infrastructure intelligently and fully automatic. Neither special patch cords nor new patch panels are needed. Notepads are things of the past, as are hard-to-manage tables. With R&M*inteliPhy* data centers immediately improve the capacity utilization, profitability and availability. IT managers gain control over all ports and more. This is because R&M*inteliPhy* helps with analysis and documentation, with the introduction of standardized processes and with all typical management tasks associated with passive infrastructure.

## RETROFITABLE AIM SOLUTION

R&M*inteliPhy* Monitor and R&M*inteliPhy* Manage are the two pillars of the AIM solution from R&M (AIM = Automated Infrastructure Management).

R&M*inteliPhy* Monitor consists of a small number of components that can be retrofitted: RFID tags for patch cords, Sensorbars for patch panels and Analyzers for the network cabinets. R&M*inteliPhy* Manage is the client-server solution with a central database installed on a server in the LAN or available as a cloud-based service with numerous automating functions, routing / planning tools and extensive component libraries.

That is all a company needs to manage the passive infrastructure of a data center or corporate network from any location. And R&M*inteliPhy* grows with a company's needs. Users have the flexibility to choose which part of their R&M infrastructure they want to automate and when.

## OPTIMIZED OPERATIONS MANAGEMENT

A powerful AIM system is needed because data centers today have no more leeway. The utilization of resources has to be maximized. No one can allow themselves the luxury of delays, downtimes or mistakes. Change requests have to be carried

out immediately and without mistakes.

Manual administration also works but has serious drawbacks. Personnel resources and time are needed to update tables or databases. The information is never current and complete. That complicates trouble-shooting and MAC processes, not to mention optimum capacity utilization and controlled quality.

Finally, manual data management is subject to a natural error rate of 10%. That has consequences. Up to 28% of downtime in data centers can be traced to patching mistakes caused by insufficient documentation or a lack of process control. Over time, up to 40% of active switch ports disappear because of documentation errors. This is inefficient use of capital investments.

## QUICK RETURN ON INVESTMENT

By contrast, an AIM system delivers a full overview about the status and configuration of the network and does so in real time at one central location. AIM replaces manual activities with standardized processes.

The payback period for an investment in an AIM system is typically less than a year. In other words, it is worthwhile to invest in AIM.



Cabling is the foundation for every communication solution. It has the longest service life of all layers in the OSI model: 10 to 15 years.

R&M has a compelling cabling solution for your network: R&Mfreenet. The name says it all. R&Mfreenet gives you more freedom in the planning, installation and operation of data and communication networks.

But that's not all. With R&Mfreenet you can be sure that the components will always be compatible with each other, from individual connector families to entire sets of building equipment and extended campus infrastructures.

R&Mfreenet is an open-ended, modular cabling system for building up high-performance fiber optic and copper networks. It covers the entire spectrum of passive connection and distribution technology in accordance with ISO/IEC11801, EN50173-x and TIA568-x. R&Mfreenet supports all present and upcoming applications and can handle any operating environment.

The reliability of R&M cabling systems is based on innovative engineering, high quality standards and expertise from 50 years in business. We draw intensive dialogues with our customers and partners to produce improvements and individual adjustments on an ongoing basis.

As the leading Swiss cabling specialist, R&M is following a consistent path. We offer our partners in the market a high quality system capable of handling future requirements. Get more. Rely on R&Mfreenet. Cabling is the foundation for every communication solution. It has the longest service life of all layers in the OSI model: 10 to 15 years.

Ethernet Protocols IEEE 802.3 (maximum values)	Application Area Copper (m)				Application Area Fiber Optic (m)			
	Cat. 5e	Cat. 6	Cat. 6 Real10*	Cat. 6A	OM1/2	OM3	OM4	OS2
100 Gbit/s	–					125	150	40 000
40 Gbit/s	–					125	150	
10 Gbit/s	–		100	100	82	300	550	
1 Gbit/s	100	100	100	100	500	750	750	
100 Mbit/s	100	100	100	100	550	550	550	

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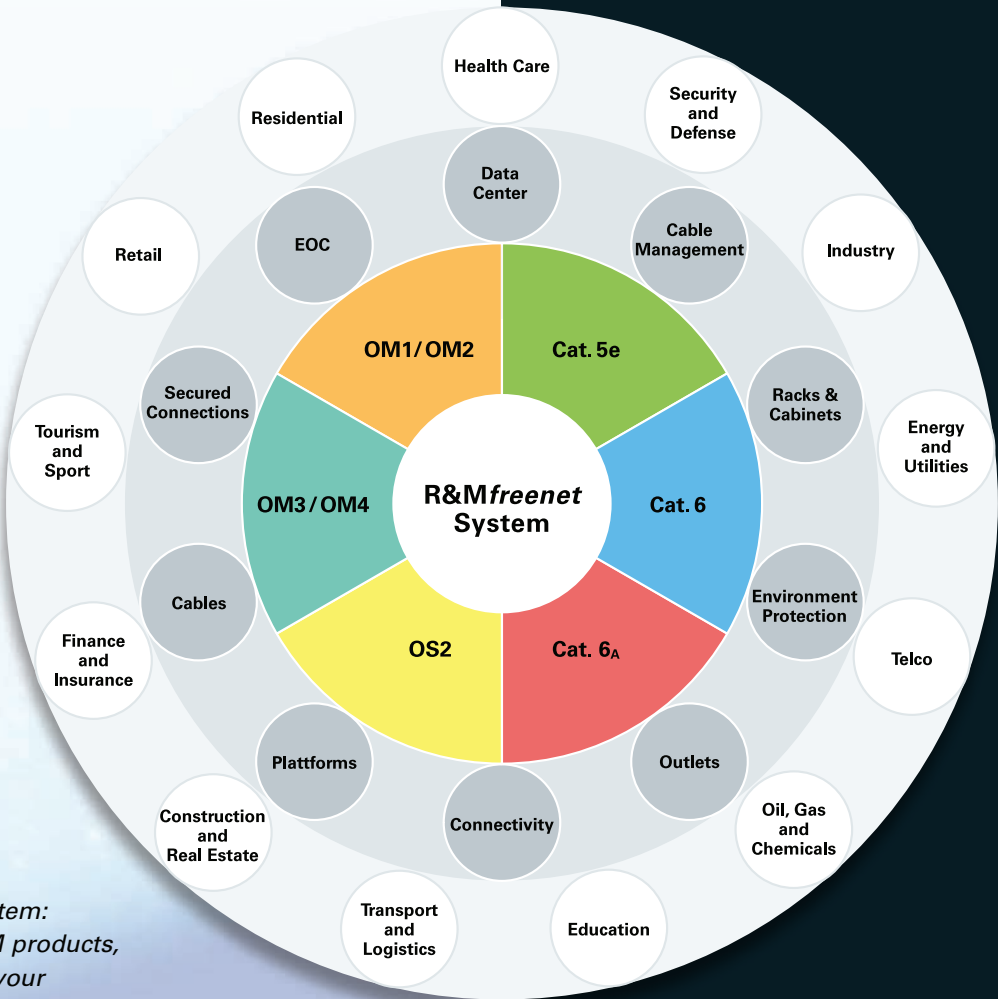
\* R&M Real10 assures in combination with R&M materials Class E<sub>x</sub> Channel Performance

R&Mfreenet covers the passive connection and distribution equipment for applications involving up to 100 Gigabit Ethernet and transmission distances of up to 40 kilometers.

Fiber optic or copper. Distribution cabinet or entire network. Structured building cabling, office LAN, data center infrastructure or industrial Ethernet. With R&Mfreenet you can cable everything with the utmost ease, reliability and speed.

Modular cabling systems from R&M give you more latitude in design and layout. With our comprehensive range, you can choose items that best fit your network design, your project and your industry. Combine fiber optic and copper systems, platforms and housings, distribution and connection solutions as needed. Install unique reliability and security, outstanding performance and no-compromise quality. Save time and money with the ingenious fast-installation technique, the pre-terminated units and the intuitive operation of R&M products. You team up with our sales specialists on site to select the optimum combination of products for your application.

Improve your value chain even more with Swiss engineering. Benefit from the life-long application warranty and absolute reliability. You will remain flexible for decades. Become part of the R&M Qualified Partner Family. Opt for R&Mfreenet.



The philosophy of the R&Mfreenet system: With the comprehensive range of R&M products, you can choose the items that best fit your network design, your project and your industry.

# The R&M Academy

## CERTIFIED INSTALLER PROGRAM – **CIP**

### PUBLIC NETWORKS

### R&Mfoxs Education Program

## **QPP** – QUALIFIED PARTNER PROGRAM

### ENTERPRISE NETWORKS

### R&Mfreenet Education Program

Certified CIP  
Instructor  
(R&M Staff Only)

Certified QPP  
Instructor  
(R&M Staff Only)

ISP  
Installation  
Manager

OSP  
Installation  
Manager

Onsite  
Product  
Master

Standard Terms  
& Conditions

R&MinteliPhy  
Service  
Partner

Lifetime Application Warranty

25 Years System Warranty

5 Year Product Warranty

Qualified  
Copper  
Installer  
Qualified  
Fiber Optics  
Installer  
Sales & Support  
Specialist

OC  
Installation  
Manager  
DC  
Installation  
Manager

OC  
Designer  
DC  
Designer

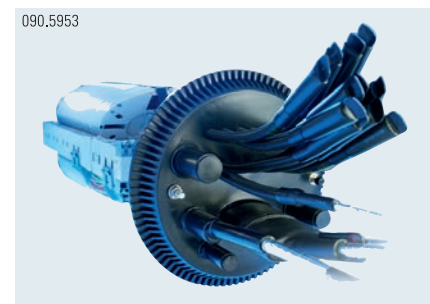
#### WITH SWISS PRECISION

The R&M name is your guarantee of no-compromise quality. In their manufacturing, R&M and all suppliers follow the best traditions of Swiss precision engineering. With QPP/CIP, R&M partners now extend this unique quality control system all the way to the end customer.



#### BEST CABLING SYSTEM

R&Mfreenet or R&Mfoxs is your first choice. You get more from this modular cabling system. In fact, it exceeds every standard in terms of performance, reliability and quality. The quick installation technique is efficient and exemplary.



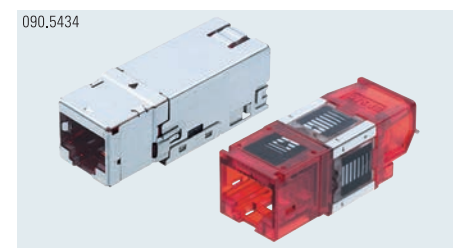
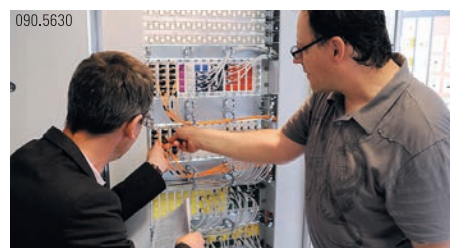
#### FOR EVERY ENTERPRISE PROJECT

With R&Mfreenet, R&M partners can tackle any project whether it involves planning structured office and building cabling, installing networks in data centers or putting in the entire infrastructure for an industrial site.



#### IN GENUINE PARTNERSHIP

A company benefits lastingly once it becomes an R&M partner. Quality in business, reliable logistics, individual support... R&M has everything cabling pros need on a daily basis and offers eye-to-eye partnership that is both genuine and fair.



#### FOR EVERY FTTX AND WAN PROJECT

With R&Mfoxs, R&M Partners have the skills and experience to undertake any project, whether it involves installing outside plant material, planning a central office infrastructure or putting in a complete city-wide network ring.

#### OUR SYSTEM FOR SUCCESS

R&M's Qualified Partner Program (QPP) and Certified Installer Program (CIP) are as effective as the R&M cabling system. QPP/CIP turns cabling pros around the globe into experts in quality for copper and fiber-optic solutions.





# Expert Installation

## SUPPORT FOR PARTNERS

With the R&M Academy R&M ensures top-notch training and installations worldwide. R&M uses only highly qualified employees from its own ranks as instructors.

## QUALIFICATION THROUGH THE R&M ACADEMY TRAINING PROGRAMS

Graduates from the R&M Academy receive an ID Card along with a certificate and unrestricted permission to install R&M *freenet* and/or R&M *foxs* systems.

## QPP – R&M *freenet* EDUCATION PROGRAM

R&M offers installers the choice of copper and/or fibre in-depth, hands-on training to enable them to install, test and fault-find enterprise cabling systems to the highest quality.

Distributors can participate in the R&M *freenet* Education Program through the “Sales and Support Specialist” Course, which trains them to make the right choices for product specification and selection for their customers.

Installation managers are responsible for proper and professional installation and for quality control for R&M *freenet* systems. They receive comprehensive support from R&M. They can give their customers a twenty five-year R&M system warranty for correctly installed structured cabling solutions in one of two disciplines:

- Office Cabling
- Data Center

Designers take full responsibility for projects, for compliance with standards and for the proper and professional implementation of the cabling system. They work according to R&M installation and quality guidelines. They have a decisive influence on the performance and operational reliability of the planned data and communication networks. R&M extends a life-long application warranty for any projects they carry out.

There are two disciplines a designer can choose:

- Office Cabling
- Data Center

## WHO CAN BENEFIT FROM THE R&M ACADEMY?

Installers, network planners and designers, distributors, distribution partners, IT consultants, service and maintenance personnel, users, network administrators, facility managers.

## HOW TO BECOME AN R&M PARTNER

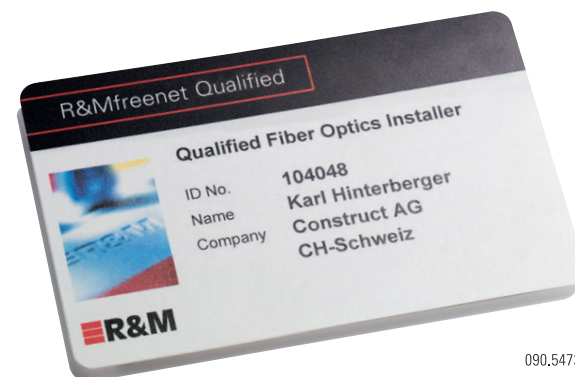
Talk with the R&M market organization in your country. If you are serious about offering your customers products and installation work of impeccable quality, we are certain to come to an agreement.

## EXPERTISE AND A GOOD REPUTATION

R&M Academy participants can receive continuing education credits (CEC) from the professional IT association BICSI (Building Industry Consulting Service International), putting them well on their way to becoming internationally recognized network experts RCDD (Registered Communications Distribution Designer).

## www.rdm.com/RMacademy

Everything R&M partners need for their success is available online: warranty program, test guidelines, certification request and partner agreement. For more information, please visit [www.rdm.com/RMacademy](http://www.rdm.com/RMacademy).



090.5473

# Product data online

The entire R&M product line can also be found online with plenty of additional information and extra functionality. For example, with a few clicks, you can produce a comprehensive and professional attachment to your quotations or extensive documentation of selected products for your customer or your own project.

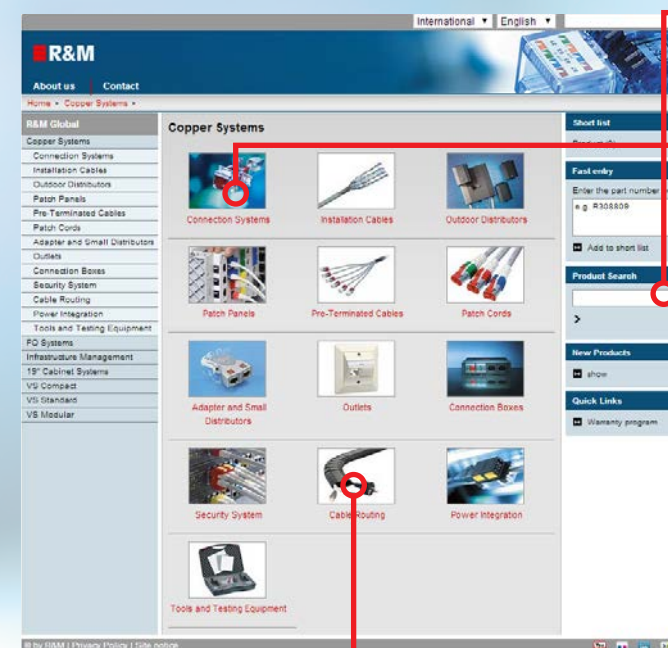
## The way to the product



Menu with identical structure as in the printed version.

Search with R-number or product name.

## The product page



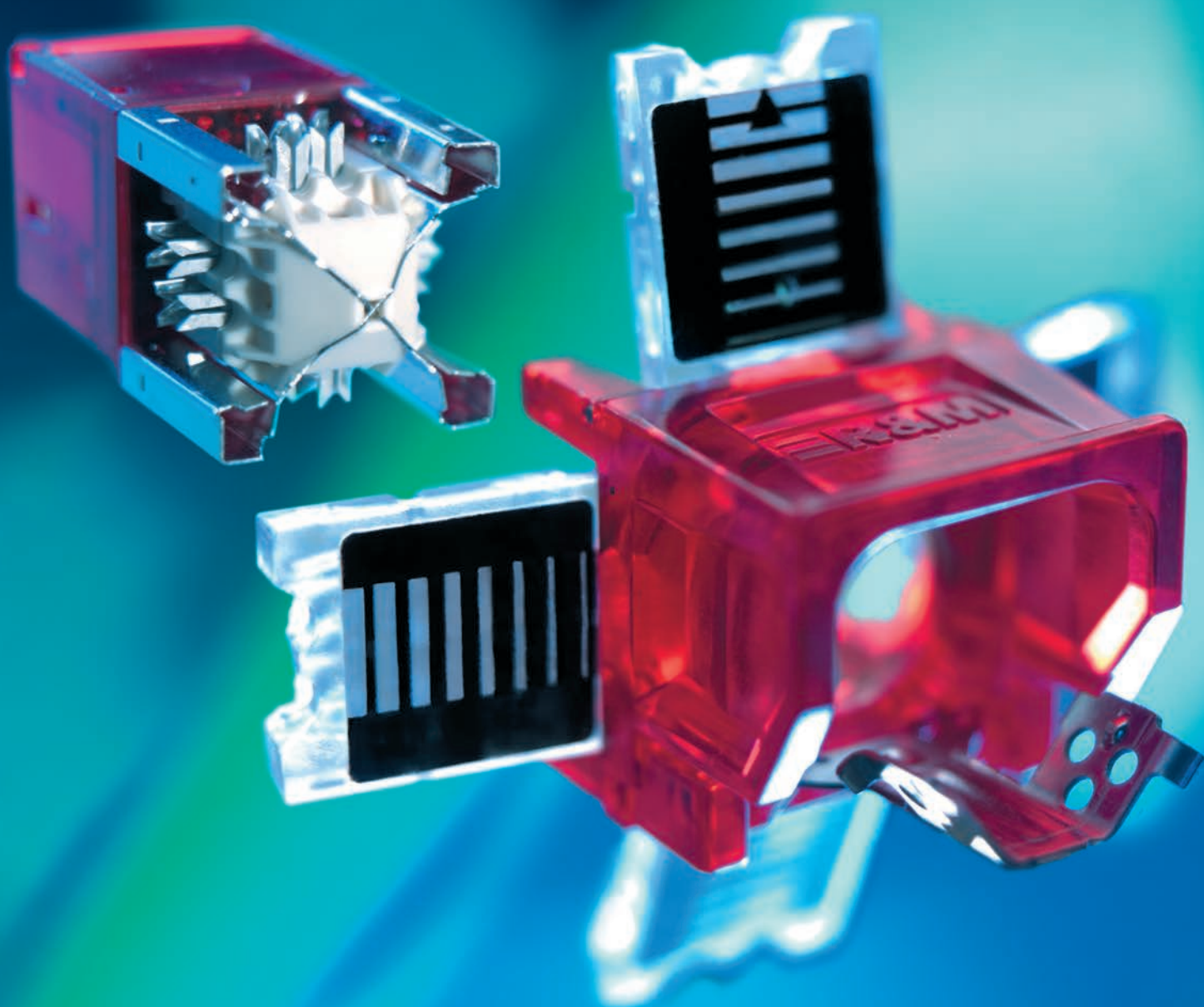
Collect interesting products in a shortlist.

Find comprehensive information on the product from the tabs.

Use the information directly: as a print-out, as a PDF, or send an e-mail to a colleague.

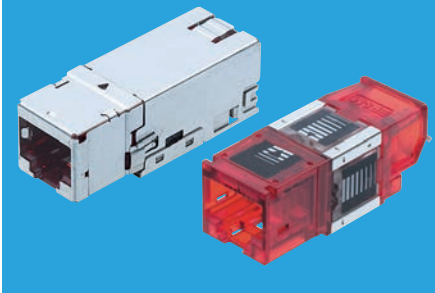
Visit our website: [www.universe.rdm.com](http://www.universe.rdm.com) section online catalogue







090.5434



#### Features

- Exceeds the Cat.6A ISO specification (mated) for the entire re-embedded plug range as specified by IEC 60603-7-51 (shielded), 60603-7-41 (unshielded) and IEC 60512-27-100. Exceeds the Cat.6A specification (mated) for the entire re-embedded plug range as specified by TIA/EIA 568-C.2
- Achieves exceptional margins when installed as part of an R&M Cat.6A ISO 4-conductor channel or permanent link, exceeding the IEEE 802.3an minimum requirements for 10GBASE-T performance, as well as the requirements for Class EA performance according to ISO/IEC 11801 ed. 2.2, 2011, and Cat.6A performance according to TIA/EIA 568-C.2
- Automatic cutting of wires for precise, consistent termination
- X-Separator isolates pairs from each other, minimizing influence of cable termination on NEXT performance
- Use of all four sides of modules maximizes distance between pairs for optimum performance
- GHMT and 3P certifications for Cat.6A ISO component performance



#### Special packing unit for installers.

100 connection modules RJ45. Saves time and waste.

#### Ordering Information

#### Description

#### MOQ

#### Part Number

090.5360



#### Connection Module Cat.6A ISO, 1xRJ45/s,

Supplied:

- RJ45 Cat.6A ISO connection module, shielded
- Mounting plate
- EMC cover
- Dust cover
- Cable tie
- Installation instructions

**10x**

10

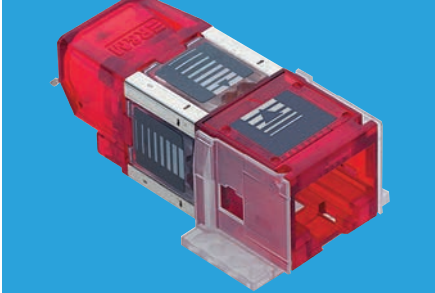
R509504

**100x**

100

R509505

090.5447



#### Connection Module Cat.6A ISO, 1xRJ45/u,

Supplied:

- RJ45 Cat.6A ISO connection module, unshielded
- Mounting plate
- Dust cover
- Cable tie
- Installation instructions

**10x**

10

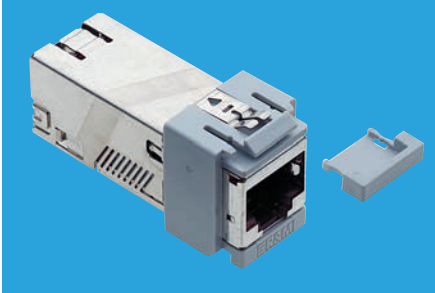
R509500

**100x**

100

R509501

090.5361



#### Connection Module Cat.6A ISO, 1xRJ45/s, Snap-in,

Supplied:

- RJ45 Cat.6A ISO connection module, shielded
- Snap-in adapter
- EMC cover
- Dust cover
- Cable tie
- Installation instructions

**10x**

10

R509506

**100x**

100

R509507



Ordering Information	Description	MOQ	Part Number
090.5973	<b>Connection Module Cat.6A ISO, 1xRJ45/s, Snap-in, black,</b> Supplied: – RJ45 Cat.6A ISO connection module, shielded – Snap-in adapter – EMC cover – Dust cover – Cable tie – Installation instructions <b>24x</b>	24	R511999
090.5448	<b>Connection Module Cat.6A ISO, 1xRJ45/u, Snap-in,</b> Supplied: – RJ45 Cat.6A ISO connection module, unshielded – Snap-in adapter – Dust cover – Cable tie – Installation instructions <b>10x</b> <b>100x</b>	10 100	R509502 R509503
090.5970	<b>Connection Module Cat.6A ISO, 1xRJ45/u, Snap-in, black,</b> Supplied: – RJ45 Cat.6A ISO connection module, unshielded – Snap-in adapter – Dust cover – Cable tie – Installation instructions <b>24x</b>	24	R511998
090.5359	<b>Connection Module Cat.6A ISO, 1xRJ45/s, Special,</b> Supplied: – RJ45 Cat.6A ISO connection module, shielded, without mounting plate – EMC cover – Dust cover – Cable tie – Installation instructions <b>10x</b> <b>100x</b>	10 100	R803927 R510088
090.5449	<b>Connection Module Cat.6A ISO, 1xRJ45/u, Special,</b> Supplied: – RJ45 Cat.6A ISO connection module, unshielded, without mounting plate – Dust cover – Cable tie – Installation instructions <b>10x</b> <b>100x</b>	10 100	R803926 R510087

Ordering Information	Description	MOQ	Part Number
090.5451	<b>Connection Module Cat.6A ISO, 1xRJ45/s, Keystone,</b> Supplied: – RJ45 Cat.6A ISO connection module, shielded, with Keystone adapter – EMC cover – Dust cover – Cable tie – Installation instructions <b>10x</b>	10	R509509
090.5450	<b>Connection Module Cat.6A ISO, 1xRJ45/u, Keystone,</b> Supplied: – RJ45 Cat.6A ISO connection module, unshielded, with Keystone adapter – Dust cover – Cable tie – Installation instructions <b>10x</b>	10	R509508
090.6795	<b>Connection Module Cat.6A ISO, 1xRJ45/s, adapter No.1,</b> Supplied: – RJ45 Cat.6A ISO connection module, shielded, with adapter No.1 – EMC cover – Dust cover – Cable tie – Installation instructions <b>10x</b>	10	R808370
090.6789	<b>Connection Module Cat.6A ISO, 1xRJ45/u, adapter No.1,</b> Supplied: – RJ45 Cat.6A ISO connection module, unshielded, with adapter No.1 – Dust cover – Cable tie – Installation instructions <b>10x</b>	10	R808371



Connection Systems  
RJ45 Connection Modules Cat.6  
Real10 Cat.6



- Features**
- As part of a Real10 Cat.6 channel, the Real10 connection module exceeds the minimum requirements of the IEEE 802.3an standard on 10GBASE-T performance, as well as the requirements for Class EA performance acc. to ISO/IEC 11801 ed. 2.2, June 2011 and Cat. 6A performance according to TIA/EIA 568-C.2
  - Exceeds Cat.6 specifications acc. to ISO/IEC 11801, EN 50173 and TIA/EIA 568C in the entire admissible range
  - Maximum reliability through special contact design without internal transfer points
  - Capacitive and inductive compensation
  - Delta, GHMT and 3P certified

**i Special packing unit for installers.**  
100 connection modules RJ45. Saves time and waste.

Ordering Information	Description	MOQ	Part Number
	<b>Connection Module Real10 Cat.6, 1xRJ45/s,</b> Supplied: <ul style="list-style-type: none"><li>– RJ45 Real10 Cat.6 connection module, shielded</li><li>– Mounting plate</li><li>– EMC cover</li><li>– Dust cover</li><li>– Cable tie</li><li>– Installation instructions</li></ul>		
	<b>10x</b>	10	R302372
	<b>100x</b>	100	R304327
	<b>500x</b>	500	R510081
	<b>Connection Module Real10 Cat.6, 1xRJ45/u,</b> Supplied: <ul style="list-style-type: none"><li>– RJ45 Real10 Cat.6 connection module, unshielded</li><li>– Mounting plate</li><li>– WARP cover</li><li>– Dust cover</li><li>– Cable tie</li><li>– Installation instructions</li></ul>		
	<b>10x</b>	10	R313064
	<b>100x</b>	100	R313083
	<b>Connection Module Cat.6, 1xRJ45/u,</b> Supplied: <ul style="list-style-type: none"><li>– RJ45 Cat.6 connection module, unshielded</li><li>– Mounting plate</li><li>– Dust cover</li><li>– Cable tie</li><li>– Installation instructions</li></ul>		
	<b>10x</b>	10	R302373
	<b>100x</b>	100	R304328
	<b>500x</b>	500	R509917

Connection Systems  
RJ45 Connection Modules Cat.6  
Real10 Cat.6

Ordering Information	Description	MOQ	Part Number
	<b>Connection Module Real10 Cat.6, 1xRJ45/s, Snap-in,</b> Supplied: <ul style="list-style-type: none"><li>– RJ45 Real10 Cat.6 connection module, shielded</li><li>– Snap-in adapter</li><li>– EMC cover</li><li>– Dust cover</li><li>– Cable tie</li><li>– Installation instructions</li></ul>		
	<b>10x</b>	10	R304373
	<b>100x</b>	100	R308732
	<b>500x</b>	500	R510083
	<b>24x Black</b>	24	R512370
	<b>Connection Module Real10 Cat.6, 1xRJ45/u, Snap-in,</b> Supplied: <ul style="list-style-type: none"><li>– RJ45 Real10 Cat.6 connection module, unshielded</li><li>– Snap-in adapter</li><li>– WARP cover</li><li>– Dust cover</li><li>– Cable tie</li><li>– Installation instructions</li></ul>		
	<b>10x</b>	10	R313090
	<b>100x</b>	100	R313092
	<b>Connection Module Cat.6, 1xRJ45/u, Snap-in,</b> Supplied: <ul style="list-style-type: none"><li>– RJ45 Cat.6 connection module, unshielded</li><li>– Snap-in adapter</li><li>– Dust cover</li><li>– Cable tie</li><li>– Installation instructions</li></ul>		
	<b>10x</b>	10	R304374
	<b>100x</b>	100	R308734
	<b>500x</b>	500	R510082
	<b>24x Black</b>	24	R512369



Ordering Information	Description	MOQ	Part Number
010.2016	<b>Connection Module Real10 Cat.6, 1xRJ45/s, Special,</b> Supplied: – RJ45 Real10 Cat.6 connection module, shielded, without mounting plate – EMC cover – Dust cover – Cable tie – Installation instructions <b>20x</b>	20	R305113
090.2317	<b>Connection Module Real10 Cat.6, 1xRJ45/u, Special,</b> Supplied: – RJ45 Real10 Cat.6 connection module, unshielded, without mounting plate – WARP cover – Dust cover – Cable tie – Installation instructions <b>20x</b>	10	R313084
010.2017	<b>Connection Module Cat.6, 1xRJ45/u, Special,</b> Supplied: – RJ45 Cat.6 connection module, unshielded, without mounting plate – Dust cover – Cable tie – Installation instructions <b>20x</b>	20	R305114
010.2016	<b>Connection Module Real10 Cat.6, 1xRJ45/s, Flap Jack,</b> The module is designed for use with Flap Jack module holders and Flap Jack wall plates. Supplied: – RJ45 Real10 Cat.6 connection module, shielded, without mounting plate – Modified EMC cover – Dust cover – Cable tie – Installation instructions <b>20x</b>	20	R305764
090.2317	<b>Connection Module Real10 Cat.6, 1xRJ45/u, Flap Jack,</b> The module is designed for use with Flap Jack module holders and Flap Jack wall plates. Supplied: – RJ45 Real10 Cat.6 connection module, unshielded, without mounting plate – Modified WARP cover – Dust cover – Cable tie – Installation instructions <b>20x</b>	20	R313103

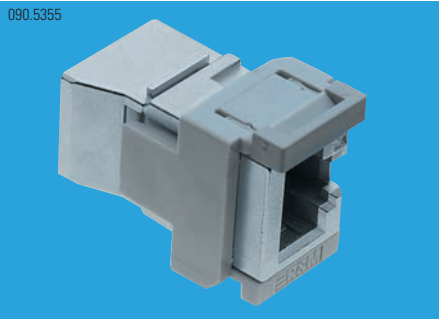
Ordering Information	Description	MOQ	Part Number
090.5327	<b>Features</b> – Exceeds the Cat.5e specification (mated) for the entire de-embedded plug range as specified by the standards (ISO/IEC 11801, EN 50173 and TIA/EIA 568C) – Attains Cat.5e values together with Cat.5e patch cables, as specified in standard IEC 11801 Ed. 2.2 – Achieves best transmission characteristics with R&Mfreenet Cat.5e patch cables – Gold-plated contact area and tin-plated insulation displacement contact area – Maximum reliability through special contact design that does not use internal transfer points such as printed circuit board – Capacitive and inductive compensation		
	<b>i</b> <b>Special packing unit for installers.</b> 100 connection modules RJ45. Saves time and waste.		
090.5328	<b>Connection Module Cat.5e, 1xRJ45/s,</b> Supplied: – RJ45 Cat.5e connection module, shielded – Mounting plate – EMC cover – Dust cover – Cable tie – Installation instructions <b>10x</b> <b>100x</b>	10 100	R925370 R304325
090.5327	<b>Connection Module Cat.5e, 1xRJ45/u,</b> Supplied: – RJ45 Cat.5e connection module, unshielded – Mounting plate – Dust cover – Cable tie – Installation instructions <b>10x</b> <b>100x</b>	10 100	R925371 R304326
090.5332	<b>Connection Module Cat.5e, 1xRJ45/s, Snap-in,</b> Supplied: – RJ45 Cat.5e connection module, shielded – Snap-in adapter – EMC cover – Dust cover – Cable tie – Installation instructions <b>10x</b> <b>100x</b>	10 100	R302780 R308731



Ordering Information	Description	MOQ	Part Number
090.5331	<b>Connection Module Cat.5e, 1xRJ45/u, Snap-in,</b> Supplied: – RJ45 Cat.5e connection module, unshielded – Snap-in adapter – Dust cover – Cable tie – Installation instructions	10	R302518
		100	R308733
090.5329	<b>Connection Module Cat.5e, 1xRJ45/s, Special,</b> Supplied: – RJ45 Cat.5e connection module, shielded, without mounting plate – EMC cover – Dust cover – Cable tie – Installation instructions	20	R305111
090.5330	<b>Connection Module Cat.5e, 1xRJ45/u, Special,</b> Supplied: – RJ45 Cat.5e connection module, unshielded, without mounting plate – Dust cover – Cable tie – Installation instructions	20	R305112
090.5329	<b>Connection Module Cat.5e, 1xRJ45/s, Flap Jack,</b> The module is designed for use with Flap Jack module holders and Flap Jack wall plates. Supplied: – RJ45 Cat.5e connection module, shielded, without mounting plate – Modified EMC cover – Dust cover – Cable tie – Installation instructions	20	R305763

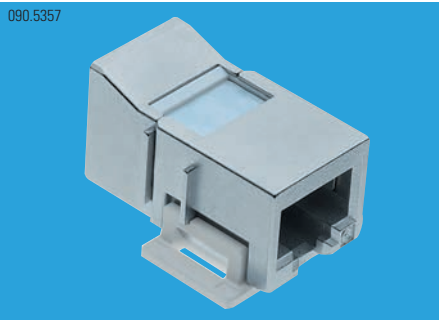
Ordering Information	Description	MOQ	Part Number
020.0717	<b>Features</b> – Cat.3 compliant in accordance with ISO/IEC 11801, EN 50173 and EIA/TIA 568A – Tool-free "EASY Lock" termination technology (IDC) for cables with wire Ø 0.25 mm to 0.65 mm (AWG 30-22). Stranded wires = AWG 26/7 to 24/7. Admissible insulation Ø 0.7 mm to 1.6 mm		
020.0717	<b>Connection Module 10xRJ45/u (4-5, 3-6)</b> Connection module with 10 unshielded RJ45 ports. Tool-free "Easy Lock" termination technique.	1	R35116
020.0717	<b>Connection Module 10xRJ45/u (4-5, 7-8)</b> Category 3 connection module with 10 unshielded RJ45 ports. Tool-free "Easy Lock" termination technique.	1	R301388
020.0719	<b>Concentrator Module IN 8xRJ45/u, OUT 2xRJ45/u</b> With the capacity of concentrating four 2-wire services on one RJ45 port. In combined use with the matching telephony adapters (R35121) all eight conductors can be fully used in generic cabling systems.	1	R35122



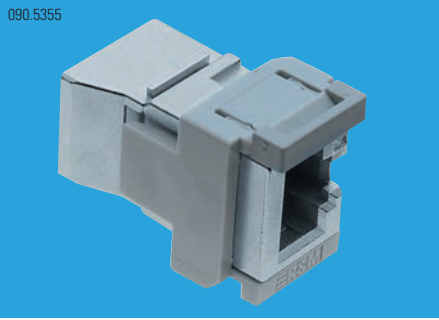


- Features**
- Fulfils all Cat. 6 requirements specified in the relevant cabling standards (ISO/IEC 11801, EN 50173 and TIA/EIA 568B/C)
  - Achieves Class E performance when installed as part of an R&M permanent link
  - Compatible with Cat. 6 standard plugs
  - Fits into all R&Mfreenet patch panels, most R&M outlets and many third party platforms through the use of adapters, e.g. freenet module holder plate, snap-in, Adapter No.1 and keystone
  - Very short design for applications with restricted space

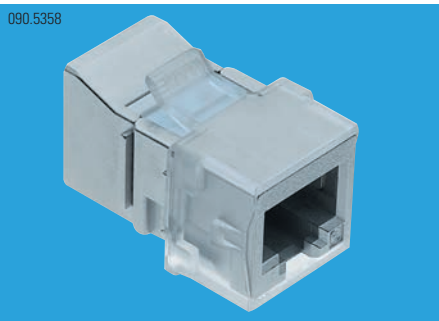
Ordering Information	Description	MOQ	Part Number
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- Coupler Cat.6, RJ45/s**  
Supplied:
- RJ45 Cat.6 coupler, shielded
  - Mounting plate
- 1 R509100



- Coupler Cat.6, RJ45/s, Snap-in**  
Supplied:
- RJ45 Cat.6 coupler, shielded
  - Snap-in adapter
- 1 R509115

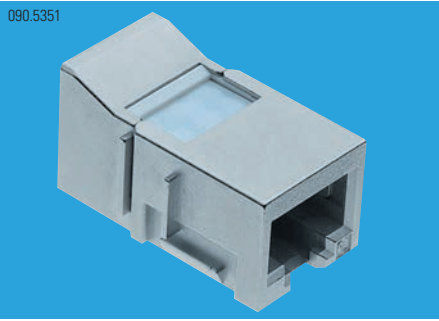


- Coupler Cat.6, RJ45/s, Adapter No.1**  
Supplied:
- RJ45 Cat.6 coupler, shielded
  - Adapter No.1
- 1 R509087



- Coupler Cat.6, RJ45/s, Keystone**  
Supplied:
- RJ45 Cat.6 coupler, shielded
  - Keystone adapter
- 1 R509113

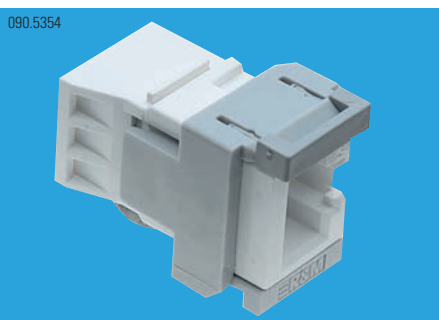
Ordering Information	Description	MOQ	Part Number
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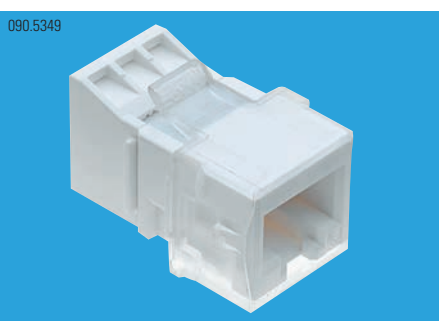
- Coupler Cat.6, RJ45/s, Special**  
Supplied:
- RJ45 Cat.6 coupler, shielded without mounting plate
- 1 R509114



- Coupler Cat.6, RJ45/u**  
Supplied:
- RJ45 Cat.6 coupler, unshielded
  - Mounting plate
- 1 R509088



- Coupler Cat.6, RJ45/u, Snap-in**  
Supplied:
- RJ45 Cat.6 coupler, unshielded
  - Snap-in adapter
- 1 R509091



- Coupler Cat.6, RJ45/u, Adapter No.1**  
Supplied:
- RJ45 Cat.6 coupler, unshielded
  - Adapter No.1
- 1 R509092



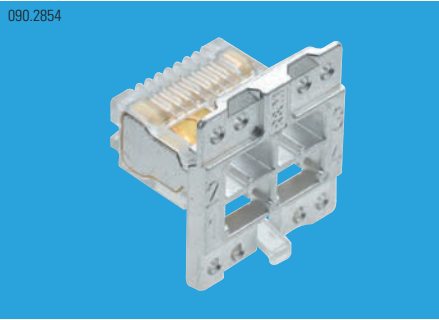
- Coupler Cat.6, RJ45/u, Keystone**  
Supplied:
- RJ45 Cat.6 coupler, unshielded
  - Keystone adapter
- 1 R509089





- Features**
- Maximum use of the horizontal cabling
  - Based on the RJ45 connection system
  - Fully compatible with the R&Mfreenet cabling system
  - Suitable for shielded and unshielded cabling
  - Integral color coding

Ordering Information	Description	MOQ	Part Number
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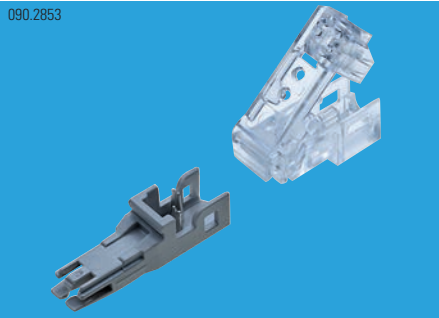


**RMS45 Microsplitter Insert, shielded**  
Matching all R&Mfreenet RJ45 connection modules Cat.5e, Cat.6 and Cat.6A. Employable on the patch panel as well as at the workplace outlet. Allows the cable sharing of up to four services by using RMS45 connectors. Tool-free mounting.  
Supplied:

- RMS45 insert
- Color coding, green and yellow
- Installation instructions

2

R319034

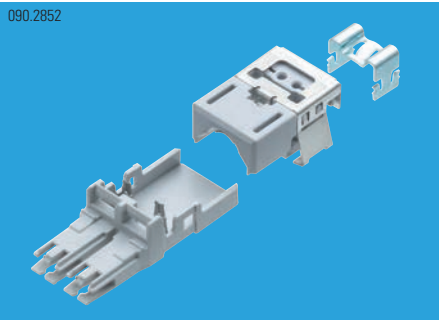


**RMS45 Plug 1-Pair, unshielded**  
Field-terminated 1-pair plug, unshielded. Fast and simple connecting, requiring no special tools.  
Cable information:

- Telephone ribbon cables 2.5x5 mm
- Round cables up to Ø 3.4 mm
- Patch wires 2x0.5 mm
- Wires and strands AWG26-24
- Conductor insulation max. Ø 1.1 mm

10

R319035



**RMS45 Plug 2-Pair, shielded**  
Field-terminated 2-pair plug, shielded. Fast and simple connecting.  
Cable information:

- Round cables Ø 3.2 mm up to Ø 5.5 mm
- Wires and strands AWG26-24
- Conductor insulation max. Ø 1.1 mm

10

R319036



**Adapter Cord 1P, RMS45-RJ11 (3-4),**  
For analog / digital telephones.  
Connection cable: ribbon, black.  
Cable: U/UTP.  
Outer jacket: PVC.

**1.0 m**  
**2.0 m**  
**3.0 m**  
**5.0 m**

10

R319037

10

R319038

10

R319039

10

R319040

Ordering Information	Description	MOQ	Part Number
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**Adapter Cord 1P, RMS45-RJ45 (4-5),**  
Cat.3 adapter cable.  
Connection cable: round, black.  
Cable: U/UTP.  
Outer jacket: PVC.

**1.0 m**  
**2.0 m**  
**3.0 m**  
**5.0 m**

10

R319041

10

R319042

10

R319043

10

R319044



**Adapter Cord 2P, RMS45-RJ45 (4-5 3-6),**  
For ISDN telephones.  
Connection cable: ribbon, black.  
Cable: U/UTP.  
Outer jacket: PVC.

**1.0 m**  
**2.0 m**  
**3.0 m**  
**5.0 m**

10

R319045

10

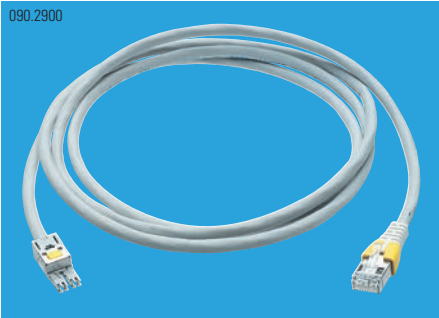
R319046

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R319047

10

R319048



**Adapter Cord Cat.5e, SF/UTP, 2P, LSFRZH, RMS45-RJ45/s (1-2 3-6),**  
Shielded Cat.5e patch cord for Fast Ethernet (100 Base-T).  
Cable: SF/UTP.  
Outer jacket: LSFRZH.  
Color coding: yellow, TIA/EIA 568A.

**1.0 m**  
**2.0 m**  
**3.0 m**  
**5.0 m**

10

R319049

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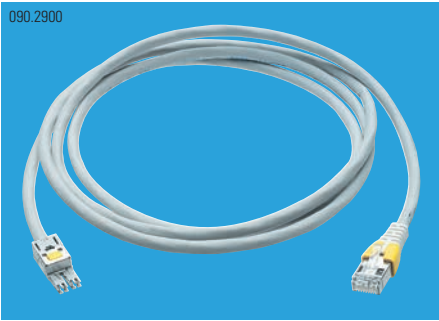
R319050

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R319051

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R319052



**Adapter Cord Cat.5e, U/UTP, 2P, PVC, RMS45-RJ45/u (1-2 3-6),**  
Unshielded Cat.5e patch cord for Fast Ethernet (100 Base-T).  
Cable: U/UTP.  
Outer jacket: PVC.  
Color coding: yellow, TIA/EIA 568A.

**1.0 m**  
**2.0 m**  
**3.0 m**  
**5.0 m**

10

R319053

10

R319054

10

R319055

10

R319056



**Balun Connection Cable 2P, RMS45-Coax,**  
This shielded CATV Balun cable allows the adaptation of coaxial 75 Ohm signals (CATV) to 100 Ohm twisted-pair cables.

**2.5 m**  
**5.0 m**

1

R319065

1

R319066





- Features**
- First tool-free, field-terminated Cat.5e/RJ45 connector
  - Wide range of applications, dependable solid construction, highest Swiss quality
  - Accepts unshielded (U/UTP) and shielded (S/FTP) cables up to 8 mm in diameter, and wires or strands up to AWG 26 to AWG 22
  - Long-term stability, vibration resistance, strain relief and the possibility of repeated termination provided by IDC conductor contacting plus quick mounting technique
  - Cable shield EMC protection > 180°
  - Optical coding with color coding clips

Ordering Information	Description	MOQ	Part Number
	<b>FM45 Connector IP20,</b> Field-terminated RJ45 connector with housing. Color housing: gray (RAL 7042). Color termination block: gray (RAL 7035). Supplied: <ul style="list-style-type: none"><li>– RJ45 connector kit</li><li>– Housing IP20</li><li>– Instruction manual</li></ul>		
	<b>4P, TIA 568A (AWG26-23)</b>	10	R312231
	<b>4P, TIA 568B (AWG26-23)</b>	10	R320374
	<b>2P, PNO (AWG26-23)</b>	10	R320372
	<b>FM45 Connector IP20,</b> Field-terminated RJ45 connector with housing. Color housing: gray (RAL 7042). Color termination block: white (RAL 9010). Supplied: <ul style="list-style-type: none"><li>– RJ45 connector kit</li><li>– Housing IP20</li><li>– Instruction manual</li></ul>		
	<b>4P, TIA 568A (AWG23-22)</b>	10	R510667
	<b>FM45 Connector IP20,</b> Field-terminated RJ45 connector, unshielded with housing, angled. Color housing: gray (RAL 7042). Color termination block: gray (RAL 7035). Supplied: <ul style="list-style-type: none"><li>– RJ45 connector kit</li><li>– Housing IP20</li><li>– Instruction manual</li></ul>		
	<b>4P, TIA 568A (AWG26-23), angled</b>	10	R803498
	<b>4P, TIA 568B (AWG26-23), angled</b>	10	R803499
	<b>FM45 Connector IP67, type 06,</b> Suitable for shielded and unshielded cables. No tools required for connection of strands and solid wire (AWG 26 - 23). Supplied: <ul style="list-style-type: none"><li>– Nut</li><li>– Strain relief element</li><li>– Connector housing IP67, type 06</li><li>– FM45 connector, 4P, TIA 568A, Cat.5e</li><li>– IP67 protection cap</li><li>– Instruction manual</li></ul>		
	<b>4P, TIA 568A (AWG26-23)</b>	10	R314686



The RJ45 IP65/IP67 complies with IAONA requirements for heavy duty environments. IAONA stands for international alliance of manufacturers and operators of automation systems, and among other things, they set up the industrial Ethernet standards. By IAONA definition heavy duty means demanding production environments as defined in protection index IP67 and standard IEC 60529.





Ordering Information	Description	MOQ	Part Number
	<b>FM45 Connector Body,</b> Field-terminated RJ45 connector for all housings FM45. Supplied: <ul style="list-style-type: none"><li>– RJ45 connector kit</li><li>– Instruction manual</li></ul>		
	<b>2P, PNO (AWG23-22)</b>	10	R510107
	<b>2P, PNO (AWG26-23)</b>	10	R320370
	<b>4P, TIA 568A (AWG23-22)</b>	10	R510108
	<b>4P, TIA 568A (AWG26-23)</b>	10	R320375
	<b>4P, TIA 568B (AWG23-22)</b>	10	R510109
	<b>4P, TIA 568B (AWG26-23)</b>	10	R320376
	<b>FM45 Connector Housing IP67, Type 06, plastic</b> Connector housing, empty, to be fitted with shielded or unshielded FM45 plug connectors. Housing material: plastic (PA). Color: gray.		
		10	R320691
	<b>Mounting Frame IP67, Type 06, plastic</b> Compatible with SC-RJ and RJ45 one-channel module. Supplied: <ul style="list-style-type: none"><li>– Mounting frame</li><li>– Gasket</li><li>– 4 screws M3x11.5</li><li>– 4 screw KA30x10</li></ul>		
		1	R309588
	<b>Protective Cover IP67, type 06, plastic</b> Cover protecting the contact insert in the IP67 adapter frame type 06.		
		5	R309589



Installation Cables  
Cat.7 and Cat.7A  
Real10

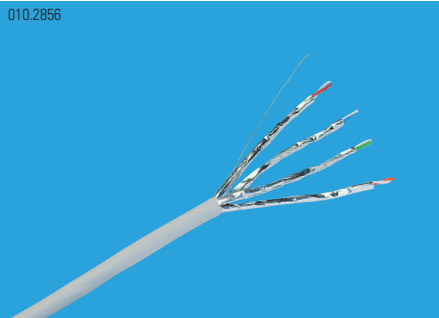


- Features**
- 100 Ohm installation cable
  - Suitable for voice, video and data transmission
  - For frequencies from 650 MHz up to 1500 MHz

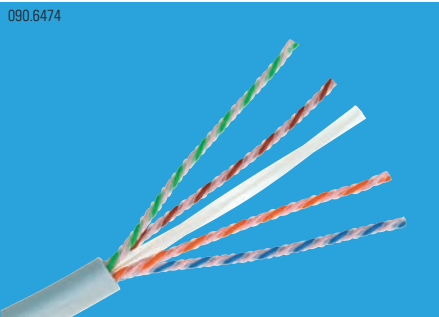
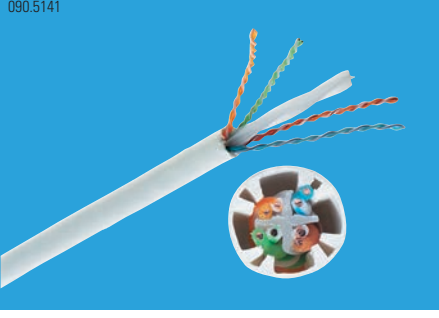
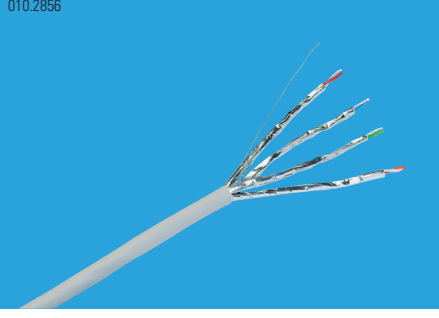
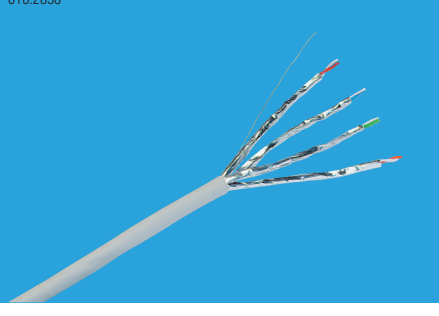
Ordering Information	Description	MOQ	Part Number
	<b>Installation Cable Real10 Cat.7A, S/FTP,</b> Real10 Cat.7A, S/FTP cable. Foil and tin-plated copper braid shielding. 100 Ohm impedance. Data transmission frequency of up to 1500 MHz. <b>4P, 1500 MHz, LSFRZH, 500 m</b>	500	R507032
	<b>Installation Cable Real10 Cat.7A, S/FTP,</b> Real10 Cat.7A, S/FTP cable. Foil and tin-plated copper braid shielding. 100 Ohm impedance. Data transmission frequency of up to 1200 MHz. <b>4P, 1200 MHz, AWG23, LSZH, 500 m</b> <b>4P, 1200 MHz, AWG23, LSZH, 1000 m</b> <b>4P, 1200 MHz, AWG23, LSFRZH, 500 m</b> <b>4P, 1200 MHz, AWG22, LSFRZH, 500 m</b>	500 1000 500 500	R809800 R809802 R319522 R306257
	<b>Installation Cable Real10 Cat.7, S/FTP,</b> Real10 Cat.7, S/FTP cable. Foil and tin-plated copper braid shielding. 100 Ohm impedance. Data transmission frequency of up to 1000 MHz. <b>4P, 1000 MHz, LSZH, 500 m</b> <b>4P, 1000 MHz, LSFRZH, 500 m</b> <b>4P, 1000 MHz, LSFRZH, 1000 m</b> <b>4P, 1000 MHz, LSFRZH, CA+, 500 m</b>	500 500 1000 500	R35257 R809799 R809801 R35060
	<b>Installation Cable Real10 Cat.7, F/FTP,</b> Real10 Cat.7, F/FTP cable. Foil-shielded pairs. 100 Ohm impedance. Data transmission frequencies of up to 650 MHz. <b>4P, 650 MHz, LSZH, 500 m</b>	500	R320249

كابلات توصيل  
Cat.7A و Cat.7  
طراز  
Real10

Installation Cables  
Cat.6A  
Real10



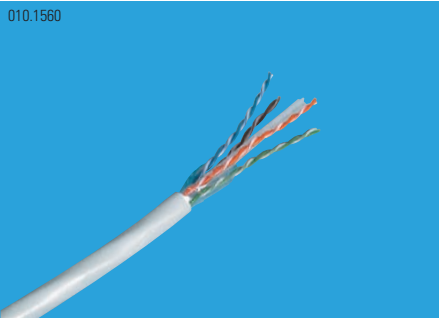
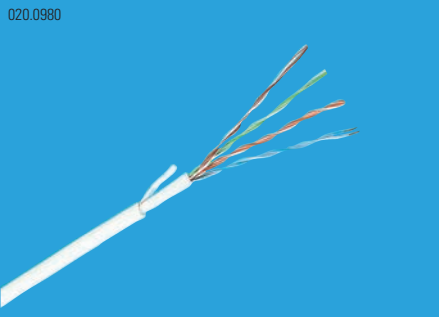
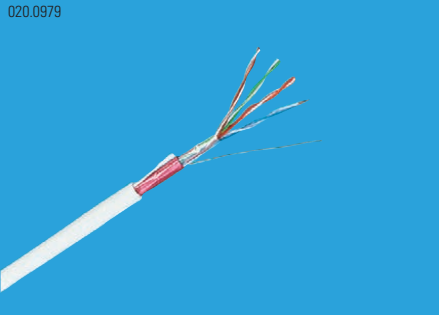
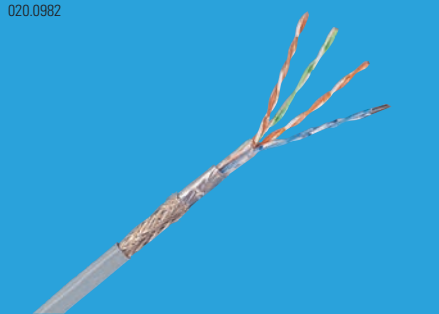

- Features**
- 100 Ohm installation cable
  - Suitable for voice, video and data transmission
  - Cat.6A is suitable for transmission frequencies of up to 650 MHz and complies with the 10GBase-T requirements of IEEE802.3an
  - Cat.6 is suitable for transmission frequencies of up to 450 MHz
  - Outer sheath PVC (CMR UL listed), LSZH, LSFRZH compliant with IEC 60332-1 / IEC 60754-2 / IEC 61034.
  - For special applications, outer sheath available in Plenum rated (CMP) compliant with UL910 / NFPA 262

Ordering Information	Description	MOQ	Part Number
	<b>Installation Cable Real10 Cat.6A, U/UTP,</b> Low diameter solid wire installation cable Real10 U/UTP Cat.6A. 100 Ohm impedance. With non continuous Alien X-Talk suppression tape (WARP, WAve Reduction Pattern) for a crosstalk protection between adjacent cables with a minimal space requirement. Data transmission frequencies of up to 650 MHz. <b>4P, 650 MHz, PVC, Ø 7.0mm, WARP, 500 m</b> <b>4P, 650 MHz, LSZH, Ø 7.0mm, WARP, 500 m</b>	500 500	R804268 R804269
	<b>Installation Cable Real10 Cat.6A, U/UTP,</b> Real10 Cat.6A, U/UTP cable. 100 Ohm impedance. Data transmission frequencies of up to 650 MHz. <b>4P, 650 MHz, PVC, Ø 9.0mm, 305 m</b> <b>4P, 650 MHz, LSZH, Ø 9.0mm, 305 m</b> <b>4P, 650 MHz, CMP, Ø 8.1mm, 305 m</b> <b>4P, 650 MHz, LSZH, Ø 7.2mm, 500 m</b> <b>4P, 650 MHz, LSZH, Ø 8.8mm 500 m</b>	305 305 305 500 500	R504236 R504252 R805816 R804284 R808400
	<b>Installation Cable Real10 Cat.6A, F/UTP,</b> Installation cable with overall metal foil for cost effective, shielded generic cabling systems. Real10 Cat.6A, F/UTP cable. 100 Ohm impedance. Data transmission frequencies of up to 500 MHz. <b>4P, 500 MHz, LSZH, 500 m</b>	500	R806969
	<b>Installation Cable Real10 Cat.6A, U/FTP,</b> Real10 Cat.6A, U/FTP cable. Foil-shielded pairs. 100 Ohm impedance. Data transmission frequencies of up to 650 MHz. <b>4P, 650 MHz, LSZH, 500 m</b> <b>4P, 650 MHz, CMP, Ø 7.4mm 305 m</b>	500 305	R308247 R805817

كابلات توصيل  
Cat.6A  
طراز  
Real10

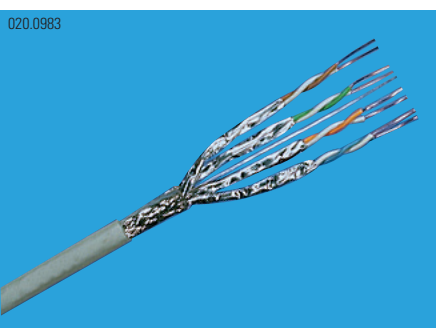





Ordering Information	Description	MOQ	Part Number
<div>020.0983</div> 	<b>Installation Cable Real10 Cat.6A, S/FTP,</b> Real10 Cat.6A, S/FTP cable. Foil and tin-plated copper braid shielding of pairs. 100 Ohm impedance. Data transmission frequencies of up to 650 MHz. <b>4P, 650 MHz, LSZH, 500 m</b>	500	R305649
<div>090.2216</div> 	<b>Installation Cable Real10 Cat.6, U/UTP,</b> Real10 Cat.6, U/UTP cable. 100 Ohm impedance. Data transmission frequencies of up to 650 MHz. <b>4P, 650 MHz, LSZH, 500 m</b>	500	R312808
<div>010.1560</div> 	<b>Installation Cable Cat.6, U/UTP,</b> Cat.6, U/UTP cable. 100 Ohm impedance. Data transmission frequencies of up to 450 MHz. <b>4P, 450 MHz, PVC, 500 m</b> <b>4P, 450 MHz, LSZH, 500 m</b> <b>4P, 450 MHz, LSZH, 1000 m</b>	500 500 1000	R35056 R35057 R305283
<div>020.0979</div> 	<b>Installation Cable Cat.6, F/UTP,</b> Cat.6, F/UTP cable. 100 Ohm impedance. Data transmission frequencies of up to 450 MHz. <b>4P, 450 MHz, LSZH, 500 m</b>	500	R314933
<div>090.5235</div> 	<b>Installation Cable Residential Class E, U/UTP</b> Application specific installation cable for residential areas with reduced permanent link lengths up to 50 m suitable for data rates up to 1 Gbps. Class E, U/UTP, AWG26 cable. 100 Ohm impedance. Data transmission frequencies of up to 250 MHz. <b>4P, 250 MHz, LSZH, Ø 4.5mm, 305 m</b>	305	R809798

Ordering Information	Description	MOQ	Part Number
<div>010.1560</div> 	<b>Installation Cable Cat.6, U/UTP,</b> Low cost installation cable for generic cabling systems. Cat.6, U/UTP, AWG24 cable. 100 Ohm impedance. Data transmission frequencies of up to 250 MHz. <b>4P, 250 MHz, PVC, 305 m</b> <b>4P, 250 MHz, LSZH, 305 m</b>	305 305	R809797 R809796
<div>010.1560</div> 	<b>Installation Cable Cat.6, U/UTP,</b> Cat.6, U/UTP, AWG23 cable. 100 Ohm impedance. Data transmission frequencies of up to 450 MHz. <b>4P, 450 MHz, AWG23, CMP, 5.5mm, 305 m</b>	305	R805815
<div>020.0980</div> 	<b>Installation Cable Cat.5e, U/UTP,</b> Cat.5e, U/UTP cable. 100 Ohm impedance. Data transmission frequencies of up to 200 MHz. <b>4P, 200 MHz, PVC, 500 m</b> <b>4P, 200 MHz, LSZH, 500 m</b> <b>4P, 200 MHz, PVC, 305 m</b> <b>4P, 200 MHz, LSZH, 305 m</b> <b>4P, 200 MHz, CMP, 305 m</b>	500 500 305 305 305	R35044 R35045 R35291 R35292 R805814
<div>020.0979</div> 	<b>Installation Cable Cat.5e, F/UTP,</b> Cat.5e, F/UTP cable. Aluminum foil shielding. Tin-plated copper drain wire. 100 Ohm impedance. Data transmission frequencies of up to 200 MHz. <b>4P, 200 MHz, PVC, 500 m</b> <b>4P, 200 MHz, LSZH, 500 m</b> <b>4P, 200 MHz, LSFRZH, 500 m</b> <b>4P, 200 MHz, PVC, 305 m</b> <b>4P, 200 MHz, LSZH, 305 m</b>	500 500 500 305 305	R35048 R35049 R302039 R300317 R300316
<div>020.0982</div> 	<b>Installation Cable Cat.5e, SF/UTP,</b> Cat.5e, SF/UTP cable. Aluminum foil and tin-coated copper braid shielding. 100 Ohm impedance. Data transmission frequencies of up to 200 MHz. <b>4P, 200 MHz, PVC, 500 m</b> <b>4P, 200 MHz, LSZH, 500 m</b> <b>4P, 200 MHz, LSFRZH, 500 m</b>	500 500 500	R35052 R302089 R35053



Ordering Information	Description	MOQ	Part Number
	<b>Multipair Installation Cable Cat.5, U/UTP,</b> Recommended applications: IEEE 802.3: 10 Base-T, 100 Base-T, ISDN, xDSL and IEEE 802.5 16 MB: ISDN, TPDDI, ATM 155 Mbit/s. Standards: EN 50173, ISO/IEC 11801. Features: Multipair, Cat.5, U/UTP cable. 100 Ohm impedance. Data transmission frequencies of up to 100 MHz. <b>25P, LSZH, 300 m</b>	300	R310918
	<b>50P, LSZH, 300 m</b>	300	R310916
	<b>100P, LSZH, 300 m</b>	300	R310917
	<b>Multipair Installation Cable Cat.5, F/UTP,</b> Recommended applications: IEEE 802.3: 10 Base-T, 100 Base-T, ISDN, xDSL and IEEE 802.5 16 MB: ISDN, TPDDI, ATM 155 Mbit/s. Standards: EN50173, ISO/IEC 11801. Features: Multipair, Cat.5, F/UTP cable. 100 Ohm impedance. Data transmission frequencies of up to 100 MHz. <b>25P, LSZH, 300 m</b>	300	R310908
	<b>50P, LSZH, 300 m</b>	300	R310920
	<b>100P, LSZH, 300 m</b>	300	R310921
	<b>Multipair Installation Cable Cat.3, U/UTP,</b> Multipair, Cat 3, U/UTP cable. 100 Ohm impedance. Data transmission frequency of up to 16 MHz. <b>25P, LSZH, 300 m</b>	300	R311322
	<b>50P, LSZH, 300 m</b>	300	R311319
	<b>100P, LSZH, 300 m</b>	300	R311320
	<b>Multipair Installation Cable Cat.3, F/UTP,</b> Multipair, Cat.5, F/UTP cable. 100 Ohm impedance. Data transmission frequencies of up to 16 MHz. <b>25P, LSZH, 300 m</b>	300	R311321
	<b>50P, LSZH, 300 m</b>	300	R311323
	<b>100P, LSZH, 300 m</b>	300	R311324

	<b>Features</b> <ul style="list-style-type: none"><li>– Industrial installation cables for extreme environmental conditions</li><li>– Water and oil repellent</li><li>– Suitable for indoor and outdoor installations</li></ul>		
Ordering Information	Description	MOQ	Part Number
	<b>Industry Cable Cat.7, S/FTP,</b> Standards: EIA/TIA 568-C.2, ISO/IEC 11801 ed. 2.2, IEC 61156-5, EN 50173, EN 50188-4-1. Fire classification: IEC 60332-1, IEC 60754-2, IEC 61034. Temperature range: –20°C to +60°C. Halogen-free and flame-retardant plus water-tight layer jacket. Color: black. Cat.7, FL.RET cable. Foil and tin-plated copper braid shielding. 100 Ohm impedance. Data transmission frequency up to 900 MHz. <b>4P, 900 MHz, FL.RET, 100 m</b> <b>4P, 900 MHz, FL.RET, 500 m</b>	100 500	R313685 R313683
	<b>Industry Cable Cat.7, S/FTP,</b> Standards: EN 50173-1, ISO/IEC 11801, EN 50288-4-11, IEC 61156-5. Fire classification: IEC 61034, IEC 60754-2, IEC 60332-3-24. Chemical resistance: standard IIR 902, 7 days/23°C, 4 hours/70°C in mineral oil and standard IIR 903, 7 days/23°C, 4 hours/70°C in diesel. Temperature range: –40°C to +85°C. Color: RAL 7035. Cat.7, S/FTP cable. Foil and tin-plated copper braid shielding. 100 Ohm impedance. Data transmission frequency up to 900 MHz. <b>4P, 900 MHz, LSFRZH, 500 m</b>	500	R802154
	<b>Industry Cable Cat.5e, S/FTP,</b> Standards: EN 50173-1, ISO/IEC 11801, EN 50288-2-1, IEC 61156-5. Fire classification: IEC 61034, IEC 60754-2, IEC 60332-3-24. Chemical resistance: standard IIR 902, 7 days/23°C, 4 hours/70°C in mineral oil and standard IIR 903, 7 days/23°C, 4 hours/70°C in diesel. Temperature range: –40°C to +85°C. Color: RAL 7035. Cat.5e, S/FTP cable. Foil and tin-plated copper braid shielding. 100 Ohm impedance. Data transmission frequency up to 200 MHz. <b>4P, 200 MHz, LSFRZH, 500 m</b>	500	R309319



Patch Panels  
1U, 16-Port

لوحات التجميع  
ارتفاع 1 وحدة. 16 مخرج



- Features**
- Modular design with the capacity of holding 16 x shielded or unshielded single RJ45 connection modules
  - Snap-in jumpering brackets
  - Integrated cable tie shelf
  - Shielded versions come with a complete and integrated grounding system
  - Suitable for the Data Safe Lock coding system, protecting the panel against electronic damage or interferences in network operation
  - Labeling window including exchangeable labeling strips
  - Individual labeling with A4 labeling sheets

Ordering Information	Description	MOQ	Part Number
090.5362	<b>19" 1U Patch Panel 16xRJ45/s, Cat.6A ISO,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 16-port patch panel, empty, shielded</li><li>– 16 Cat.6A ISO connection modules , RJ45/s incl. EMC covers and dust covers</li><li>– 19" mounting kit</li><li>– 3 jumpering brackets</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>fully populated</b>	1	R509880
090.5363	<b>19" 1U Patch Panel 16xRJ45/u, Cat.6A ISO,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 16-port patch panel, empty, unshielded</li><li>– 16 Cat.6A ISO connection modules, RJ45/u incl. dust covers</li><li>– 19" mounting kit</li><li>– 3 jumpering brackets</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>fully populated</b>	1	R509881
010.2175	<b>19" 1U Patch Panel 16xRJ45/s, Real10 Cat.6,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 16-port patch panel, empty, shielded</li><li>– 16 Real10 Cat.6 connection modules, RJ45/s incl. EMC covers and dust covers</li><li>– 19" mounting kit</li><li>– 3 jumpering brackets</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>fully populated</b>	1	R305887
090.2314	<b>19" 1U Patch Panel 16xRJ45/u, Real10 Cat.6,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 16-port patch panel, empty, unshielded</li><li>– 16 Real10 Cat.6 connection modules, RJ45/u incl. WARP covers and dust covers</li><li>– 19" mounting kit</li><li>– 3 jumpering brackets</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>fully populated</b>	1	R313086

Patch Panels  
1U, 16-Port

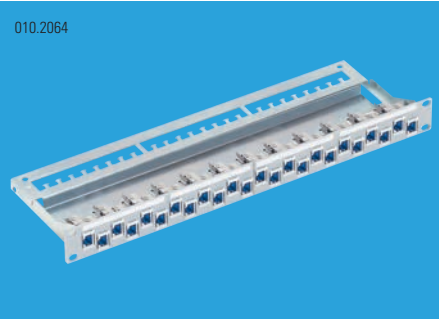
لوحات التجميع  
ارتفاع 1 وحدة. 16 مخرج

Ordering Information	Description	MOQ	Part Number
010.2178	<b>19" 1U Patch Panel 16xRJ45/u, Cat.6,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 16-port patch panel, empty, unshielded</li><li>– 16 Cat.6 connection modules, RJ45/u incl. dust covers</li><li>– 19" mounting kit</li><li>– 3 jumpering brackets</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>fully populated</b>	1	R305888
090.5334	<b>19" 1U Patch Panel 16xRJ45/s, Cat.5e,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 16-port patch panel, empty, shielded</li><li>– 16 Cat.5e connection modules, RJ45/s incl. EMC covers and dust covers</li><li>– 19" mounting kit</li><li>– 3 jumpering brackets</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>fully populated</b>	1	R305885
090.5333	<b>19" 1U Patch Panel 16xRJ45/u, Cat.5e,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 16-port patch panel, empty, unshielded</li><li>– 16 Cat.5e connection modules, RJ45/u incl. dust covers</li><li>– 19" mounting kit</li><li>– 3 jumpering brackets</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>fully populated</b>	1	R305886
010.2179	<b>19" 1U Patch Panel 16-Port/s,</b> With a capacity for 16 shielded RJ45 connection modules. Supplied: <ul style="list-style-type: none"><li>– 19" 1U 16-port patch panel, empty, shielded</li><li>– 19" mounting kit</li><li>– 3 jumpering brackets</li><li>– 4 labeling strips</li><li>– Installation instructions</li></ul> <b>empty</b>	1	R305889
010.2180	<b>19" 1U Patch Panel 16-Port/u,</b> With a capacity for 16 unshielded RJ45 connection modules or 4 FiberModuls 1U. Supplied: <ul style="list-style-type: none"><li>– 19" 1U 16-port patch panel, empty, unshielded</li><li>– 19" mounting kit</li><li>– 3 jumpering brackets</li><li>– 4 labeling strips</li><li>– Installation instructions</li></ul> <b>empty</b>	1	R305890



Patch Panels  
1U, 24-Port

لوحات التجميع  
ارتفاع 1 وحدة, 24 مخرج



- Features**
- The high packing density results in a capacity of 24 shielded or unshielded RJ45 connections
  - Every module is individually terminated
  - The snap-in adapter is mechanically secured with a plastic wedge
  - 8-color coding system with plastic wedges
  - Integrated cable tie shelf
  - Direct grounding concept via metal patch panel
  - Protective conductor terminal optionally available

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U Patch Panel 24xRJ45/s, Cat.6A ISO,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf</li><li>– 24 Cat.6A ISO connection modules, RJ45/s incl. EMC covers and dust covers</li><li>– 19" mounting kit</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>gray, fully populated</b>	1	R509882
	<b>black, fully populated</b>	1	R514693
	<b>19" 1U Patch Panel 24xRJ45/u, Cat.6A ISO,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf</li><li>– 24 Cat.6A ISO connection modules, RJ45/u incl. dust covers</li><li>– 19" mounting kit</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>gray, fully populated</b>	1	R509883
	<b>black, fully populated</b>	1	R514694
	<b>19" 1U Patch Panel 24xRJ45/s, Real10 Cat.6,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf</li><li>– 24 Real10 Cat.6 connection modules, RJ45/s incl. EMC covers and dust covers</li><li>– 19" mounting kit</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>gray, fully populated</b>	1	R305120
	<b>black, fully populated</b>	1	R514695

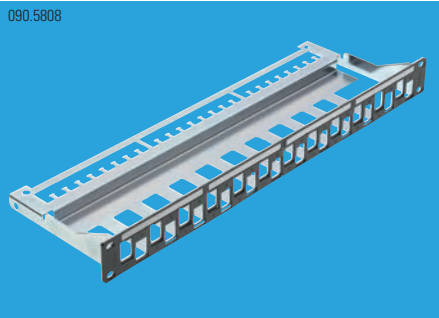
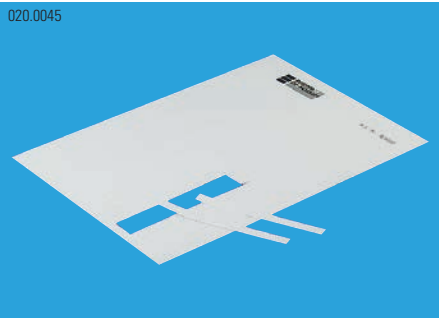

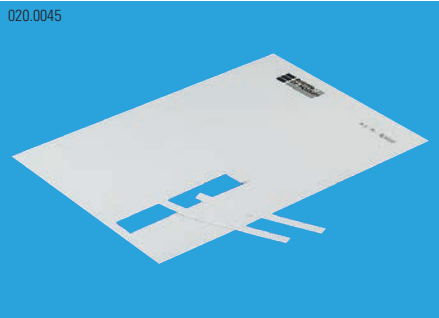

Patch Panels  
1U, 24-Port

لوحات التجميع  
ارتفاع 1 وحدة, 24 مخرج

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U Patch Panel 24xRJ45/u, Real10 Cat.6,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf</li><li>– 24 Real10 Cat.6 connection modules, RJ45/u incl. WARP covers and dust covers</li><li>– 19" mounting kit</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>gray, fully populated</b>	1	R313087
	<b>19" 1U Patch Panel 24xRJ45/u, Cat.6,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf</li><li>– 24 Cat.6 connection modules, RJ45/u incl. dust covers</li><li>– 19" mounting kit</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>gray, fully populated</b>	1	R305117
	<b>black, fully populated</b>	1	R514696
	<b>19" 1U Patch Panel 24xRJ45/s, Cat.5e,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf</li><li>– 24 Cat.5e connection modules, RJ45/s incl. EMC covers and dust cover</li><li>– 19" mounting kit</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>gray, fully populated</b>	1	R305121
	<b>19" 1U Patch Panel 24xRJ45/u, Cat.5e,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf</li><li>– 24 Cat.5e connection modules, RJ45/u incl. dust covers</li><li>– 19" mounting kit</li><li>– 4 labeling strips</li><li>– Cable ties</li><li>– Installation instructions</li></ul> <b>gray, fully populated</b>	1	R305118
	<b>19" 1U Patch Panel 24-Port,</b> With a capacity for 24 snap-in connection modules shielded/unshielded or FO adapters snap-in frame. Supplied: <ul style="list-style-type: none"><li>– 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf</li><li>– 19" mounting kit</li><li>– 4 labeling strips</li><li>– Installation instructions</li></ul> <b>gray, empty</b>	1	R305119

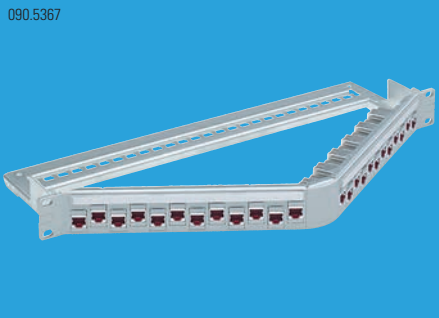
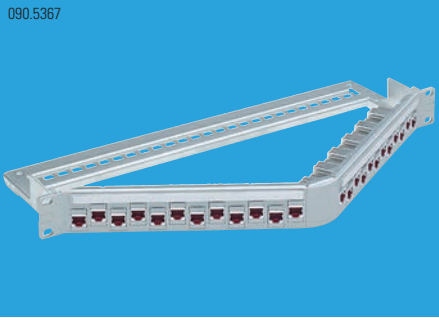
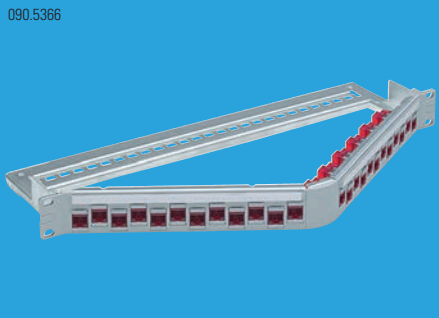
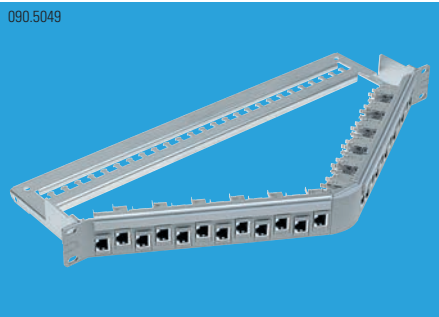
Patch Panels  
1U, 24-Port

لوحات التجميع  
ارتفاع 1 وحدة, 24 مخرج

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U Patch Panel 24-Port,</b> With a capacity for 24 snap-in connection modules shielded or unshielded. Supplied: – 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf – 19" mounting kit – 4 labeling strips – Installation instructions <b>black, empty</b>	1	R511996
	<b>Labeling Sheet 24-Port Patch Panel</b> Suitable for laser printers. Material: paper, white, perforated. Supplied: – A4 sheet with 54 strips (neutral)   Get a free MS Word template at our website ( <a href="http://www.rdm.com/universe">www.rdm.com/universe</a> ) for fast and professional labeling.	10	R305090
	<b>Labeling Sheet to 16-Port Patch Panel</b> Suitable for laser printers. Material: paper, white, perforated. Supplied: – A4 sheet with 48 strips (neutral).   Get a free MS Word template at our website ( <a href="http://www.rdm.com/universe">www.rdm.com/universe</a> ) for fast and professional labeling.	10	R306039

Patch Panels  
1U, 24-Port, angled

لوحات التجميع  
ارتفاع 1 وحدة, 24 مخرج. بشكل زاوية

Ordering Information	Description	MOQ	Part Number
			
	<b>19" 1U Angled Patch Panel 24xRJ45/s, Cat.6A ISO,</b> Supplied: – 19" 1U 24-port angled, metal patch panel, empty, integrated cable tie shelf – 24 Cat.6A ISO connection modules, RJ45/s incl. EMC covers and dust covers – 19" mounting kit – Labeling kit – Cable ties – Installation instructions <b>gray, fully populated</b> <b>black, fully populated</b>	1 1	R509884 R803922
	<b>19" 1U Angled Patch Panel 24xRJ45/u, Cat.6A ISO,</b> Supplied: – 19" 1U 24-port angled, metal patch panel, empty, integrated cable tie shelf – 24 Cat.6A ISO connection modules, RJ45/u incl. dust covers – 19" mounting kit – Labeling kit – Cable ties – Installation instructions <b>gray, fully populated</b> <b>black, fully populated</b>	1 1	R509885 R803923
	<b>19" 1U Angled Patch Panel 24xRJ45/s, Real10 Cat.6,</b> Supplied: – 19" 1U 24-port angled, metal patch panel, empty, integrated cable tie shelf – 24 Real10 Cat.6 connection modules, RJ45/s incl. EMC covers and dust covers – 19" mounting kit – Labeling kit – Cable ties – Installation instructions <b>gray, fully populated</b> <b>black, fully populated</b>	1 1	R500539 R803924



Patch Panels  
1U, 24-Port, angled

لوحات التجميع  
ارتفاع 1 وحدة، 24 مخرج. بشكل زاوية

Ordering Information	Description	MOQ	Part Number
090.5050	<b>19" 1U Angled Patch Panel 24xRJ45/u, Real10 Cat.6,</b> Supplied: – 19" 1U 24-port angled, metal patch panel, empty, integrated cable tie shelf – 24 Real10 Cat.6 connection modules, RJ45/u incl. WARP covers and dust covers – 19" mounting kit – Labeling kit – Cable ties – Installation instructions <b>gray, fully populated</b>	1	R500536
090.5048	<b>19" 1U Angled Patch Panel 24xRJ45/u, Cat.6,</b> Supplied: – 19" 1U 24-port angled, metal patch panel, empty, integrated cable tie shelf – 24 Cat.6 connection modules, RJ45/u incl. dust covers – 19" mounting kit – Labeling kit – Cable ties – Installation instructions <b>gray, fully populated</b> <b>black, fully populated</b>	1 1	R500532 R803925
090.5342	<b>19" 1U Angled Patch Panel 24xRJ45/s, Cat.5e,</b> Supplied: – 19" 1U 24-port angled, metal patch panel, empty, integrated cable tie shelf – 24 Cat.5e connection modules, RJ45/s incl. EMC covers and dust covers – 19" mounting kit – Labeling kit – Cable ties – Installation instructions <b>gray, fully populated</b>	1	R500524
090.5341	<b>19" 1U Angled Patch Panel 24xRJ45/u, Cat.5e,</b> Supplied: – 19" 1U 24-port angled, metal patch panel, empty, integrated cable tie shelf – 24 Cat.5e connection modules, RJ45/u incl. dust covers – 19" mounting kit – Labeling kit – Cable ties – Installation instructions <b>gray, fully populated</b>	1	R500520

Patch Panels  
1U, 24-Port, angled

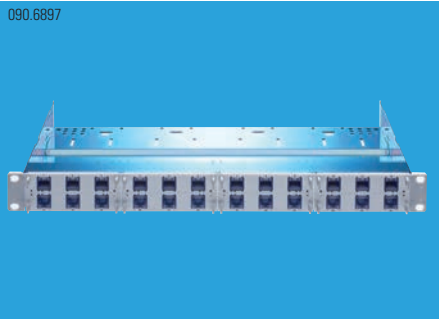
لوحات التجميع  
ارتفاع 1 وحدة، 24 مخرج. بشكل زاوية

Ordering Information	Description	MOQ	Part Number
090.5051	<b>19" 1U Angled Patch Panel 24-Port,</b> With a capacity of up to 24 Snap-in connection modules shielded or unshielded. Supplied: – 19" 1U 24-port angled, metal patch panel, empty, integrated cable tie shelf – 19" mounting kit – Labeling kit – Installation instructions <b>gray, empty</b> <b>black, empty</b>	1 1	R506796 R511997
090.5054	<b>19" 1U Angled Patch Panel, Cover</b> Protection against external mechanical factors. Mounted and removed without tools.	1	R502913









Patch Panels  
1U, 48-Port, High Density

لوحات التجميع  
ارتفاع 1 وحدة، 48 مخرج. عالية الكثافة





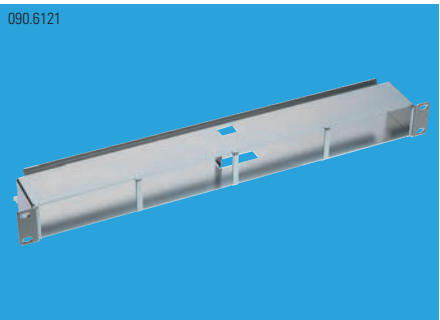
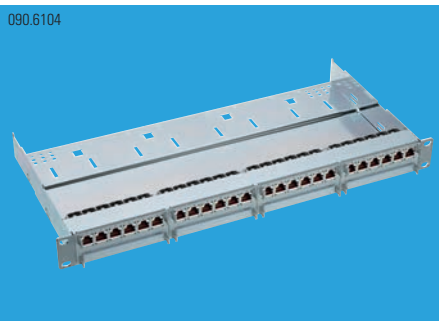

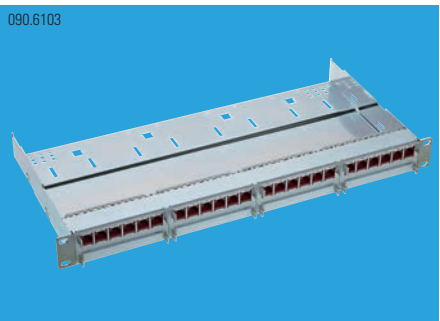

- Features**
- Ultra-high density patch panel enables up to 48-ports in 1U 19" format
  - Modular design for full flexibility: Cat. 6A ISO, Cat.6 and Cat.5e shielded/unshielded
  - With cable tie shelf for stabile and reliable cable management
  - Without cable tie shelf for space critical applications
  - Support for High Density Security System, Levels 1 and 3
  - Shielded version includes complete integrated grounding system
  - Ample labelling options despite limited space
  - Stable, robust design with optimum handling
  - Available in gray and black colors

 Suitabel for R&MinteliPhy.

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U HD Basic Patch Panel 24xRJ45/s,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U HD Basic patch panel</li><li>– 4 6-port/s connection module holders HD</li><li>– Grounding system</li><li>– 24 Cat.6A ISO connection modules, RJ45/s incl. EMC covers and dust covers</li><li>– 19" mounting kit</li><li>– Cable ties</li><li>– Installation instructions</li></ul>		
	<b>Cat.6A ISO, gray, fully populated</b>	1	R512424
	<b>Real10 Cat.6, gray, fully populated</b>	1	R809213
	<b>Cat.5e, gray, fully populated</b>	1	R809209
 Suitabel for R&MinteliPhy.			
	<b>19" 1U HD Basic Patch Panel 24xRJ45/u,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U HD Basic patch panel</li><li>– 4 6-port/u connection module holders HD</li><li>– 24 connection modules RJ45/u incl. dust covers</li><li>– 19" mounting kit</li><li>– Cable ties</li><li>– Installation instructions</li></ul>		
	<b>Cat.6A ISO, gray, fully populated</b>	1	R512425
	<b>Cat.6, gray, fully populated</b>	1	R809214
	<b>Cat.5e, gray, fully populated</b>	1	R809210
 Suitabel for R&MinteliPhy.			
	<b>19" 1U HD Basic Patch Panel 48xRJ45/s,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U HD Basic patch panel</li><li>– 4 12-port/s connection module holders HD</li><li>– Grounding system</li><li>– 48 connection modules RJ45/s incl. EMC covers and dust covers</li><li>– 19" mounting kit</li><li>– Cable ties</li><li>– Installation instructions</li></ul>		
	<b>Cat.6A ISO, gray, fully populated</b>	1	R512422
	 Suitabel for R&MinteliPhy.		

Patch Panels  
1U, 48-Port, High Density

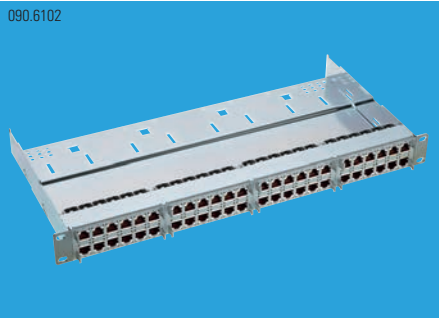

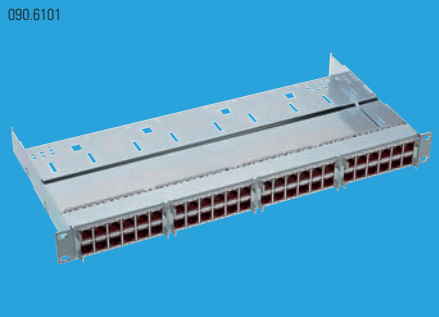

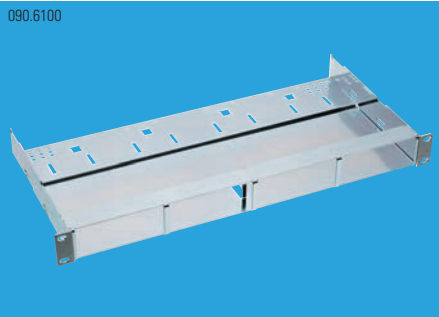

لوحات التجميع  
ارتفاع 1 وحدة، 48 مخرج. عالية الكثافة

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U HD Basic Patch Panel 48xRJ45/u,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U HD Basic patch panel</li><li>– 4 12-port/u connection module holders HD</li><li>– 48 connection modules RJ45/u incl. dust covers</li><li>– 19" mounting kit</li><li>– Cable ties</li><li>– Installation instructions</li></ul>		
	<b>Cat.6A ISO, gray, fully populated</b>	1	R512423
	 Suitabel for R&MinteliPhy.		
	<b>19" 1U HD Basic Patch Panel 48-Port,</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U HD Basic patch panel</li><li>– 19" mounting kit</li><li>– Installation instructions</li></ul>		
	<b>gray, empty</b>	1	R512421
	<b>19" 1U HD Patch Panel 24xRJ45/s,</b> Metal patch panel with integrated cable tie shelf. Supplied: <ul style="list-style-type: none"><li>– 19" 1U HD patch panel</li><li>– 4 6-port/s connection module holders HD</li><li>– Grounding system</li><li>– 24 connection modules RJ45/s incl. EMC covers and dust covers</li><li>– 19" mounting kit</li><li>– Cable ties</li><li>– 4 velcro strips</li><li>– Installation instructions</li></ul>		
	<b>Cat.6A ISO, gray, fully populated</b>	1	R512419
	<b>Real10 Cat.6, gray, fully populated</b>	1	R809221
	<b>Cat.5e, gray, fully populated</b>	1	R809217
 Suitabel for R&MinteliPhy.			
	<b>19" 1U HD Patch Panel 24xRJ45/u,</b> Metal patch panel with integrated cable tie shelf. Supplied: <ul style="list-style-type: none"><li>– 19" 1U HD patch panel</li><li>– 4 6-port/u connection module holders HD</li><li>– 24 connection modules RJ45/u incl. dust covers</li><li>– 19" mounting kit</li><li>– Cable ties</li><li>– 4 velcro strips</li><li>– Installation instructions</li></ul>		
	<b>Cat.6A ISO, gray, fully populated</b>	1	R512420
	<b>Cat.6, gray, fully populated</b>	1	R809222
	<b>Cat.5e, gray, fully populated</b>	1	R809218
 Suitabel for R&MinteliPhy.			



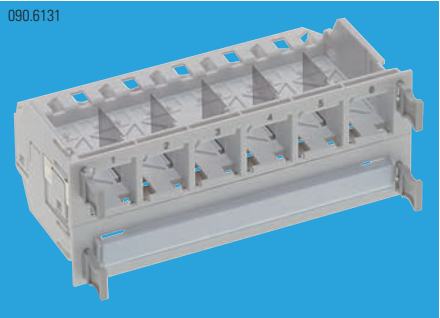
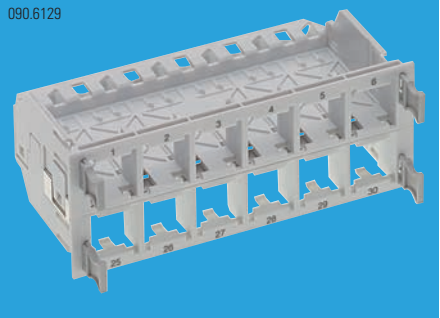
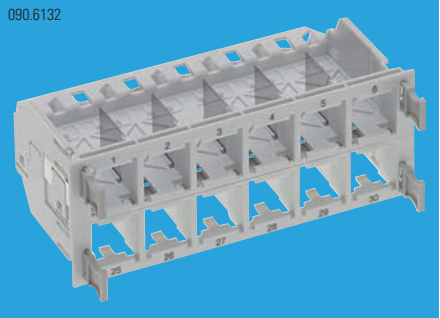
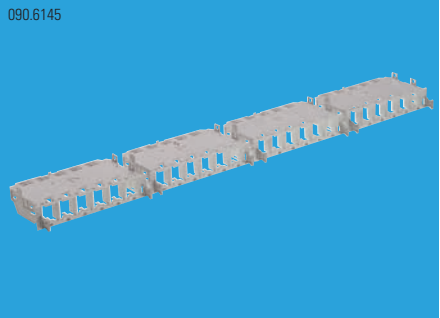
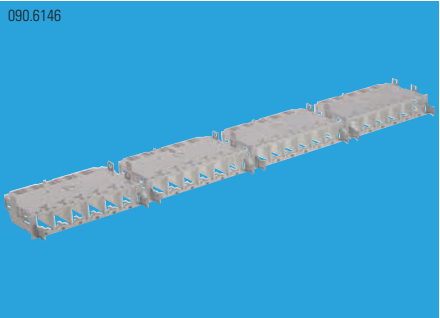
Patch Panels  
1U, 48-Port, High Density

لوحات التجميع  
ارتفاع 1 وحدة, 48 مخرج. عالية الكثافة

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U HD Patch Panel 48xRJ45/s,</b> Metal patch panel with integrated cable tie shelf. Supplied: – 19" 1U HD patch panel – 4 12-port/s connection module holders HD – Grounding system – 48 Cat.6A ISO connection modules, RJ45/s incl. EMC covers and dust covers – 19" mounting kit – Cable ties – 4 velcro strips – Installation instructions <b>Cat.6A ISO, gray, fully populated</b>  Suitabel for R&MinteliPhy.	1	R512417
	<b>19" 1U HD Patch Panel 48xRJ45/u,</b> Metal patch panel with integrated cable tie shelf. Supplied: – 19" 1U HD patch panel – 4 12-port/u connection module holders HD – 48 Cat.6A ISO connection modules, RJ45/u incl. dust covers – 19" mounting kit – Cable ties – 4 velcro strips – Installation instructions <b>Cat.6A ISO, gray, fully populated</b>  Suitabel for R&MinteliPhy.	1	R512418
	<b>19" 1U HD Patch Panel 48-Port,</b> Metal patch panel with integrated cable tie shelf. Ready for all HD inserts (copper / FO). Supplied: – 19" 1U HD patch panel – 19" mounting kit – 4 velcro strips – Installation instructions <b>gray, empty</b>	1	R512416
	<b>Connection Module Holder HD, 4x 6-port/s,</b> To be mounted into 19" 1U HD Basic and HD patch panels, shielded. The ports are consecutively numbered from 1 to 24. Supplied: – 4 6-port/s connection module holders HD – Grounding system – Cable ties – Manual grounding concept <b>Cat.6A ISO with blind element, gray</b> <b>Cat.5/6, gray</b>	1 1	R512427 R809225

Patch Panels  
1U, 48-Port, High Density

لوحات التجميع  
ارتفاع 1 وحدة, 48 مخرج. عالية الكثافة

Ordering Information	Description	MOQ	Part Number
	<b>Connection Module Holder HD, 4x 6-port/u,</b> To be mounted into 19" 1U HD Basic and HD patch panels, unshielded. The ports are consecutively numbered from 1 to 24. Supplied: – 4 6-port/u connection module holders HD – Cable ties <b>Cat.6A ISO with blind element, gray</b> <b>Cat.5/6, gray</b>	1 1	R512429 R809339
	<b>Connection Module Holder HD, 4x 12-port/s,</b> To be mounted into 19" 1U HD Basic and HD patch panels, shielded. The ports are consecutively numbered from 1 to 48. Supplied: – 4 12-port/s connection module holders HD – Grounding system – Cable ties – Manual grounding concept <b>Cat.6A ISO, gray</b>	1	R512426
	<b>Connection Module Holder HD, 4x 12-port/u,</b> To be mounted into 19" 1U HD Basic and HD patch panels, unshielded. The ports are consecutively numbered from 1 to 48. Supplied: – 4 12-port/u connection module holders HD – Cable ties <b>Cat.6A ISO, gray</b>	1	R512428
	<b>Upgrade Kit HD to 48-port/s,</b> Enables the upgrade from 24-ports (4x 6-port/s with blind element) to a 48-port (4x 12-port/s) HD Basic or HD standard patch panel. The ports on the module holders are numbered consecutively from 25 to 48. Supplied: – 4 6-port/s connection module holders HD – Cable ties <b>gray</b>	1	R512431
	<b>Upgrade Kit HD to 48-port/u,</b> Enables the upgrade from 24-ports (4x 6-port/u with blind element) to a 48-port (4x 12-port/u) HD Basic or HD standard patch panel. The ports on the module holders are numbered consecutively from 25 to 48. Supplied: – 4 6-port/u connection module holders HD – Cable ties <b>gray</b>	1	R512700

Patch Panels  
1U, 48-Port, High Density

لوحات التجميع  
ارتفاع 1 وحدة, 48 مخرج. عالية الكثافة

Ordering Information	Description	MOQ	Part Number
090.6134	<b>Blind Cover HD,</b> For use with 19" 1U HD Basic patch panel and 19" 1U HD patch panel. <b>gray</b>	1	R802922
090.6120	<b>19" 1U HD Basic Patch Panel 24xRJ45/s,</b> Supplied: – 19" 1U HD Basic patch panel – 4 6-port/s connection module holders HD – Grounding system – 24 connection modules RJ45/s incl. EMC covers and dust covers – 19" mounting kit – Cable ties – Installation instructions <b>Cat.6A ISO, black, fully populated</b> <b>Real10 Cat.6, black, fully populated</b> <b>Cat.5e, black, fully populated</b>  Suitabel for R&MinteliPhy.	1 1 1	R512729 R809215 R809211
090.6119	<b>19" 1U HD Basic Patch Panel 24xRJ45/u,</b> Supplied: – 19" 1U HD Basic patch panel – 4 6-port/u connection module holders HD – 24 connection modules RJ45/u incl. dust covers – 19" mounting kit – Cable ties – Installation instructions <b>Cat.6A ISO, black, fully populated</b> <b>Cat.6, black, fully populated</b> <b>Cat.5e, black, fully populated</b>  Suitabel for R&MinteliPhy.	1 1 1	R512730 R809216 R809212
090.6116	<b>19" 1U HD Basic Patch Panel 48xRJ45/s,</b> Supplied: – 19" 1U HD Basic patch panel – 4 12-port/s connection module holders HD – Grounding system – 48 Cat.6A ISO connection modules, RJ45/s incl. EMC covers and dust covers – 19" mounting kit – Cable ties – Installation instructions <b>Cat.6A ISO, black, fully populated</b>  Suitabel for R&MinteliPhy.	1	R512727

Patch Panels  
1U, 48-Port, High Density

لوحات التجميع  
ارتفاع 1 وحدة, 48 مخرج. عالية الكثافة

Ordering Information	Description	MOQ	Part Number
090.6115	<b>19" 1U HD Basic Patch Panel 48xRJ45/u,</b> Supplied: – 19" 1U HD Basic patch panel – 4 12-port/u connection module holders HD – 48 Cat.6A ISO connection modules, RJ45/u incl. dust covers – 19" mounting kit – Cable ties – Installation instructions <b>Cat.6A ISO, black, fully populated</b>  Suitabel for R&MinteliPhy.	1	R512728
090.6114	<b>19" 1U HD Basic Patch Panel 48-Port,</b> Supplied: – 19" 1U HD Basic patch panel – 19" mounting kit – Installation instructions <b>black, empty</b>	1	R512726
090.6111	<b>19" 1U HD Patch Panel 24xRJ45/s,</b> Metal patch panel with integrated cable tie shelf. Supplied: – 19" 1U HD patch panel – 4 6-port/s connection module holders HD – Grounding system – 24 connection modules RJ45/s incl. EMC covers and dust covers – 19" mounting kit – Cable ties – 4 velcro strips – Installation instructions <b>Cat.6A ISO, black, fully populated</b> <b>Real10 Cat.6, black, fully populated</b> <b>Cat.5e, black, fully populated</b>  Suitabel for R&MinteliPhy.	1 1 1	R512724 R809223 R809219
090.6110	<b>19" 1U HD Patch Panel 24xRJ45/u,</b> Metal patch panel with integrated cable tie shelf. Supplied: – 19" 1U HD patch panel – 4 6-port/u connection module holders HD – 24 connection modules RJ45/u incl. dust covers – 19" mounting kit – Cable ties – 4 velcro strips – Installation instructions <b>Cat.6A ISO, black, fully populated</b> <b>Cat.6, black, fully populated</b> <b>Cat.5e, black, fully populated</b>  Suitabel for R&MinteliPhy.	1 1 1	R512725 R809224 R809220





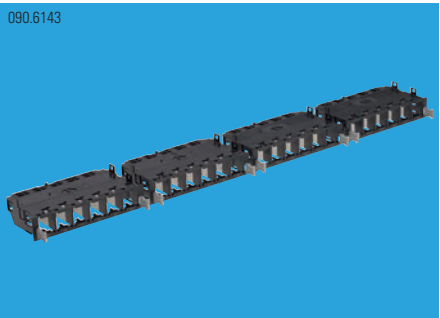
Patch Panels  
1U, 48-Port, High Density

لوحات التجميع  
ارتفاع 1 وحدة, 48 مخرج. عالية الكثافة

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U HD Patch Panel 48xRJ45/s,</b> Metal patch panel with integrated cable tie shelf. Supplied: – 19" 1U HD patch panel – 4 12-port/s connection module holders HD – Grounding system – 48 Cat.6A ISO connection modules, RJ45/s incl. EMC covers and dust covers – 19" mounting kit – Cable ties – 4 velcro strips – Installation instructions <b>Cat.6A ISO, black, fully populated</b>  Suitabel for R&MinteliPhy.	1	R512722
	<b>19" 1U HD Patch Panel 48xRJ45/u,</b> Metal patch panel with integrated cable tie shelf. Supplied: – 19" 1U HD patch panel – 4 12-port/u connection module holders HD – 48 Cat.6A ISO connection modules, RJ45/u incl. dust covers – 19" mounting kit – Cable ties – 4 velcro strips – Installation instructions <b>Cat.6A ISO, black, fully populated</b>  Suitabel for R&MinteliPhy.	1	R512723
	<b>19" 1U HD Patch Panel 48-Port,</b> Metal patch panel with integrated cable tie shelf. Ready for all HD inserts (copper / FO). Supplied: – 19" 1U HD patch panel – 19" mounting kit – 4 velcro strips – Installation instructions <b>black, empty</b>	1	R512721
	<b>Connection Module Holder HD, 4x 6-port/s,</b> To be mounted into 19" 1U HD Basic and HD patch panels, shielded. The ports are consecutively numbered from 1 to 24. Supplied: – 4 6-port/s connection module holders HD – Grounding system – Cable ties – Manual grounding concept <b>Cat.6A ISO with blind element, black</b> <b>Cat.5/6, black</b>	1 1	R512732 R809340

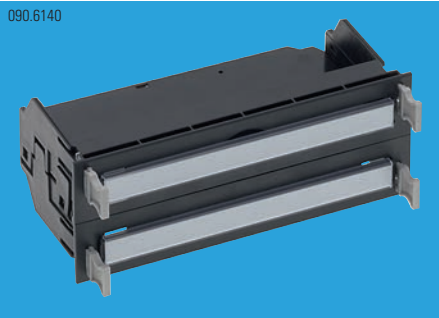
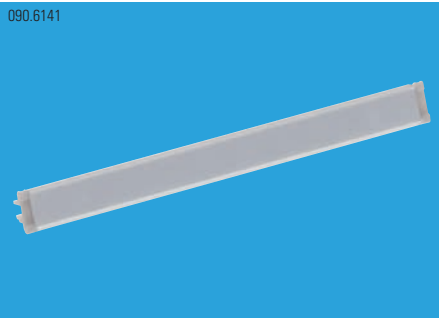
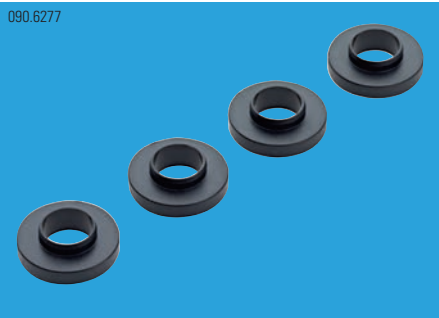
Patch Panels  
1U, 48-Port, High Density

لوحات التجميع  
ارتفاع 1 وحدة, 48 مخرج. عالية الكثافة

Ordering Information	Description	MOQ	Part Number
	<b>Connection Module Holder HD, 4x 6-port/u,</b> To be mounted into 19" 1U HD Basic and HD patch panels, unshielded. The ports are consecutively numbered from 1 to 24. Supplied: – 4 6-port/u connection module holders HD – Cable ties <b>Cat.6A ISO with blind element, black</b> <b>Cat.5/6, black</b>	1 1	R512734 R809341
	<b>Connection Module Holder HD, 4x 12-port/s,</b> To be mounted into 19" 1U HD Basic and HD patch panels, shielded. The ports are consecutively numbered from 1 to 48. Supplied: – 4 12-port/s connection module holders HD – Grounding system – Cable ties – Manual grounding concept <b>Cat.6A ISO, black</b>	1	R512731
	<b>Connection Module Holder HD, 4x 12-port/u,</b> To be mounted into 19" 1U HD Basic and HD patch panels, unshielded. The ports are consecutively numbered from 1 to 48. Supplied: – 4 12-port/u connection module holders HD – Cable ties <b>Cat.6A ISO, black</b>	1	R512733
	<b>Upgrade Kit HD to 48-port/s,</b> Enables the upgrade from 24-ports (4x 6-port/s with blind element) to a 48-port (4x 12-port/s) HD Basic or HD standard patch panel. The ports on the module holders are numbered consecutively from 25 to 48. Supplied: – 4 6-port/s connection module holders HD – Cable ties <b>black</b>	1	R512736
	<b>Upgrade Kit HD to 48-port/u,</b> Enables the upgrade from 24-ports (4x 6-port/u with blind element) to a 48-port (4x 12-port/u) HD Basic or HD standard patch panel. The ports on the module holders are numbered consecutively from 25 to 48. Supplied: – 4 6-port/u connection module holders HD – Cable ties <b>black</b>	1	R512737

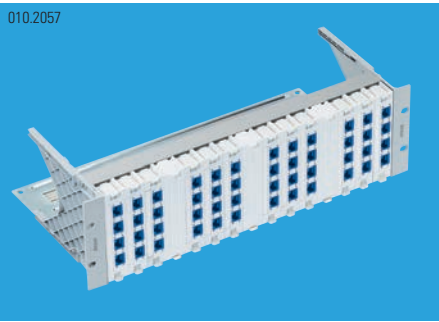
Patch Panels  
1U, 48-Port, High Density

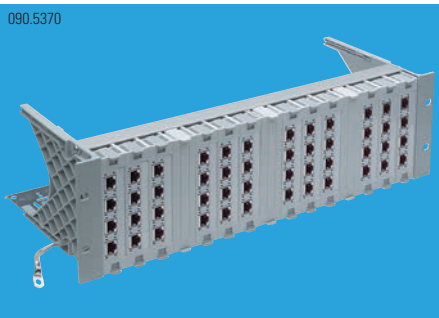
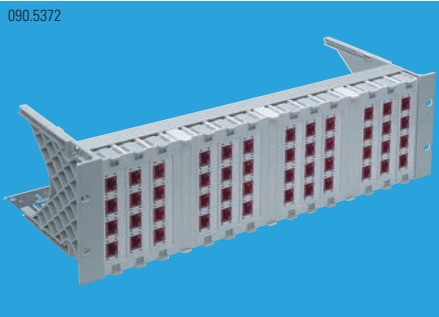
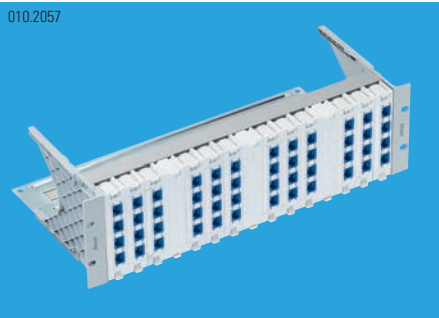
لوحات التجميع  
ارتفاع 1 وحدة, 48 مخرج, عالية الكثافة

Ordering Information	Description	MOQ	Part Number
	<b>Blind Cover HD,</b> For use with 19" 1U HD Basic patch panel and 19" 1U HD patch panel. <b>black</b>	1	R802923
	<b>Label Holder HD</b> Supplied: – Label holder – Label cover – Label strips	1	R512430
	<b>Insulation Washer Kit, 4</b> Required for earthing concept method "B" to isolate HD panel from rack. Supplied: – 4 plastic collars, black	1	R802947

Patch Panels  
3U, 48-Port, Global

لوحات التجميع  
ارتفاع 3 وحدة, 48 مخرج, شاملة



Ordering Information	Description	PU	Part No.
	<b>19" 3U Global Patch Panel 48xRJ45/s, Cat.6A ISO,</b> Supplied: – 19" 3U Global patch panel/s incl. cable tie shelf – 12 connection module holders Global/s – 3 Global blind covers – Grounding system – 48 Cat.6A ISO connection modules, RJ45/s incl. EMC covers and dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>partly populated</b>	1	R509888
	<b>19" 3U Global Patch Panel 48xRJ45/u, Cat.6A ISO,</b> Supplied: – 19" 3U Global patch panel/u incl. cable tie shelf – 12 connection module holders Global/u – 3 Global blind covers – 48 Cat.6A ISO connection modules, RJ45/u incl. dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>partly populated</b>	1	R509889
	<b>19" 3U Global Patch Panel 48xRJ45/u, Cat.6,</b> Supplied: – 19" 3U Global patch panel/u incl. cable tie shelf – 12 connection module holders Global/u – 3 Global blind covers – 48 Cat.6 connection modules, RJ45/u incl. dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>partly populated</b>	1	R302361



Patch Panels  
3U, 48-Port, Global

لوحات التجميع  
ارتفاع 3 وحدة. 48 مخرج. شاملة

Ordering Information	Description	MOQ	Part Number
090.2312	<b>19" 3U Global Patch Panel 48xRJ45/u, Real10 Cat.6,</b> Supplied: – 19" 3U Global patch panel/u incl. cable tie shelf – 12 connection module holders Global/u – 3 Global blind covers – 48 Real10 Cat.6 connection modules, RJ45/u incl. WARP covers and dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>partly populated</b>	1	R313088
010.2053	<b>19" 3U Global Patch Panel 48xRJ45/s, Real10 Cat.6,</b> Supplied: – 19" 3U Global patch panel/s incl. cable tie shelf – 12 connection module holders Global/s – 3 Global blind covers – Grounding system – 48 Real10 Cat.6 connection modules, RJ45/s incl. EMC covers and dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>partly populated</b>	1	R302360
010.2061	<b>19" 3U Global Patch Panel 48xRJ45/u, Cat.5e,</b> Supplied: – 19" 3U Global patch panel/u incl. cable tie shelf – 12 connection module holders Global/u – 3 Global blind covers – 48 Cat.5e connection modules, RJ45/u incl. dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>partly populated</b>	1	R35405
010.2059	<b>19" 3U Global Patch Panel 48xRJ45/s, Cat.5e,</b> Supplied: – 19" 3U Global patch panel/s incl. cable tie shelf – 12 connection module holders Global/s – 3 Global blind covers – Grounding system – 48 Cat.5e connection modules, RJ45/s incl. EMC covers and dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>partly populated</b>	1	R35404

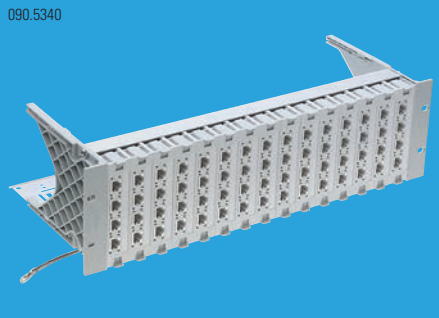
Patch Panels  
3U, 60-Port, Global

لوحات التجميع  
ارتفاع 3 وحدة. 60 مخرج. شاملة

Ordering Information	Description	MOQ	Part Number
090.5371	<b>19" 3U Global Patch Panel 60xRJ45/s, Cat.6A ISO,</b> Supplied: – 19" 3U Global patch panel/s incl. cable tie shelf – 15 connection module holders Global/s – Grounding system – 60 Cat.6A ISO connection modules, RJ45/s incl. EMC covers and dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>fully populated</b>	1	R509890
090.5373	<b>19" 3U Global Patch Panel 60xRJ45/u, Cat.6A ISO,</b> Supplied: – 19" 3U Global patch panel/u incl. cable tie shelf – 15 connection module holders Global/u – 60 Cat.6A ISO connection modules, RJ45/u incl. dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>fully populated</b>	1	R509891
010.2056	<b>19" 3U Global Patch Panel 60xRJ45/u, Cat.6,</b> Supplied: – 19" 3U Global patch panel/u incl. cable tie shelf – 15 connection module holders Global/u – 60 Cat.6 connection modules, RJ45/u incl. dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>fully populated,</b>	1	R302363
090.2311	<b>19" 3U Global Patch Panel 60xRJ45/u, Real10 Cat.6,</b> Supplied: – 19" 3U Global patch panel/u incl. cable tie shelf – 15 connection module holders Global/u – 60 Real10 Cat.6 connection modules, RJ45/u, incl. WARP covers and dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>fully populated</b>	1	R313089



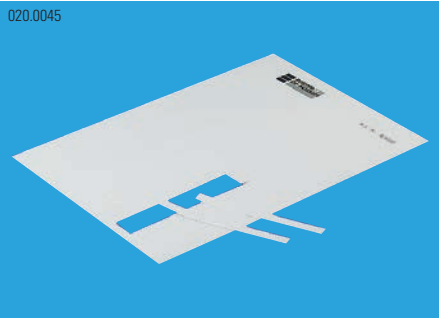
Patch Panels  
3U, 60-Port, Global

لوحات التجميع  
ارتفاع 3 وحدة, 60 مخرج, شاملة

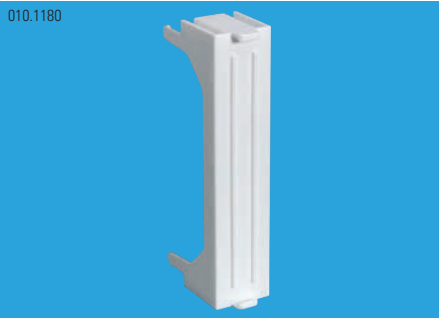
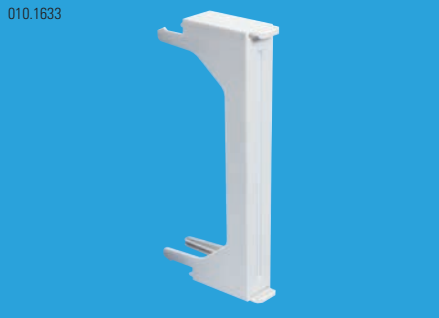
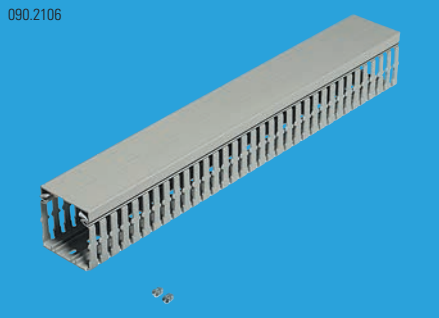
Ordering Information	Description	MOQ	Part Number
	<b>19" 3U Global Patch Panel 60xRJ45/u, Cat.6,</b> Supplied: – 19" 3U Global patch panel/u incl. cable tie shelf – 15 connection module holders Global/u – 60 Cat.6 connection modules, RJ45/u incl. dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>fully populated</b>	1	R302363
	<b>19" 3U Global Patch Panel 60xRJ45/s, Cat.5e,</b> Supplied: – 19" 3U Global patch panel/s incl. cable tie shelf – 15 connection module holders Global/s – Grounding system – 60 Cat.5e connection modules, RJ45/s incl. EMC covers and dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>fully populated</b>	1	R35406
	<b>19" 3U Global Patch Panel 60xRJ45/u, Cat.5e,</b> Supplied: – 19" 3U Global patch panel/u incl. cable tie shelf – 15 connection module holders Global/u – 60 Cat.5e connection modules, RJ45/u incl. dust covers – Labeling strips – 19" mounting kit – Cable ties – Installation instructions <b>fully populated</b>	1	R35407
	<b>19" 3U Global Patch Panel 60-Port/s,</b> Holds up to fifteen Global/s connection module holders, Global blind covers or six Global adapter units. Max. capacity of 60 RJ45/s connection modules. Supplied: – 19" 3U Global patch panel/s incl. cable tie shelf – Grounding system – 19" mounting kit – Installation instructions <b>empty</b>	1	R35408
	<b>19" 3U Global Patch Panel 60-Port/u,</b> Holds up to fifteen Global/u connection module holders, Global blind covers or six Global adapter units. Max. capacity of 60 RJ45/u connection modules. Supplied: – 19" 3U Global patch panel/u incl. cable tie shelf – 19" mounting kit – Installation instructions <b>empty</b>	1	R35409

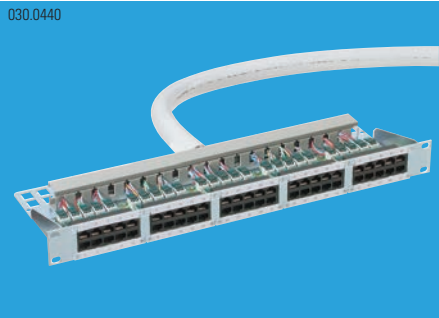
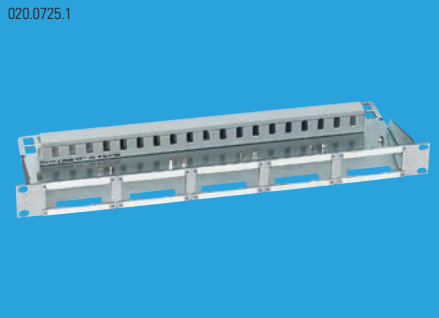
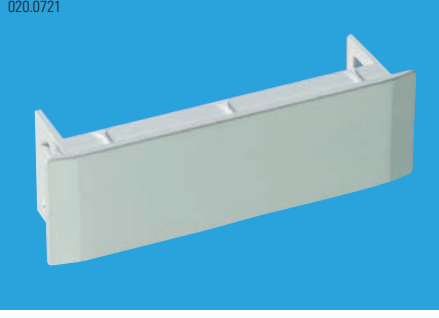
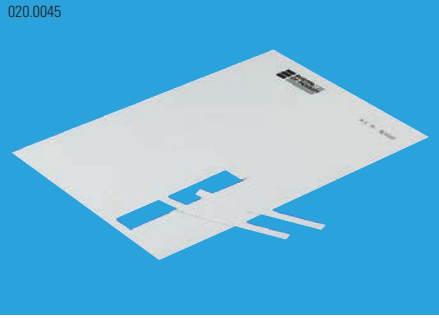
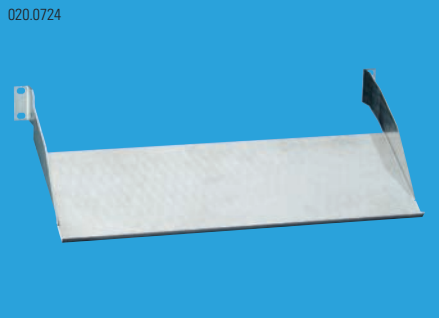
Patch Panels  
3U, 60-Port, Global

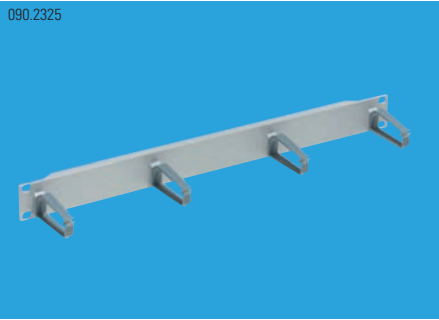
لوحات التجميع  
ارتفاع 3 وحدة, 60 مخرج, شاملة

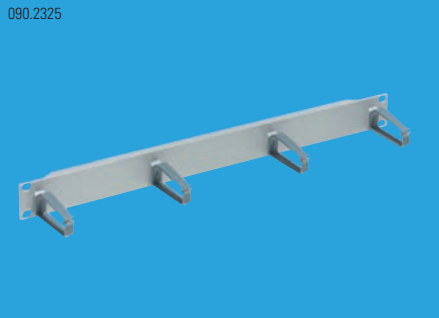

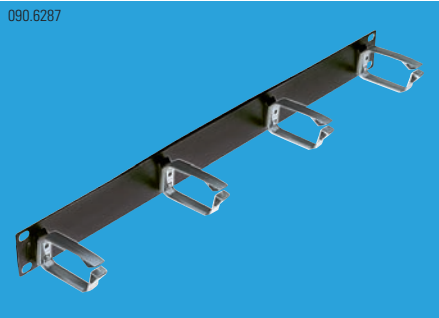
Ordering Information	Description	MOQ	Part Number
	<b>Connection Module Holder 3U Global/s,</b> To be mounted into 19" 3U Global patch panels, shielded. Holding capacity: 4 connection modules RJ45/s. Supplied: – Connection module holder – Integrated grounding plate – Labeling strip – Installation instructions <b>1 GU</b>	1	R35402
	<b>Connection Module Holder 3U Global/u,</b> To be mounted into 19" 3U Global patch panels, unshielded. Holding capacity: 4 connection modules RJ45/u or 4 SC-RJ or E-2000™-Compact adapters. Supplied: – Connection module holder – Labeling strip – Installation instructions <b>1 GU</b>	1	R35403
	<b>Grounding Kit for 48/60-Port</b> For a simple and efficient ground connection of connection modules. Suitable for patch panels of 48/60 ports. Supplied: – Copper rail – 2 plastic fastening brackets – 1 single ground connection lead – 7 double ground connection leads	1	R925861
	<b>Voice Adapter 3U Global,</b> To be mounted into 19" 3U Global patch panels. Max. equipped with 5 voice adapters (150 ports). Holding capacity for 3 connection modules 10xRJ45. Supplied: – Global Voice Adapter – 4 labeling strips <b>3x10-Port, 3 GU</b>	1	R310400
	<b>Labeling Sheet Fiberliner / 3U Global Module Holder</b> For the labeling of front plates and 19" insertions. Dimensions: A4. Material: paper, white, perforated. Supplied: – Fiberliner and 3U Global module holder labeling sheet (50 strips without logo)	10	R30871


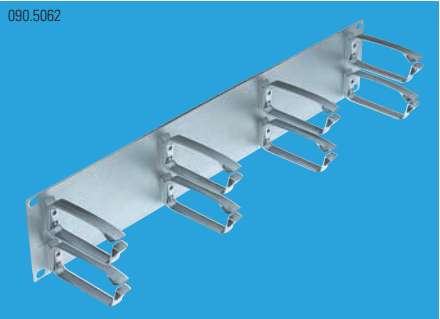
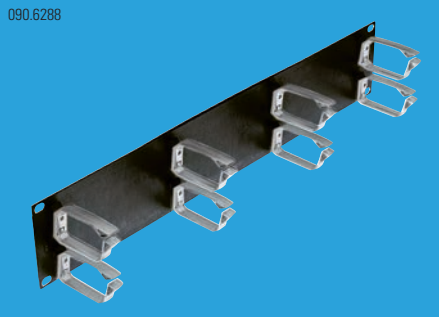



Ordering Information	Description	MOQ	Part Number
<div>010.1180</div> 	<b>Blind Cover 3U Global,</b> For use with 19" 3U Global patch panels, shielded and unshielded. <b>1 GU</b>	1	R35401
<div>010.1633</div> 	<b>Blind Cover 3U Global,</b> For use with 19" 3U Global patch panels, shielded and unshielded. To cover half an element when adapter units (installation size = 2 1/2 width units of a connection module holder) or an uneven number of adapter units in the Global patch panel are used. <b>0.5 GU</b>	1	R302149
<div>090.2106</div> 	<b>Cable Duct 3U Global,</b> Recommended for multipair telephone cables. Mounted onto the cable tie shelf of the 3U Global patch panel, the cable duct ensures optimum cable management. Supplied: – Cable duct, length 420 mm – Mounting kit <b>420 mm</b>	1	R310401


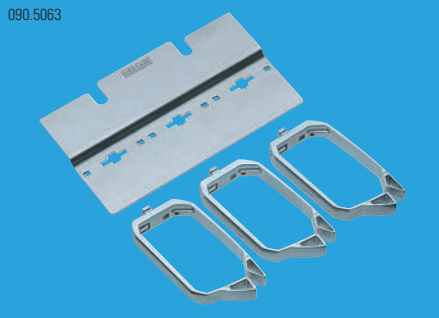
Ordering Information	Description	MOQ	Part Number
<div>030.0440</div> 	<b>Features</b> – 19" 1U voice panel with up to 50 RJ45/u ports – Label holder with exchangeable labeling strips – Cable guide for optimum pair routing – Prepared for grounding connection		
<div>020.0725.1</div> 	<b>19" 1U Patch Panel 50-Port, empty</b> With a holding capacity of 5 connection modules 10xRJ45/u. Supplied: – 19" 1U (84HP) patch panel, powder-coated, gray – 19" mounting kit – 10 labeling strips – Instruction manual	1	R35115
<div>020.0721</div> 	<b>Blind Cover 1x10-Port, light gray</b> To cover one unused port on the voice panel.	10	R35117
<div>020.0045</div> 	<b>Labeling Sheet Voice Panel</b> Suitable for laser printers. Material: paper, white, perforated. Supplied: – A4 sheet with 72 strips (blank)	10	R35119
<div>020.0724</div> 	<b>19" 1U Mounting Support, Voice Panel</b> For a convenient connecting of the voice panel directly at the 19" distributor. Material: stainless steel. Supplied: – Mounting support – 2 M6 fastening screws	1	R35118

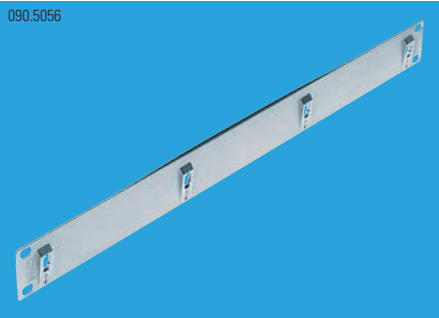
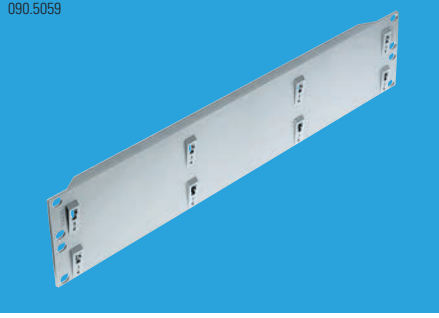
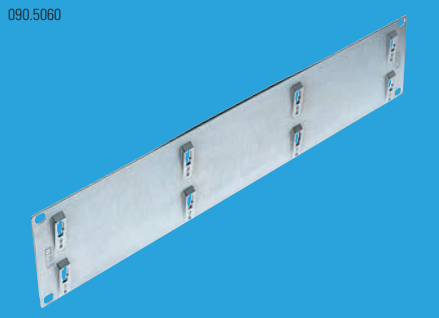
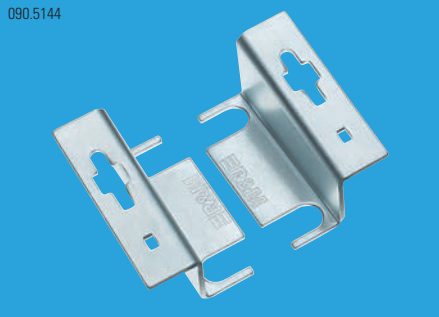
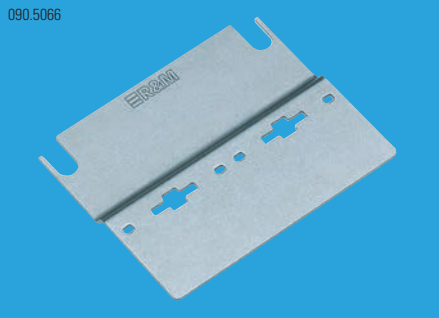


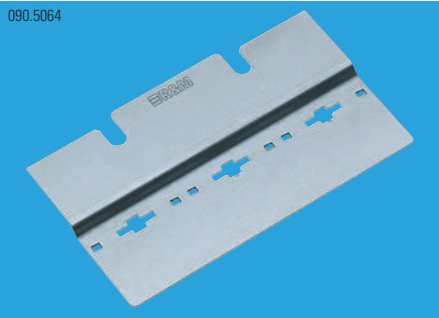
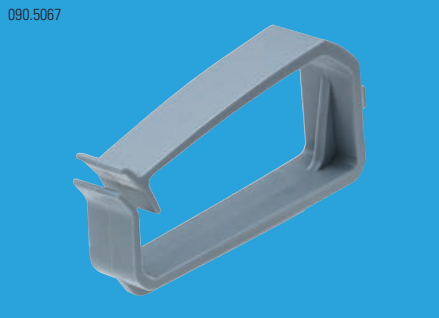

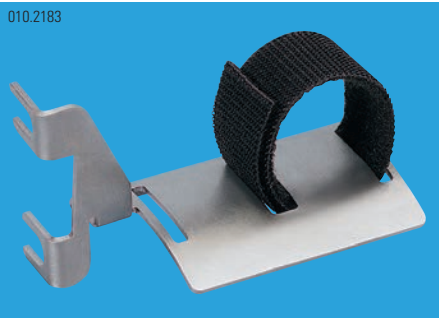
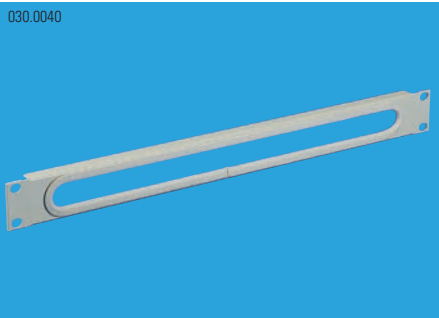
Ordering Information	Description	MOQ	Part Number
	<b>19" 1U Cable Management Plastic,</b> Plastic plate with four mounted jumpering brackets. For a neat, horizontal routing of patch cords between patching fields. The reinforced plastic plate and snap-in jumpering brackets provide additional stability and quick mounting. Supplied: – 19" 1U plastic panel – 4 plastic rings, gray – 19" mounting kit <b>70 mm plastic ring</b>	1	R306179
	<b>19" 1U Cable Management Metal,</b> For a neat, horizontal routing of patch cords between patching fields. Fast assembly of metal rings. Easy insertion and removal of patch cords without damage to cable. Supplied: – 19" 1U metal panel – 4 metal rings – 4 mounting screws – 19" mounting kit <b>metallic, 70 mm metal ring</b> <b>metallic, 90 mm metal ring</b>	1 1	R502272 R502280
	<b>19" 1U Cable Management Metal, black,</b> For a neat, horizontal routing of patch cords between patching fields. Fast assembly of metal rings. Easy insertion and removal of patch cords without damage to cable. Supplied: – 19" 1U metal panel – 4 metal rings – 4 mounting screws – 19" mounting kit <b>70 mm metal ring</b> <b>90 mm metal ring</b>	1 1	R802948 R802949

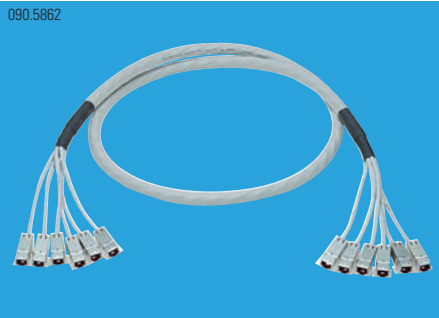
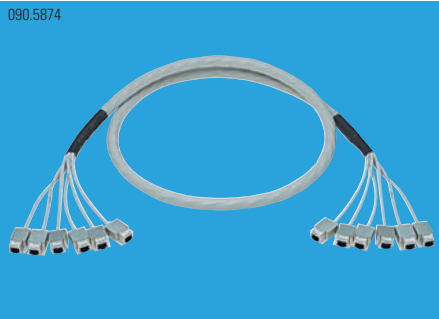
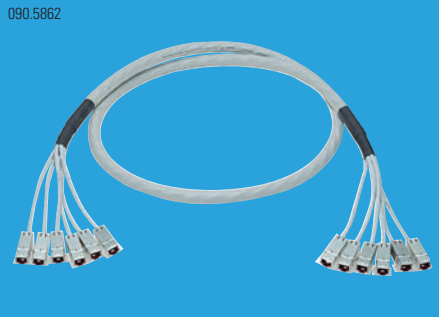
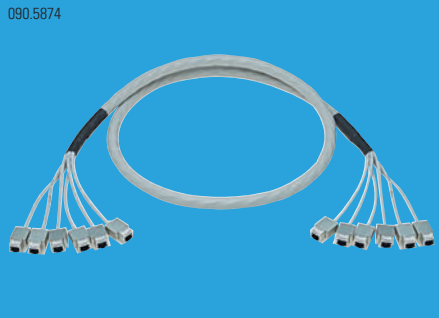
Ordering Information	Description	MOQ	Part Number
	<b>19" 2U Cable Management Plastic,</b> Plastic plate with eight mounted jumpering brackets. For a neat, horizontal routing of patch cords between patching fields. The reinforced plastic plate and snap-in jumpering brackets provide additional stability and quick mounting. Supplied: – 19" 2U plastic panel – 8 plastic ring, gray – 19" mounting kit <b>70 mm plastic ring</b>	1	R306180
	<b>19" 2U Cable Management Metal,</b> For a neat, horizontal routing of patch cords between patching fields. Fast assembly of metal rings. Easy insertion and removal of patch cords without damage to cable. Supplied: – 19" 2U metal panel – 8 metal rings – 8 mounting screws – 19" mounting kit <b>metallic, 70 mm metal ring</b> <b>metallic, 90 mm metal ring</b>	1 1	R502281 R502282
	<b>19" 2U Cable Management Metal, black,</b> For a neat, horizontal routing of patch cords between patching fields. Fast assembly of metal rings. Easy insertion and removal of patch cords without damage to cable. Supplied: – 19" 2U metal panel – 8 metal rings – 8 mounting screws – 19" mounting kit <b>70 mm metal ring</b> <b>90 mm metal ring</b>	1 1	R802950 R803486
	<b>Global Cable Management 2-Ring,</b> For vertical cable management with the Global 2U patch panel. Fast installation – slides under Global 2U panel mounting screws. Flexible – mounts on left or right outside of panel. Saves space through higher port densities. Supplied: – 2U steel panel – 2 plastic rings, gray <b>70 mm plastic ring</b>	1	R505851





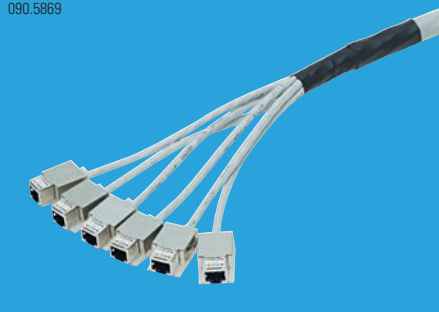
Ordering Information	Description	MOQ	Part Number
	<b>Global Cable Management 2-Ring,</b> For vertical cable management with the Global 2U patch panel. Fast installation – slides under Global 2U panel mounting screws. Flexible – mounts on left or right outside of panel. Saves space through higher port densities. Supplied: – 2U steel panel – 2 metal rings – 2 mounting screws <b>70 mm metal ring</b>	1	R503228
	<b>Global Cable Management 3-Ring,</b> For vertical cable management with the Global 3U patch panel. Fast installation – slides under Global 3U panel mounting screws. Flexible – mounts on left or right and on inside or outside of panel. Saves space through higher port densities. Width: 1.5 GU. Supplied: – 3U steel panel – 3 plastic rings, gray <b>70 mm plastic ring</b>	1	R316247
	<b>Global Cable Management 3-Ring,</b> For vertical cable management with the Global 3U patch panel. Fast installation – slides under Global 3U panel mounting screws. Flexible – mounts on left or right and on inside or outside of panel. Saves space through higher port densities. Width: 1.5 GU. Supplied: – 3U steel panel – 3 metal rings – 3 mounting screws <b>70 mm metal ring</b>	1	R503227
	<b>19" 1U Cable Management Plastic</b> For a neat, horizontal routing of patch cords between patching fields. Accepts: metal rings, 70 mm or 90 mm and plastic rings, 70 mm. Supplied: – 19" 1U plastic panel – 19" mounting kit	1	R503231

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U Cable Management Metal</b> For a neat, horizontal routing of patch cords between patching fields. Accepts: metal rings, 70 mm or 90 mm and plastic rings, 70 mm. Supplied: – 19" 1U metal panel – 19" mounting kit	1	R502283
	<b>19" 2U Cable Management Plastic</b> For a neat, horizontal routing of patch cords between patching fields. Accepts: metal rings, 70 mm or 90 mm and plastic rings, 70 mm. Supplied: – 19" 2U plastic panel – 19" mounting kit	1	R503229
	<b>19" 2U Cable Management Metal</b> For a neat, horizontal routing of patch cords between patching fields. Accepts: metal rings, 70 mm or 90 mm and plastic rings, 70 mm. Supplied: – 19" 2U metal panel – 19" mounting kit	1	R502284
	<b>1U Angled Steel Panel</b> For vertical cable management with the angled patch panel. Fast installation – slides under panel mounting screws. Mounts on left and right outside of panel. Accepts: metal rings, 70 mm or 90 mm and plastic rings, 70 mm. Supplied: – Steel panel, left – Steel panel, right	1	R500542
	<b>Global 2U Steel Panel</b> For vertical cable management with the Global 2U patch panel. Fast installation – slides under Global 2U panel mounting screws. Flexible – mounts on left or right outside of panel. Saves space through higher port densities. Accepts: metal rings, 70 mm or 90 mm and plastic rings, 70 mm.	1	R503224

Ordering Information	Description	MOQ	Part Number
	<b>Global 3U Steel Panel</b> For vertical cable management with the Global 3U patch panel. Fast installation – slides under Global 3U panel mounting screws. Flexible – mounts on left or right and on inside or outside of panel. Saves space through higher port densities. Width: 1.5 GU. Accepts: metal rings, 70 mm or 90 mm and plastic rings, 70 mm.	1	R503225
	<b>Plastic Ring.</b> For a neat horizontal or vertical routing of patch cords. Suitable for: 1U / 2U cable management metal or plastic, Global 2U or 3U steel panel and angled 1-ring metal panel. <b>70 mm</b>	1	R503217
	<b>Metal Ring.</b> For a neat horizontal or vertical routing of patch cords. Suitable for: 1U / 2U cable management metal or plastic, Global 2U / 3U steel panel and angled 1-ring metal panel. Supplied: – Metal ring – 1 mounting screw <b>70 mm</b> <b>90 mm</b>	1 1	R502285 R502286
	<b>19" Lateral Radius Guard,</b> The radius guard guarantees compliance with admissible bending radius of copper and FO cables. The guard is mounted to the front of 19" racks. Color: medium gray (NCS 2503-B). Supplied: – Lateral radius guard, left – Lateral radius guard, right – Velcro fastening 19 x 400 mm <b>left and right</b>	1	R306181
	<b>19" 1U Cable Through Guide Panel</b> Material: sheet steel. Color: medium gray (NCS 2502-B).	1	R25055

Ordering Information	Description	MOQ	Part Number
	<b>Features</b> – Fast and safe installation (plug and play) – 100% process inspection – Numbered fan-out legs – Length AWG23 from 5 to 80 m, AWG26 from 5 to 55 m – AWG26 up to 30% volume and weight reduction compared to AWG23 – Exceeds requirements specified by standards IEEE 802.3an and ISO/IEC 11801 ed.2002 adm. 1 Class EA – Exceeds Cat.6A ISO Class EA (500 MHz); ISO/IEC 11801 ed. 2.2 – Dust protection of connection modules during transport and insertion tool with integral pulling device for installation		
	<b>i</b> Other cable lengths and connections on request.		
	<b>Trunk Cable Compact, Cat.7, 6x4P, 900MHz,</b> Wiring diagram: EIA/TIA 568A. Leg length: 20 cm. Cable identification: S/FTP. Outer jacket: LSZH. Conductor diameter: AWG23/1 (solid wire). Screened in pairs: AL/polyester foil. Overall screen: copper braid. Outer diameter: 25.0 mm. <b>module Cat.6A RJ45/s - module Cat.6A RJ45/s, 7.5 m</b> <b>module Cat.6 RJ45/s - module Cat.6 RJ45/s, 7.5 m</b>	1 1	R803893 R803892
	<b>Trunk Cable Compact, Cat.6A, 6x4P, 650MHz,</b> Wiring diagram: EIA/TIA 568A. Leg length: 20 cm. Cable identification: S/FTP. Outer jacket: LSZH. Conductor diameter: AWG26/1 (solid wire). Screened in pairs: AL/polyester foil. Overall screen: copper braid. Outer diameter: 19.2 mm. <b>module Cat.6A RJ45/s - module Cat.6A RJ45/s, 7.5 m</b>	1	R803887
	<b>Trunk Cable Compact, Cat.6, 6x4P, 650MHz,</b> Wiring diagram: EIA/TIA 568A. Leg length: 20 cm. Cable identification: S/FTP. Outer jacket: LSZH. Conductor diameter: AWG26/1 (solid wire). Screened in pairs: AL/polyester foil. Overall screen: copper braid. Outer diameter: 19.2 mm. <b>module Cat.6 RJ45/s - module Cat.6 RJ45/s, 7.5 m</b>	1	R803885



Ordering Information	Description	MOQ	Part Number
	<b>Trunk Cable Loomed, Cat.7, 6x4P, 900MHz,</b> Wiring diagram: EIA/TIA 568A. Leg length: 20 cm. Cable identification: S/FTP. Outer jacket: LSZH. Conductor diameter: AWG23/1 (solid wire). Screened in pairs: AL/polyester foil. Overall screen: copper braid. Outer diameter: 22.1 mm.	1	R803895
	<b>module Cat.6A RJ45/s - module Cat.6A RJ45/s, 7.5 m</b> <b>module Cat.6 RJ45/s - module Cat.6 RJ45/s, 7.5 m</b>	1	R803894
	<b>Trunk Cable Loomed, Cat.6A, 6x4P, 650MHz,</b> Wiring diagram: EIA/TIA 568A. Leg length: 20 cm. Cable identification: S/FTP. Outer jacket: LSZH. Conductor diameter: AWG26/1 (solid wire). Screened in pairs: AL/polyester foil. Overall screen: copper braid. Outer diameter: 16.4 mm.	1	R803891
	<b>Trunk Cable Loomed, Cat.6, 6x4P, 650MHz,</b> Wiring diagram: EIA/TIA 568A. Leg length: 20 cm. Cable identification: S/FTP. Outer jacket: LSZH. Conductor diameter: AWG26/1 (solid wire). Screened in pairs: AL/polyester foil. Overall screen: copper braid. Outer diameter: 16.4 mm.	1	R803888



Ordering Information	Description	MOQ	Part Number
	<b>Features</b> – Consolidation point - flex cables (CP cables) are used in horizontal cabling applications of open cabling systems – They are the link between the central distributor and the workplace outlet – CP flex cables Cat.6 are available in shielded and unshielded versions – Their installation is simple and saves a lot of time – Connection 1:1 between connector and RJ45 connection module  <b>i</b> Other cable lengths and connections on request		
	<b>CP Cable Cat.6A ISO, S/FTP, 4P, LSFRZH, RJ45/s- RJ45/s,</b> RJ45/s connector + Cat.6A ISO connection module. Cable identification: S/FTP. Outer jacket: LSFRZH. Conductor diameter copper strand: AWG26/7. Screened in pairs: AL/polyester foil. Overall screen: copper braid. Outer diameter: 6 mm.	1	R803721
	<b>7.5 m</b>	1	R802415
	<b>10.0 m</b>	1	R802418
	<b>15.0 m</b>		
	<b>CP Cable Cat.6A ISO, U/UTP, 4P, LSZH, RJ45/u- RJ45/u,</b> RJ45/u connector + Cat. 6A ISO connection module. Cable identification: U/UTP. Outer jacket: LSZH. Conductor diameter copper strand: AWG27/7. Screened in pairs: no. Overall screen: no (non continous Alien X-Talk suppression tape). Outer diameter: 6.0 mm.	10	R804909
	<b>7.5 m</b>	5	R804910
	<b>10.0 m</b>	5	R804911
	<b>15.0 m</b>		
	<b>CP Cable Real10 Cat.6, S/FTP, 4P, LSFRZH, RJ45/s- RJ45/s,</b> RJ45/s connector + Cat. 6 connection module. Cable identification: S/FTP. Outer jacket: LSFRZH. Conductor diameter copper strand: AWG26/7. Screened in pairs: AL/polyester foil. Overall screen: copper braid. Outer diameter: 6 mm.	10	R307092
	<b>7.5 m</b>	5	R307093
	<b>10.0 m</b>	5	R307094
	<b>15.0 m</b>		

Patch Cords
RJ45 Patch Cord Cat.6A ISO

وصلات مرنة
RJ45 Cat.6A ISO
وصلات مرنة



- Features
- Cat.6A ISO allow transmission frequencies of ≥ 650 MHz
  - 100 Ohm impedance
  - Available in shielded and unshielded versions
  - Compliant with Cat.6A ISO, Class EA (500 MHz) requirements: ISO/IEC 11801.2.1
  - Compliant with Cat.6A ISO component standards IEC 60603-7-41 (unshielded) or 60603-7-51 (shielded)
  - Connection 1:1

Ordering Information	Description	PU	Part No.
	<b>Patch Cord Cat.6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s,</b> Cable identification: S/FTP. Outer jacket: LSFRZH. Conductor diameter copper strand: AWG26/7. Screened in pairs: AL/foil. Overall screen: copper braid. Outer diameter: 6 mm.		
	<b>0.5 m</b>	10	R509857
	<b>1.0 m</b>	10	R509858
	<b>1.5 m</b>	10	R509860
	<b>2.0 m</b>	10	R509861
	<b>3.0 m</b>	10	R509862
	<b>5.0 m</b>	10	R509863
	<b>7.5 m</b>	10	R509864
	<b>10.0 m</b>	10	R509865
	<b>12.5 m</b>	5	R509866
	<b>15.0 m</b>	5	R509867
	<b>20.0 m</b>	5	R509868
	<b>Patch Cord Cat.6A ISO, U/UTP, 4P, LSFRZH, RJ45/u-RJ45/u,</b> Cable identification: U/UTP. Outer jacket: LSFRZH. Conductor diameter copper strand: AWG26/7. Screened in pairs: no. Overall screen: no. Outer diameter: 6.0 mm.		
	<b>0.5 m</b>	10	R509869
	<b>1.0 m</b>	10	R509870
	<b>1.5 m</b>	10	R509871
	<b>2.0 m</b>	10	R509872
	<b>3.0 m</b>	10	R509873
	<b>5.0 m</b>	10	R509874
	<b>7.5 m</b>	10	R509875
	<b>10.0 m</b>	10	R509876
	<b>12.5 m</b>	5	R509877
	<b>15.0 m</b>	5	R509878
	<b>20.0 m</b>	5	R509879



Patch Cords
RJ45 Patch Cord Cat.6

وصلات مرنة
RJ45 Cat.6
وصلات مرنة






- Features
- Cat.6 U/UTP suitable for transmission frequencies of ≥ 450 MHz
  - Real10 Cat.6 allow transmission frequencies of ≥ 650 MHz
  - 100 Ohm impedance
  - Available in shielded and unshielded versions
  - Compliant with Cat.6, Class E (250 MHz) requirements: ISO/IEC 11801 2nd Edition
  - Compliant with Cat.6 component standards IEC 60603-7-4 and 60603-7-5
  - Connection 1:1

i Cat.6 patch cords are also available in the colors yellow (RAL1018), orange (RAL2003), red (RAL3018), blue (RAL5012), green (RAL6018) and black (RAL7021)  
Available custom printing over jacket upon request

Ordering Information	Description	PU	Part No.
	<b>Patch Cord Cat.6, U/UTP, 4P, LSZH, gray, RJ45/u-RJ45/u,</b> – Cable identification: U/UTP – Outer jacket: LSZH – Conductor diameter copper strand: AWG26/7 – Screened in pairs: no – Overall screen: no – Outer diameter: 5.6 mm		
	<b>0.5 m</b>	10	R302309
	<b>1.0 m</b>	10	R302310
	<b>1.5 m</b>	10	R302311
	<b>2.0 m</b>	10	R302312
	<b>3.0 m</b>	10	R302313
	<b>5.0 m</b>	10	R302314
	<b>7.5 m</b>	10	R302315
	<b>10.0 m</b>	10	R302316
	<b>12.5 m</b>	5	R302317
	<b>15.0 m</b>	5	R302318
	<b>20.0 m</b>	5	R302319
	<b>Patch Cord Real10 Cat.6, S/FTP, 4P, LSFRZH, gray, RJ45/s-RJ45/s,</b> – Cable identification: S/FTP – Outer jacket: LSFRZH – Conductor diameter copper strand: AWG26/7 – Screened in pairs: AL/foil – Overall screen: copper braid – Outer diameter: 6 mm		
	<b>0.5 m</b>	10	R302331
	<b>1.0 m</b>	10	R302332
	<b>1.5 m</b>	10	R302333
	<b>2.0 m</b>	10	R302334
	<b>3.0 m</b>	10	R302335
	<b>5.0 m</b>	10	R302336
	<b>7.5 m</b>	10	R302337
	<b>10.0 m</b>	10	R302338
	<b>12.5 m</b>	5	R302339
	<b>15.0 m</b>	5	R302340
	<b>20.0 m</b>	5	R302418



Ordering Information	Description	MOQ	Part Number
	<b>Patch Cord Real10 Cat.6, S/FTP, 4P, PUR, RJ45/s IP67- RJ45/s IP20,</b>		
	– Patch cords equipped with PUR jackets, ideal for use in harsh environments		
	– Fitted with one RJ45/s IP67 connector incl. protective cap and one RJ45/s IP20 connector		
	<b>2.5 m</b>	5	R313637
	<b>5 m</b>	5	R313638
	<b>7.5 m</b>	5	R313639
	<b>10.0 m</b>	5	R313636
	<b>Patch Cord Real10 Cat.6, S/FTP, 4P, PUR, RJ45/s IP67- RJ45/s IP67,</b>		
	– Patch cords equipped with PUR jackets, ideal for use in harsh environments		
	– Both sides fitted with RJ45/s IP67 connector incl. protective cap		
	<b>2.5 m</b>	5	R313641
	<b>5 m</b>	5	R313642
	<b>7.5 m</b>	5	R313643
	<b>10.0 m</b>	5	R313640


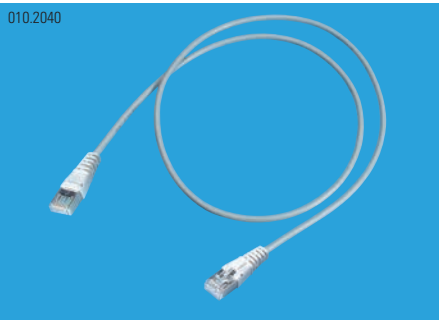








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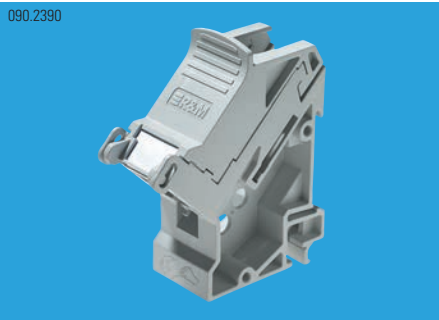
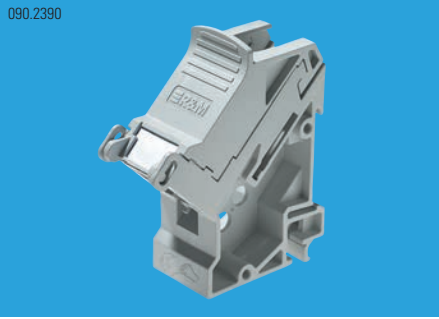
Tailor-made customer solutions.



Ordering Information	Description	MOQ	Part Number
	<b>Features</b>		
	– Suitable for transmission frequencies of $\geq 200$ MHz		
	– 100 Ohm impedance		
	– Available in shielded and unshielded versions		
	– Compliant with Cat.5e requirements of ISO/IEC 11801, EN 50173, EN 50168 and EIA/TIA 568-C		
	– Meet test specifications of EIA/TIA 568-C.2		
	– With R&M RJ45 connectors in acc. with IEC 60603-7 series		
	– Connection 1:1		
	<b>Patch Cord Cat.5e, U/UTP, 4P, PVC, gray, RJ45/u- RJ45/u,</b>		
	Cable identification: U/UTP.		
	Outer jacket: PVC.		
	Conductor diameter copper strand: AWG26/7.		
	Screened in pairs: no.		
	Overall screen: no.		
	Outer diameter: 5.1 mm.		
	<b>0.5 m</b>	10	R305014
	<b>1.0 m</b>	10	R305015
	<b>1.5 m</b>	10	R305019
	<b>2.0 m</b>	10	R305020
	<b>3.0 m</b>	10	R305021
	<b>5.0 m</b>	10	R305022
	<b>7.5 m</b>	10	R305023
	<b>10.0 m</b>	10	R305024
	<b>12.5 m</b>	5	R305025
	<b>15.0 m</b>	5	R305026
	<b>20.0 m</b>	5	R305027
	<b>Patch Cord Cat.5e, SF/UTP, 4P, LSFRZH, gray, RJ45/s- RJ45/s,</b>		
	Cable identification: SF/UTP.		
	Outer jacket: LSFRZH.		
	Conductor diameter copper strand: AWG26/7.		
	Screened in pairs: no.		
	Overall screen: copper braid + AL/foil.		
	Outer diameter: 5.5 mm.		
	<b>0.5 m</b>	10	R305039
	<b>1.0 m</b>	10	R305040
	<b>1.5 m</b>	10	R305041
	<b>2.0 m</b>	10	R305042
	<b>3.0 m</b>	10	R305043
	<b>5.0 m</b>	10	R305044
	<b>7.5 m</b>	10	R305045
	<b>10.0 m</b>	10	R305046
	<b>12.5 m</b>	5	R305047
	<b>15.0 m</b>	5	R305048
	<b>20.0 m</b>	5	R305049





The DRM adapter has been specifically developed to ensure convenient integration of data technology into 35 mm standard top-hat rails (DIN EN 50 022). It now offers universal applicability, saves space for its ideal format and is exceptionally easily mounted. The result is an effective and convincing support of the horizontal and vertical integration of system components.

Ordering Information	Description	MOQ	Part Number
	<b>DIN Rail Module DRM45, plastic</b> DIN Rail Module DRM45 for one RJ45 port, SC-RJ or E-2000™ Compact. Color: light gray (RAL 7035). Material: plastic (PC-GF10). Supplied: – DIN Rail Module DRM45 – Labeling strip – Instruction manual	10	R314000
	<b>DIN Rail Module DRM45, Real10 Cat.6/s, plastic</b> DIN Rail Module DRM45 and one connection module RJ45. Color: light gray (RAL 7035). Material: plastic (PC-GF10). Supplied: – DIN Rail Module DRM45 – Real10 Cat.6 connection module, RJ45/s incl. EMC cover and dust cover – Labeling strip – Instruction manual	1	R804257











Galvanic isolation has been developed for protection of medical equipment and systems against stray currents transported by data cables. Network isolators ensure a galvanic isolation of electrical medical devices and systems, in acc. with DIN EN 60601-1. Galvanic isolators are passive, electronic elements without a power supply of their own.

Ordering Information	Description	MOQ	Part Number
	<b>Safe Line Network Isolator, type A</b> Integrated, passive network isolator in compliance with ISO/IEC 60601-1 for the galvanic isolation of electrical devices for patient protection in medical applications.	1	R508359
	<b>Safe Line Network Isolator, type B-FDS</b> Integrated, passive network isolator in compliance with ISO/IEC 60601-1 for the galvanic isolation of electrical devices for patient protection in medical applications.	1	R802145





Ordering Information	Description	MOQ	Part Number
	<p><b>FM Global Outlet 88x88,</b> Suitable for flush-mounted (FM) and duct-mounted (DM) installations. For use with cover frames and duct covers of Ø 70 mm in diameter or 70x70 mm cutouts. Suitable for backboxes and floorbox module holders of Ø 60 mm mounting tracks. Recommended depth for backboxes and floorboxes min. 70 mm. Plastic: PC + ABS, halogen-free. Supplied:</p> <ul style="list-style-type: none"><li>– Cover frame 88x88 mm</li><li>– 2-part faceplate 60x60 mm</li><li>– M3x12 screws</li><li>– Blind cover (when used as a 1-port outlet)</li><li>– Mounting plate, steel</li><li>– Label strips, blank</li></ul> <p><b>2x1-Port, pure white</b> <b>2x1-Port, oyster white</b></p> <p> Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.</p>	10 10	R310788 R310789
	<p><b>FM Global Outlet 88x88,</b> Suitable for flush-mounted (FM) and duct-mounted (DM) installations. For use with cover frames and duct covers of Ø 70 mm in diameter or 70x70 mm cutouts. Suitable for backboxes and floorbox module holders of Ø 60 mm mounting tracks. Recommended depth for backboxes and floorboxes min. 70 mm. Plastic: PC + ABS, halogen-free. Supplied:</p> <ul style="list-style-type: none"><li>– Cover frame 88x88 mm</li><li>– 3-part faceplate 60x60 mm incl. fastening screws</li><li>– Mounting plate, 70x70 mm, steel</li><li>– Label strips, blank</li></ul> <p><b>3x1-Port, pure white</b></p> <p> Suitable for RJ45 connection modules with support plates.</p>	10	R507877





Ordering Information	Description	MOQ	Part Number
	<p><b>FM Global Outlet 88x88,</b> Suitable for flush-mounted (FM) and duct-mounted (DM) installations. For use with cover frames and duct covers of Ø 70 mm in diameter or 70x70 mm cutouts. Suitable for backboxes and floorbox module holders of Ø 60 mm mounting tracks. Recommended depth for backboxes and floorboxes min. 70 mm. Plastic: PC + ABS, halogen-free. Supplied:</p> <ul style="list-style-type: none"><li>– Cover frame 88x88 mm, pure white</li><li>– 4-part faceplate 60x60 mm</li><li>– M3x12 screws</li><li>– Mounting plate, steel</li><li>– Labeling strip, blank</li></ul> <p><b>4x1-Port, pure white</b></p> <p> Suitable for RJ45 special connection module.</p>	10	R305150
	<p><b>WM Global Outlet 80x80,</b> Suitable for surface-mounted installations on walls and in ducts. Housing plus wallplate measures 80x80x67.5 mm. Cable entry at the side or the back. For use with cover frames and duct covers of Ø 60 mm in diameter or 56x56 mm cutouts. Plastic: PC + ABS, halogen-free. Supplied:</p> <ul style="list-style-type: none"><li>– Cover frame 80x80 mm</li><li>– 2-part faceplate 60x60 mm</li><li>– M3x12 screws</li><li>– Blind cover (when used as a 1-port outlet)</li><li>– Mounting plate, steel</li><li>– Label strips, blank</li></ul> <p><b>2x1-Port, pure white</b></p> <p> Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.</p>	10	R310786

Outlets  
503 Outlets  
Flush-Mounted

مخارج معلومات  
503 مخارج طراز  
تنبيت سطحي



- Features**
- Suitable for flush installations on walls, in ducts (metal and plastic) and in service poles
  - For backboxes of 83.5 mm in horizontal mounting distance
  - Plastic halogen-free in acc. with DIN/VDE 0472/815

Ordering Information	Description	MOQ	Part Number
	<b>503 Outlet 117.5x72,</b> Plastic: PC, PC/ABS. Supplied: <ul style="list-style-type: none"><li>– Faceplate, type 503 for 2 RJ45 ports</li><li>– Blind cover (when used as a 1-port outlet)</li><li>– Label strips, blank</li></ul> <b>2x1-Port, pure white</b>  Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.	10	R510839
	<b>503 Outlet 118x72,</b> Plastic: PC, PC/ABS. Supplied: <ul style="list-style-type: none"><li>– Faceplate, type 503, for RJ45 snap-in connection modules</li><li>– Hidden screws</li><li>– 2 blind covers (when used as a 2-port outlet)</li><li>– Label strips</li></ul> <b>4x1-Port, pure white</b>  Suitable for RJ45 snap-in connection module.	10	R304275

Outlets  
BS Faceplates  
Flush-Mounted

مخارج معلومات  
BS مخارج طراز  
تنبيت سطحي



- Features**
- Suitable for flush and surface mount installations
  - Ready for the R&M security system
  - Including label window and exchangeable label strips
  - Recommended depth for backboxes and floorboxes ≥ 70 mm
  - Unibody design for convenience
  - Prominent R&M logo, Black color




Ordering Information	Description	PU	Part No.
	<b>BS Faceplate 2x1 port, pure white</b> Supplied: <ul style="list-style-type: none"><li>– Faceplate 86x86 mm for 2 RJ45 ports, including fastening screws</li><li>– Label strips</li><li>– 1 Blind cover (when used as a 1 port outlet)</li></ul> <b>2x1-Port, pure white</b>	1	R795068
	<b>BS Faceplate 3x1 port, pure white</b> Supplied: <ul style="list-style-type: none"><li>– Faceplate 86x86 mm for 2 RJ45 ports, including fastening screws</li><li>– 2 Label strips</li><li>– 1 Blind cover (when used as a 2 port outlet)</li></ul> <b>3x1-Port, pure white</b>	1	R795069
	<b>BS Faceplate 4x1 port, pure white</b> Supplied: <ul style="list-style-type: none"><li>– Faceplate 86x86 mm for 2 RJ45 ports, including fastening screws</li><li>– 2 Label strips</li></ul> <b>4x1-Port, pure white</b>	1	R795070



Outlets  
Flap Jack Module Holder (Type 6C)  
Flush-Mounted



- Features**
- Suitable for flush and wall mounting
  - Matching standard British cutout dimensions (6C)
  - The horizontal design requires only half the space for RJ45 modules compared to other solutions
  - The angled entry (45°) provides maximum cable protection
  - Halogen-free in acc. with DIN/VDE 0472/815

Ordering Information	Description	PU	Part No.
	<b>Module Holder Flap Jack (Type 6C),</b> – Plastic: PC Supplied: – Flap Jack Module Holder – Instructions manual		
	<b>Module Holder Flap Jack (Type 6C), 1-Port, pure white</b>	20	R303155
	<b>Module Holder Flap Jack (Type 6C), 1-Port, jet black</b>	20	R305702
	<b>Mounting Plate Flap Jack 86x86,</b> – Plastic: PC <b>2x1-Port, pure white</b>	20	R303154
	<b>Module Holder (Type 6C), For FloorBox</b> – Plastic: PC Supplied: – Module Holder – Instructions manual <b>Module Holder FloorBox (Type 6C), 1-Port, pure white</b>		
		1	R135856




مخارج معلومات  
مخارج معلومات  
تثبيت سطحي

6C طراز Flap Jack

Outlets  
Shuttered "Fascia"  
Flush-Mounted



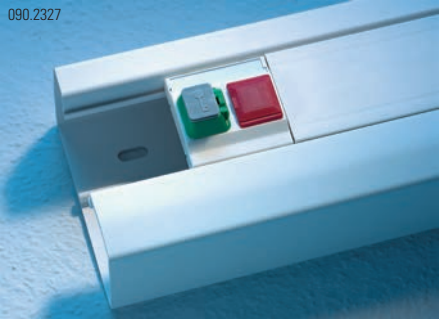
- Features**
- Suitable for flush installations and combined with a mounting frame also for surface mounting
  - Wall plate dimensions 86x86 mm featuring a 50x50 mm cutout for 2 module holders
  - The 2-port outlet can be turned into a 1-port outlet by using a blind cover
  - Recommended depth for backboxes and floorboxes ≥ 70 mm

Ordering Information	Description	PU	Part No.
	<b>Shuttered "Fascia" 86x86,</b> – 50x50 mm cutout for two mounting plates/blind cover – Plastic: ABS <b>2x1-Port, pure white</b>	20	R925895
	<b>Mounting Plate "Fascia" 25x50,</b> – Plastic: ABS <b>1-Port, pure white</b>	20	R925842
	<b>Blind Cover "Fascia" 25x50,</b> – Plastic: ABS <b>1-Port, pure white</b>	40	R925897

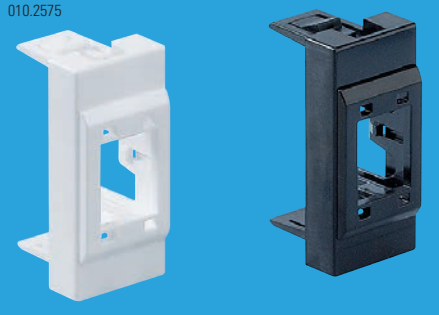
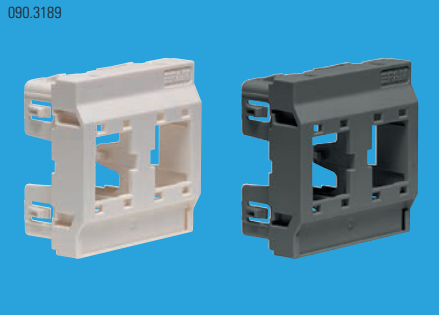


مخارج معلومات  
مخارج معلومات ذاتية الانغلاق  
تثبيت سطحي

Outlets  
Mounting Plates 45x45  
Duct-Mounted

مخارج معلومات  
45x45 مخارج  
تنبيت مجرى



- Features**
- These mounting plates require a standard cutout of 45x45 mm
  - Ready for the R&M security system
  - Angled RJ45 entry for maximum cable protection
  - Recommended depth for backboxes and floorboxes ≥ 70 mm




Ordering Information	Description	MOQ	Part Number
	<b>Mounting Plate 22.5x45,</b> Supplied: <ul style="list-style-type: none"><li>– Faceplate 22.5x45 mm, flat</li><li>– Module holder for one RJ45 connection module</li></ul>	10	R307835
	<b>1-Port, white</b> <b>1-Port, black</b>	10	R307837
	<b>Mounting Plate 45x45,</b> Plastic: PC/ABS. Supplied: <ul style="list-style-type: none"><li>– Double mounting plate 45x45 mm, flat, for holding two RJ45 connection modules</li><li>– Blind cover (when used as 1-port outlet)</li><li>– Label strips, blank</li></ul>	10	R313333
	<b>2x1-Port, jet black</b> <b>i</b> Suitable for RJ45 connection modules and FO connectors with support plates.		
	<b>Angled Mounting Plate 45x45,</b> Plastic: PC/ABS. Supplied: <ul style="list-style-type: none"><li>– Mounting plate 45x45mm with angled exit, for holding one RJ45 connection module</li><li>– Label strips, blank</li></ul>	10	R506663
	<b>1-Port, pure white</b> <b>i</b> Suitable for RJ45 connection modules and FO connectors with support plates.		
	<b>Angled Mounting Plate 45x45,</b> Plastic: PC/ABS. Supplied: <ul style="list-style-type: none"><li>– Double mounting plate 45x45mm with angled exit, for holding two RJ45 connection modules</li><li>– Blind cover (when used as 1-port outlet)</li><li>– Label strips, blank</li></ul>	10	R313332
	<b>2x1-Port, pure white</b> <b>2x1-Port, jet black</b> <b>i</b> Suitable for RJ45 connection modules and FO connectors with support plates.	10	R313331

Outlets  
Outlets IP54  
Surface- and Flush-Mounted

مخارج معلومات  
IP54 مخارج حماية  
تنبيت سطحي وعلى الحائط



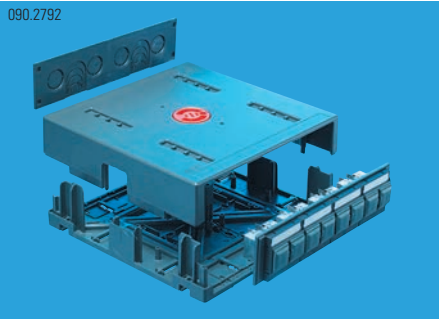
- Operational scope:**
- Suitable for surface and flush mounting in wet locations
  - Water and dust protected in accordance with IP 54 (Quinel)
  - Temperature range of -25°C to +80°C (-40°C to +80°C for storage and transport)
  - Steam, hot water, oils
  - Condensation
  - Salty water environment
  - Dust in any form
  - Air pollution in general (non acid)

Ordering Information	Description	MOQ	Part Number
	<b>FM Connection Box Splash Line IP54, 87x87,</b> Color: pure white (RAL 9010). Supplied: <ul style="list-style-type: none"><li>– Foam-rubber padded mounting frame</li><li>– Cover frame</li><li>– Round central plate including O-ring and fastening screws</li><li>– Label strips</li><li>– Label window</li><li>– Instruction manual</li></ul>	1	R307037
	<b>1x1-Port, white</b> <b>2x1-Port, white</b>	1	R307036
	<b>SM Connection Box Splash Line IP54, 87x87,</b> Color: pure white (RAL 9010). Supplied: <ul style="list-style-type: none"><li>– Bottom part surface-mounted housing</li><li>– Foam-rubber padded mounting frame</li><li>– Cover frame</li><li>– Round central plate including O-ring and fastening screws</li><li>– Label strips</li><li>– Label window</li><li>– Instruction manual</li></ul>	1	R307038
	<b>1x1-Port, white</b> <b>2x1-Port, white</b> <b>i</b> Also mountet on DIN top-hat rail. Cable glands M20x1.5 (min. IP55) not included.	1	R307039
	<b>Mounting Frame IP54</b> For round cut-outs, M32 (Ø 32 mm). Compatible with RJ45 and FO module. Supplied: <ul style="list-style-type: none"><li>– Mounting frame</li><li>– Gasket</li><li>– 4 fastening screws</li><li>– Installation instructions</li></ul>	10	R313733



Ordering Information	Description	MOQ	Part Number
010.1371	<b>A4 Label Sheet,</b> For labeling: – 503 outlets, 4x1-port, – US faceplates, 6x1-port, Supplied: – A4 sheet of 48 perforated label strips (blank) – Paper thickness 0.15 mm <b>48x 70.3x9.7 mm</b>	10	R300318
010.0932	<b>A4 Label Sheet,</b> For labeling: – SM Global outlet 80x80, 2x1-port, – SM Global outlet blind 80x80, – FM Global outlet 88x88, 2x1-port, – FM Global outlet blind 88x88, – DM Global outlet 80x86, 2x1-port, – DM Global outlet blind 80x86, – DM Global outlet 84x84, 2x1-port, – BS Faceplate 86x86, 2x1-port, – BS Faceplate 86x86, 3x1-port, – BS Faceplate 86x86, 4x1-port, Supplied: – A4 sheet of 104 perforated label strips (blank) – Paper thickness 0.15 mm <b>104x 50x9 mm</b>	1	R312102
	<b>i</b> Get a free MS Word template at our website ( <a href="http://www.rdm.com/universe">www.rdm.com/universe</a> ) for fast and professional labeling.		
010.0932	<b>A4 Label Sheet,</b> For labeling: – DM outlets Ø 62.5, 2x1-port, – 503 outlets, 2x1-port, – US faceplates, 2x1-port, – FM and SM outlets, 6x2x1-port, Supplied: – A4 sheet of 84 perforated label strips (blank) – Paper thickness 0.15 mm <b>84x 55.6x8.8 mm</b>	10	R925702
010.2161	<b>A4 Label Sheet,</b> For labeling: – Mounting Plates 45x45, Supplied: – A4 sheet of 85 perforated label strips (blank) – Paper thickness 0.15 mm <b>120x 42.5x8.1 mm</b>	1	R313397

Ordering Information	Description	MOQ	Part Number
090.2099	<b>Adapter No. 1</b> For use with different third-party faceplates. Can be fitted with the R&M special connection module.	20	R310694
010.2556	<b>Module Holder RJ45 / E-2000™-Compact / SC-RJ / Universal Adapter,</b> Module holder for RJ45 connection modules, E-2000™-Compact, SC-RJ adapter or universal adapters with mounting plates. <b>white</b> <b>black</b>	10 10	R307832 R307833
80G2505	<b>Outlet Connection Module Holder,</b> Color: white (RAL 9010). <b>1xRJ45</b> <b>2xRJ45</b>	10 10	R925380 R925381
010.0934	<b>Blind Cover Universal,</b> For covering one unused port on a connection module. Snapped-on instead of a coding system. <b>white</b>	100	R925719



- Features**
- High packing density, 16-port
  - Platform for power, data and communications
  - Eight different fronts, anthracite (RAL 7016)
  - High load of at least 200 kg
  - Low fire load V-0, halogen free
  - Standard conforming separation
  - Connector for stacking, raising, fixing, alignable
  - Lateral breakout points and cable gland
  - Compact size

**i** On request all the boxes are delivered equipped and wired.

Ordering Information	Description	MOQ	Part Number
	<b>U-Box Housing with Cable Grommet Screen</b> Platform for structured cabling systems. Supplied: <ul style="list-style-type: none"><li>– Box with bottom and cover</li><li>– Cable grommet</li><li>– 6 mounting clips</li><li>– Installation instructions</li></ul>	1	R317073
	<b>U-Box Housing, empty</b> Platform for structured cabling systems. Supplied: <ul style="list-style-type: none"><li>– Box with bottom and cover</li><li>– 6 mounting clips</li><li>– Installation instructions</li></ul>	1	R317082
	<b>U-Box Faceplate 4x45x45</b> For data and power installations in 45x45 mm mounting dimensions.	10	R317074
	<b>U-Box Faceplate 3xFLF</b> For data and power installations in 54x32 mm FLF mounting dimensions.	10	R317075

Ordering Information	Description	MOQ	Part Number
	<b>Radius Limiter R20</b> Radius limiter 20 mm for FO excess cable.	1	R318804
	<b>U-Box Faceplate 8xRJ45 Snap-in</b> For RJ45 Snap-in connection modules.	10	R317076
	<b>U-Box Faceplate 2x 10xRJ45 Voice Module</b> For 2 connection modules 10xRJ45. Supplied: <ul style="list-style-type: none"><li>– Screen</li><li>– 4 screws KA30x6 mm</li></ul>	5	R317078
	<b>U-Box Faceplate 8xPower Snap-in</b> For Wago, Wieland Snap-in connectors in 15.6x33 mm mounting dimensions.	10	R317077
	<b>U-Box Faceplate Blind</b> For special applications.	1	R317079



Ordering Information	Description	MOQ	Part Number
090.2766	<b>U-Box Faceplate 4x45x45, power Italy</b> For mosaic sockets, Italy.	5	R317091
090.2767	<b>U-Box Faceplate Cable Entry</b> For 4 screwed cable glands M20 to M25 and 2 cable grommets, 4 levels.	10	R317080
090.2760	<b>U-Box Separation Cover</b> Internal cover to separate data from power.	1	R317081
090.2643	<b>Terminal Block, pluggable</b> Plug-in Terminal 5x2.5 mm² (N, PE).	10	R317083
090.2642	<b>Terminal Block, screwed</b> Screw Terminal 5x2.5 mm² (N, PE).	1	R317084

Ordering Information	Description	MOQ	Part Number
090.5815	<b>Features</b> <ul style="list-style-type: none"><li>– The underfloor housing (Raised Floor Box) serves as zone distributor area (ZDA) or consolidation point in data centers.</li><li>– Installed in the raised floor, the housing offers room for 288 connections.</li><li>– The steel housing neatly fits the 600x600 millimeter grid dimensions.</li><li>– This solution has been designed for raised floors in data centers and is therefore advantageous for the space requirements in 19" distribution cabinets.</li></ul>		
090.5815	<b>Raised Floor Box, metal,</b> The underfloor housing serves as zone distributor area (ZDA) or consolidation point in data centers. Installed in the raised floor, the housing offers room for 288 connections. The steel housing neatly fits the 600x600 millimeter grid dimensions. Supplied: <ul style="list-style-type: none"><li>– Steel box IP20</li><li>– Keyed cover</li><li>– 19" integration supported by mounting angles</li><li>– Velcro tape 20 x 400 mm</li><li>– Installation instructions</li></ul> <b>179.5x550x580 mm</b>	1	R512692
090.5814	<b>Mounting brackets, raised floor box, metal</b> For a freely adjustable positioning of the raised floor box in hollow floors of 250 mm and more. Supplied: <ul style="list-style-type: none"><li>– 2 back mount frames for 600 x 600 mm (grid size)</li><li>– 4 mounting clamps for column holder</li><li>– 8 mounting screws for column holder</li><li>– Installation instructions</li></ul>	1	R512693

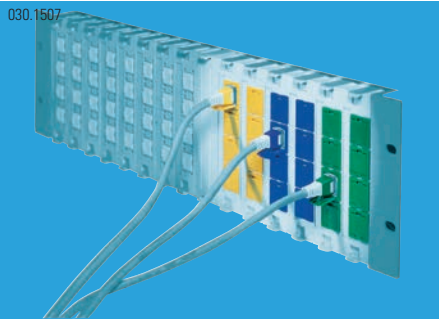


- Features**
- Flexible workplace accessing
  - Double cable strain relief provided by FLEXkanal holder
  - Accepted power outlets German, Swiss, Belgian/French and British, Italian, US, Chinese, Australian
  - Accepted data communication components: mounting plate for connection module RJ45, SC-RJ and E-2000™ Compact
  - Accepted multimedia components: Chinch, VGA 15-pin, USB"A"
  - Mounting plate features R&M Smartholes for the R&M security system
  - All boxes come equipped, wired and connector-ready on request
- i** On request equipped with:
- Schuko (white, black, orange)
  - T13 (white, black, orange)
  - Switch / Pushbutton (white, black)
  - USB, VGA and chinch jack (white, black)

Ordering Information	Description	MOQ	Part Number
	<b>DESKbox empty, 4x45x45,</b> All installations with 45x45 mm installation track for data and power connections. Supplied: – Box, empty, ready to be fitted with 4 devices (45x45mm) – 4 plastic base units – Cable entry at the back – FLEXkanal holder featuring double strain relief		
	<b>clear (transparent)</b>	1	R307791
	<b>blue (transparent)</b>	1	R307792
	<b>green (transparent)</b>	1	R307793
	<b>orange (transparent)</b>	1	R307794
	<b>anthracite</b>	1	R309571
	<b>light gray</b>	1	R313972
	<b>pure white</b>	1	R313971
	<b>DESKbox empty, 8x45x45,</b> All installations with 45x45 mm installation track for data and power connections. Supplied: – Box, empty, ready to be fitted with 8 devices (45x45mm) – Linking bottom plate, metal – 8 plastic base units – Cable entry at the back (box left) – FLEXkanal holder featuring double strain relief		
	<b>clear (transparent)</b>	1	R307797
	<b>blue (transparent)</b>	1	R307798
	<b>green (transparent)</b>	1	R307799
	<b>orange (transparent)</b>	1	R307800
	<b>anthracite</b>	1	R309709
	<b>light gray</b>	1	R314319
	<b>pure white</b>	1	R314320
	<b>DESKbox fully populated, 4xSchuko/white,</b> Supplied: – Box, empty – Assembled with 4 Schuko sockets – 4 plastic base units – Cable entry at the rear – FLEXkanal holder featuring double strain relief		
	<b>clear (transparent)</b>	1	R307801
	<b>blue (transparent)</b>	1	R307802

Ordering Information	Description	MOQ	Part Number
	<b>DESKbox partly populated, 3xSchuko/white-2xRJ45/white,</b> Supplied: – Box, empty , Assembled with 3 Schuko sockets/white – Assembled with 1 faceplate/white for 2 RJ45 modules incl. single support plate (without modules) – 4 plastic base units, Cable entry at the rear – FLEXkanal holder featuring double strain relief		
	<b>clear (transparent)</b>	1	R307787
	<b>blue (transparent)</b>	1	R307788
	<b>green (transparent)</b>	1	R307789
	<b>orange (transparent)</b>	1	R307790
	<b>DESKbox partly populated, 2xSchuko/orange-4xRJ45/white,</b> Supplied: – Box, empty – Assembled with 2 Schuko sockets/orange – Assembled with 2 faceplates/white for 4 RJ45 modules incl. single support plate (without modules) – 4 plastic base units, Cable entry at the rear – FLEXkanal holder featuring double strain relief		
	<b>clear (transparent)</b>	1	R307805
	<b>blue (transparent)</b>	1	R307806
	<b>DESKbox partly populated, 3xSchuko/black-2xRJ45/black-Schuko plug/5m,</b> Supplied: – Box, empty, Assembled with 3 Schuko sockets/black – Assembled with 1 faceplate/black for 2 RJ45 modules incl. single support plate (without modules) – 230V power cable 3 x 1.5 mm², 5 m, with Schuko plug – Wired to clamp 5 x 2.5 mm² – 4 plastic base units, Cable entry at the back – FLEXkanal holder featuring double strain relief		
	<b>anthracite</b>	1	R314430
	<b>Plastic Base, adhesive,</b> For a firm grip of the boxes on smooth surfaces. <b>qty 4</b>	1	R307786
			
	<b>3M Dual Lock,</b> For fastening the boxes - on or underneath the work desk. <b>qty 2, 25x20 mm</b>	1	R307785





Security level 1 (visual color coding)

The visual color coding supports correct connecting of the respective copper and fiberoptic cables. The color coding clips are easily clipped to connection cables and ports (outlets, patch panels). When applications are reassigned within the network, the color coding elements are simply moved or replaced, no tools needed.


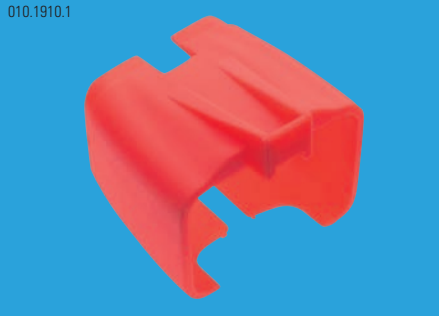
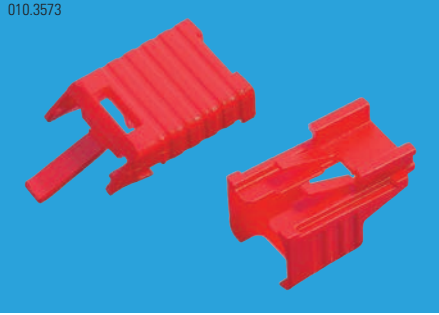

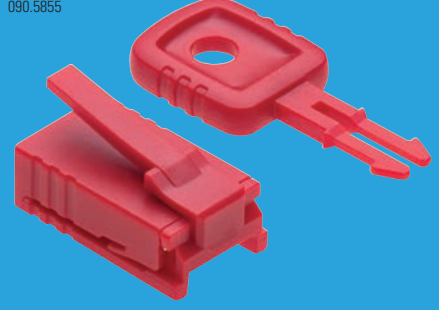
Ordering Information	Description	MOQ	Part Number
010.1885.1	<b>Hinged Dust Cover,</b> Dust cover and color coding for RJ45 outlets and patch panels. Fitting R&M Smartholes.		
	<b>anthracite</b>	10	R305685
	<b>blue</b>	10	R305686
	<b>brown</b>	10	R305687
	<b>yellow</b>	10	R305688
	<b>gray</b>	10	R305689
	<b>green</b>	10	R305690
	<b>red</b>	10	R305691
	<b>violet</b>	10	R305692
	<b>white</b>	10	R305693
090.6147	<b>HD Hinged Dust Cover,</b> Dust cover and color coding for HD patch panel.		
	<b>anthracite</b>	10	R512748
	<b>blue</b>	10	R512749
	<b>brown</b>	10	R512750
	<b>yellow</b>	10	R512751
	<b>gray</b>	10	R512752
	<b>green</b>	10	R512753
	<b>red</b>	10	R512754
	<b>violet</b>	10	R512755
	<b>white</b>	10	R512756
010.1696	<b>Color Coding RJ45 Connector,</b> Color coding for RJ45 patch cords and consolidation point patch cords.		
	<b>anthracite</b>	20	R302342
	<b>blue</b>	20	R302343
	<b>brown</b>	20	R302344
	<b>gray</b>	20	R302347
	<b>violet</b>	20	R302420
090.2713	<b>Easy Latch RJ45 Connector,</b> Easy Latch for RJ45 patch cords and consolidation point patch cords.		
	<b>anthracite</b>	20	R317100
	<b>blue</b>	20	R317094
	<b>brown</b>	20	R317095
	<b>yellow</b>	20	R317096
	<b>gray</b>	20	R317097
	<b>green</b>	20	R317098
	<b>red</b>	20	R317099
	<b>violet</b>	20	R317093

Ordering Information	Description	MOQ	Part Number
010.1713	<b>Snap-in Coding Clip,</b> Color coding clip for snap-in adapters and the multimedia outlet.		
	<b>anthracite</b>	10	R302151
	<b>blue</b>	10	R302152
	<b>brown</b>	10	R302153
	<b>green</b>	10	R302154
	<b>violet</b>	10	R302156
	<b>white</b>	10	R302157
	<b>yellow</b>	10	R302158
010.2208	<b>Snap-in Frame</b> Supplied: – Snap-in frame	10	R316946
090.2855	<b>Color Coding RMS45,</b> Matching the RMS45 insert and RMS45 plugs, 1- and 2-pair. Four color codings per block.		
	<b>anthracite</b>	10	R319031
	<b>blue</b>	10	R319024
	<b>brown</b>	10	R319025
	<b>yellow</b>	10	R319026
	<b>gray</b>	10	R319027
	<b>green</b>	10	R319028
	<b>red</b>	10	R319029
	<b>violet</b>	10	R319030
090.5608	<b>Color Coding FM45 Metal Housing, IP20,</b> Matching the FM45 connector housing IP20, metal.		
	<b>blue</b>	10	R510661
	<b>brown</b>	10	R510664
	<b>yellow</b>	10	R510659
	<b>gray</b>	10	R510662
	<b>green</b>	10	R510663
	<b>red</b>	10	R510665
	<b>violet</b>	10	R510660
	<b>anthracite</b>	10	R510658
090.2158	<b>FM45 Color Coding Clip,</b> Color coding for connector FM45.		
	<b>blue</b>	10	R311580
	<b>brown</b>	10	R311569
	<b>yellow</b>	10	R311579
	<b>gray</b>	10	R311570
	<b>green</b>	10	R311577
	<b>red</b>	10	R311571
	<b>violet</b>	10	R311575
	<b>anthracite</b>	10	R311561

Ordering Information	Description	MOQ	Part Number
010.2134	<b>Splash Cap IP54,</b> Offering dust protection and color coding to data outlets and patch panels. The cap with its rubber seal provide protection class IP54. Supplied: – Splash cap – Rubber seal – Installation manual <b>white</b> <b>blue</b> <b>red</b> <b>yellow</b> <b>green</b>	10 10 10 10 10	R306063 R306058 R306062 R306060 R306061
010.2127	<b>Splash Sleeve IP54,</b> Elastic, transparent rubber sleeve suitable for all RJ45 patch cords. Together the Splash sleeve and the Splash cap offer protection class IP54. <b>transparent</b>	10	R306064
090.3111	<b>Splash Sleeve Universal IP54,</b> Elastic, transparent rubber sleeve suitable for RJ45, FM45 IP20, E-2000™, E-2000™-Compact, LC-Duplex, SC, SC-RJ and SMI patch cords. Together the Splash sleeve universal and the Splash cap universal offer protection class IP54. <b>transparent</b>	10	R320385
010.3209	<b>Color Coding IP67, type 06, plastic</b> Color coding clips suitable for RJ45 IP67 connectors, SC-RJ IP67 connectors and adapter frames. Supplied: – 50 coding clips, white – 50 coding clips, blue – 50 coding clips, orange – 50 coding clips, yellow	1	R310262
090.2042	<b>Plug Reduction Frame RJ45 onto RJ11/RJ12</b> Prevents RJ45 plugs (data) being plugged into RJ45 outlets defined as telephone sockets (RJ11 connectors) by mistake. Compatible with R&M RJ45 modules.	10	R310835

Ordering Information	Description	MOQ	Part Number
010.3116	<b>Security level 3 (mechanical plug-out / plug-in protection)</b> These products introduce future-proof security to network connections. Only trained and authorized staff can release copper or fiberoptic connections. Copper and FO connectors can also be lock-protected for authorized plug-in only.		
010.1880.1	<b>Plug Guard RJ45,</b> RJ45 connection protection for outlets and patch panels. Fitting R&M Smartholes. Supplied: – Plug Guard – 1 key per packing unit <b>green</b> <b>white</b> <b>red</b>	20 20 20	R304825 R304827 R304826
010.2289	<b>Jack Guard</b> RJ45 plug-in protection for outlets and patch panels. Fits Plug Guard. Supplied: – Jack Guard – 1 key per packing unit	20	R307199
090.2289	<b>Key Plug Guard / Fiber Guard</b> Key and key-ring to Plug Guard and Fiber Guard.	1	R304828
090.6148	<b>HD Plug Guard RJ45,</b> RJ45 connection protection for HD patch panels. Supplied: – HD Plug Guard – 1 key per packing unit <b>green</b> <b>white</b> <b>red</b>	20 20 20	R512757 R512758 R512759



Ordering Information	Description	MOQ	Part Number
090.6149 	<b>Key HD Plug Guard</b> Key to HD Plug Guard.	1	R512760
010.1910.1 	<b>Safe Clip</b> Locking element for RJ45 patch cords (R&M standard patch cords), protecting connections from being unplugged by mistakes.	20	R304807
010.3573 	<b>Patch Guard RJ45</b> Lockable plug-out protection for RJ45 connecting cables (R&M standard patch cables). Supplied: – Patch Guard, top part – Patch Guard, bottom part – 1 key per packing unit	20	R313814
090.2288 	<b>Key Patch Guard RJ45</b> This Patch Guard key releases locked RJ45 connectors. Supplied: – Key plus keyring	1	R313815
090.5855 	<b>Port Guard RJ45</b> RJ45 plug-in protection for outlets and patch panels. Supplied: – Port Guard – Key	20	R510854

Ordering Information	Description	MOQ	Part Number
010.2730 	<b>Features</b> – For an organized and protected cable routing up to your desk – For connecting deskboxes with cable ducts or floor connection boxes – Integral cable organization in two channels  <b>Capacity per channel:</b> – 2 cables of Ø-8.5 mm or 3 cables of Ø-7.5 mm or 4 cables of Ø-7.0 mm or 5 cables of Ø-6.0 mm		
010.2615 	<b>FLEXkanal,</b> For an organized and protected cable routing up to your desk, connecting deskboxes with cable ducts or floor connection boxes. Integral cable organization in two channels. Length 1 m in extended form. <b>black gray (RAL 7021)</b> <b>light gray (RAL 7035)</b> <b>white (RAL 9010)</b> <b>red (RAL 3020)</b> <b>ultramarine (RAL 5002)</b> <b>yellow (RAL 1023)</b> <b>yellow/black gray (RAL 1023/7021)</b>	1 1 1 1 1 1 1	R302724 R307688 R307689 R307976 R307690 R307831 R307830
010.2613 	<b>FLEXkanal Floor Rail</b> Fix the rail on the floor, press the FLEXkanal into it. The angled sides minimize the tripping risk. <b>1 m, anthracite (RAL 7016)</b> <b>2 m, anthracite (RAL 7016)</b>	10 10	R307700 R307701
010.2608 	<b>FLEXkanal T-piece,</b> T-piece junction for workplace branching. Supplied: – FLEXkanal floor T-piece – FLEXkanal T-piece cover <b>anthracite (RAL 7016)</b>	10	R307703
010.2571 	<b>FLEXkanal Holder,</b> The FLEXkanal directly fits the holder. Fastened with screws. Supplied: – FLEXkanal adapter – 2 strain relief brackets – 4 screws KA 30x10 mm <b>anthracite</b>	10	R307476

Ordering Information	Description	MOQ	Part Number
010.2573	<b>FLEXkanal Support,</b> The FLEXkanal is hooked behind the fastening brackets. Fastened with countersunk screws. <b>aluminum</b>	10	R307696
010.2572	<b>FLEXkanal Adhesive Tape,</b> Both-sides adhesive tape. <b>15x25 mm</b>	10	R307697
010.2609	<b>FLEXkanal Suspender</b> FLEXkanal suspender. Can also be screwed on underneath the desk. Supplied: – Suspender – Bracket – Fastening screw	10	R307694

Ordering Information	Description	MOQ	Part Number
090.2194	<b>Cable Passage Ø 95 with FLEXkanal Link, anthracite</b> Cable grommet for use in raised floor featuring FLEXkanal link. Color: anthracite RAL 7016. Required-Ø: 95 mm.	1	R312767
090.2253	<b>Cable Passage 50x125, Frame + Lamella</b> Required cutout size: 50x125 mm. Color: anthracite RAL 7016. Supplied: – Frame 50x125 mm – Cable passage with lamella – Fastening kit	1	R312768
090.2254	<b>Cable Passage 50x125, FLEXkanal Link</b> Cable passage with FLEXkanal link. Color: anthracite RAL 7016.  <b>i</b> Excluding frame 50x125 mm	1	R312766
010.2583	<b>Cable Passage 123x46.5</b> Cable passage holder, made of stainless sheet steel and featuring 3 fastening holes. Dimensions: 123x46.5x19 mm.	1	R307826
010.2584	<b>Cover with Brush for Cable Passage 123x46.5</b> Insert for cable passages, to slide in from the side, featuring a brush. Dimensions: 120x45x4 mm.	1	R307824

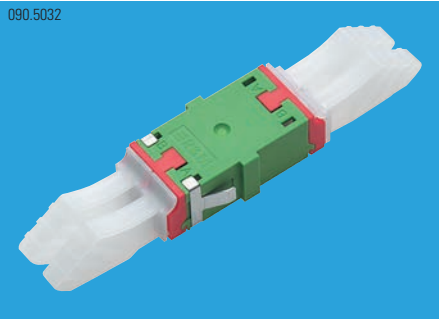




Ordering Information	Description	MOQ	Part Number
	<b>Termination Tool Cat.6A ISO</b> Termination tool for the R&M Cat.6A (ISO) module. Closes reliable all four levers of the RJ45 with one operation and terminates all 4 pairs at the same time. Helps to reduce termination time and increases ease of operation when bigger numbers of Cat.6A (ISO) modules have to be terminated. A fold out metal hook helps with opening the module and with removing the wires from the IDC.	1	R516050
	<b>Cable Preparation Tool Cat.6A ISO</b> Cable preparation tool, black/red, for PIMF cables. Fast and easy cable preparation. Reduces termination time. Ideally suited for cable preparation for the R&M Cat.6A ISO connection module.	1	R804325
	<b>Replacement Blade Set for Cable Preparation Tool Cat.6A ISO</b> Replacement blade set for cable preparaiton tool Cat.6A ISO. Contains two blade inserts. Especially suitable for PIMF cables.	1	R804326
	<b>Cable Jacket Stripper</b> Stripping tool, red, for round and oval cables up to Ø-11 mm.	1	R300682



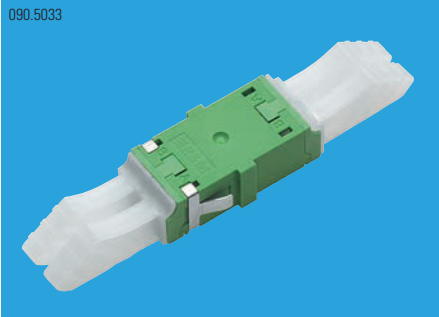




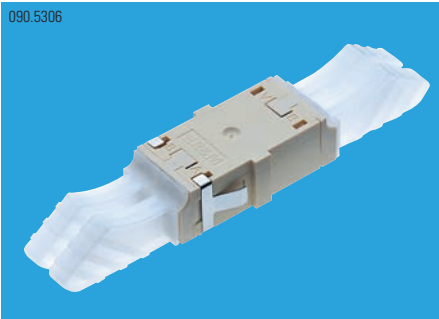
- Features**
- Compact design (SFF)
  - Outstanding optical performance
  - Twice as many terminations as regular connector types
  - Duplex adapter fits in SC Simplex cutout
  - Integral self-closing metal laser protection flaps
  - Semi-transparent plastic dust cover, allowing optical testing with test lasers without removing the cover

**i** Ceramic = zirconia ceramic alignment sleeve

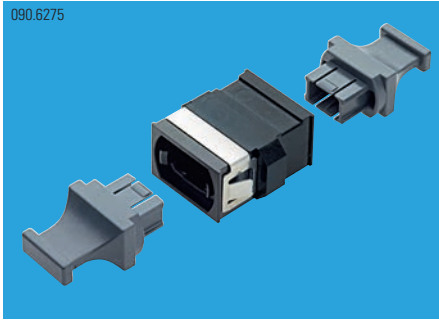
Ordering Information	Description	MOQ	Part Number
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<b>Adapter LC-Duplex</b> LC-Duplex adapter flangeless with semi-transparent dust caps. Quick mounting clip integrated. Color coding: adapter / frame - frame.		
<b>APC, green/green-green, ceramic SM, C, flangeless</b>	12	R501572
<b>APC, green/green-non, ceramic SM, C, flangeless</b>	12	R510780
<b>PC, blue/blue-blue, ceramic SM, C, flangeless</b>	12	R501469
<b>PC, blue/blue-non, ceramic SM, C, flangeless</b>	12	R510779
<b>PC, blue/blue-blue, PhBr SM, D, flangeless</b>	12	R500202

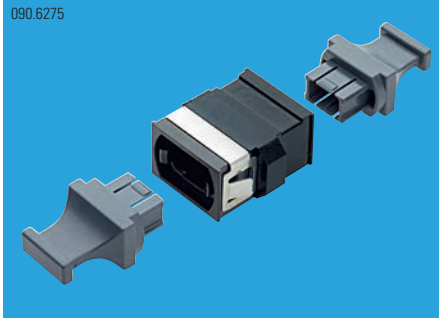


<b>Adapter LC-Duplex</b> LC-Duplex adapter flangeless with semi-transparent dust caps. Quick mounting clip integrated. Color coding: adapter / frame - frame.		
<b>PC, beige/turquoise-turquoise, ceramic MM, M, flangeless</b>	12	R805788
<b>PC, beige/beige-beige, ceramic MM, M, flangeless</b>	12	R500145
<b>PC, beige/beige-beige, PhBr MM, N, flangeless</b>	12	R501487

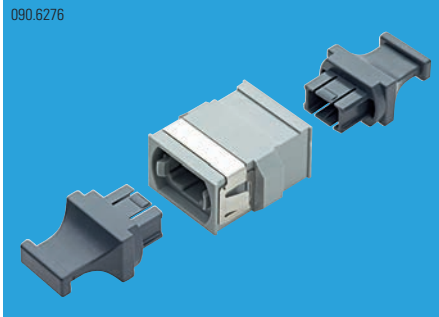


- Features**
- Compact design, accomodating 8-, 12- or 24-fiber MTP or MPO connectors
  - High precision alignment
  - Supplied with two dust caps
  - Available in black (type A) or gray (type B)

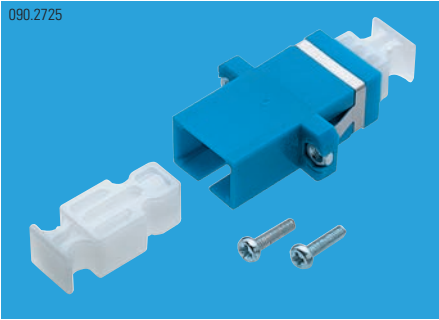
Ordering Information	Description	MOQ	Part Number
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<b>Adapter MTP, type A, black, flangeless</b> MTP adapter flangeless for SC footprint. Quick mounting clip integrated. Supplied: – Adapter MTP – 2 dust caps	12	R803947
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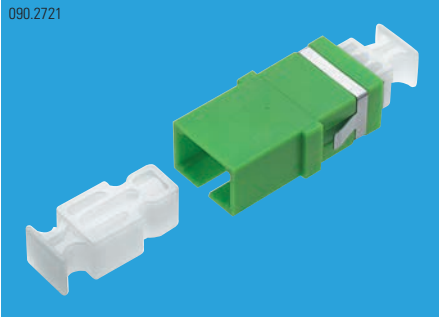
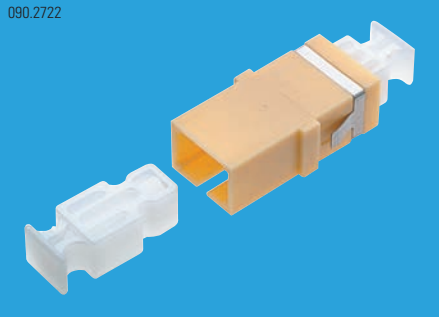
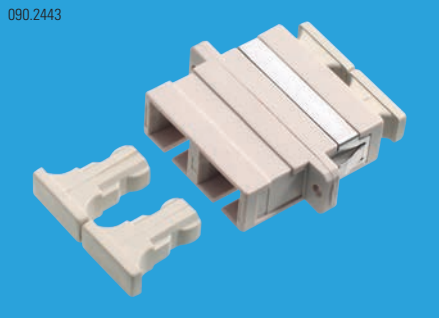
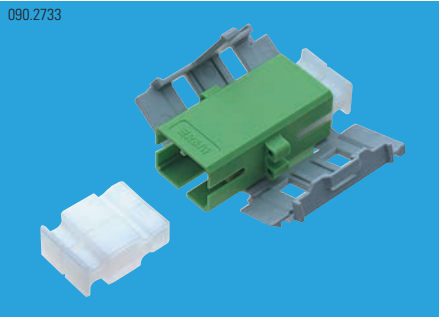


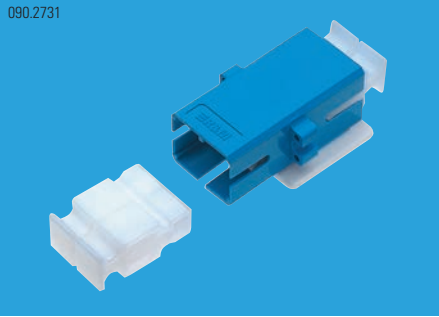
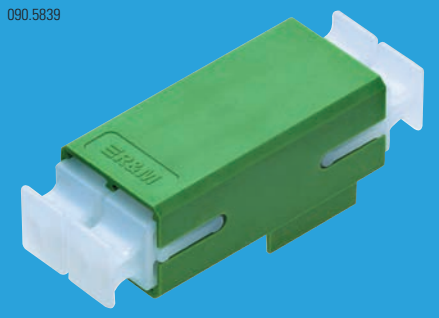

<b>Adapter MTP, type B, gray, flangeless</b> MTP adapter flangeless for SC footprint. Quick mounting clip integrated. Supplied: – Adapter MTP – 2 dust caps	12	R803948
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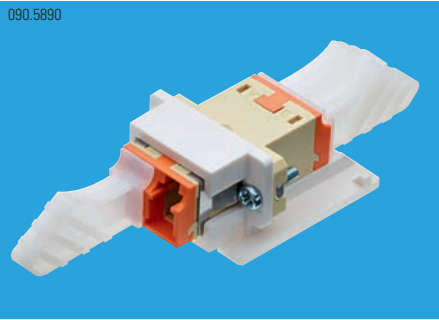
- Features**
- Injection-molded PBT housing, UL 94 V-0 (flammability index)
  - Split ceramic sleeve
  - 500 mating cycles

**i** Ceramic = zirconia ceramic alignment sleeve

Ordering Information	Description	MOQ	Part Number
	<b>Adapter SC</b> SC adapter flangeless with semi-transparent dust caps. Quick mounting clip integrated.		
	<b>APC, green, ceramic SM, B, flangeless</b>	12	R503783
	<b>APC, green, ceramic SM, C, flangeless</b>	12	R503776
	<b>PC, blue, ceramic SM, B, flangeless</b>	12	R503769
	<b>PC, blue, ceramic SM, C, flangeless</b>	12	R503762
	<b>PC, blue, PhBr SM, D, flangeless</b>	12	R503758
	<b>Adapter SC</b> SC adapter flangeless with semi-transparent dust caps. Quick mounting clip integrated.		
	<b>PC, beige, ceramic MM, M, flangeless</b>	12	R503689
	<b>PC, beige, PhBr MM, N, flangeless</b>	12	R503671
	<b>Adapter SC-Duplex</b> Supplied: – SC-Duplex adapter – 2 Philips head screws M2 x 8, blue galvanized – 2 mounted hexagonal nuts M2, blue galvanized		
	<b>APC, green, ceramic SM, C</b>	12	R804260
	<b>PC, blue, ceramic SM, C</b>	12	R30805
	<b>PC, blue, PhBr SM, D</b>	12	R306879
	<b>PC, beige, ceramic MM, M</b>	12	R317064
	<b>PC, beige, PhBr MM, N</b>	12	R303561
	<b>Adapter SC-RJ</b> Supplied: – SC-RJ adapter with semi-transparent dust caps – Snap-in frame with coding clip, gray – Installation instructions		
	<b>APC, green, ceramic SM, B, Snap-in</b>	12	R318279
	<b>APC, green, ceramic SM, C, Snap-in</b>	12	R318278
	<b>PC, blue, ceramic SM, C, Snap-in</b>	12	R318276
	<b>PC, blue, PhBr SM, D, Snap-in</b>	12	R318275
	<b>PC, beige, ceramic MM, M, Snap-in</b>	12	R318274
	<b>PC, beige, PhBr MM, N, Snap-in</b>	12	R318273
	<b>PC, black, PhBr MM, N, Snap-in</b>	12	R312775

Ordering Information	Description	MOQ	Part Number
	<b>Adapter SC-RJ</b> Supplied: – SC-RJ adapter flangeless with semi-transparent dust caps – Support plate – Installation instructions		
	<b>APC, green, ceramic SM, B, support plate</b>	12	R318272
	<b>APC, green, ceramic SM, C, support plate</b>	12	R318271
	<b>PC, blue, ceramic SM, C, support plate</b>	12	R318270
	<b>PC, blue, PhBr SM, D, support plate</b>	12	R318269
	<b>PC, beige, ceramic MM, M, support plate</b>	12	R318268
	<b>PC, beige, PhBr MM, N, support plate</b>	12	R318266
	<b>PC, black, ceramic SM, C, support plate</b>	12	R308461
	<b>PC, black, PhBr MM, N, support plate</b>	12	R308459
	<b>Adapter SC-RJ</b> SC-RJ adapter flangeless with semi-transparent dust caps.		
	<b>APC, green, ceramic SM, C, flangeless</b>	12	R510759
	<b>PC, blue, ceramic SM, C, flangeless</b>	12	R510758
	<b>Adapter IP67 SC-RJ</b> Supplied: – SC-RJ adapter with semi-transparent dust caps – Support plate for mounting frame IP67		
	<b>PC, black, ceramic SM, C</b>	12	R311496
	<b>PC, black, PhBr MM, N</b>	12	R309641

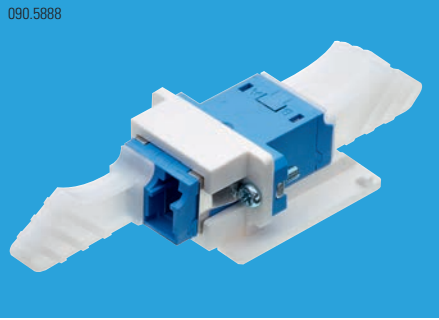




- Features**
- Integration in many R&M platforms
  - Split ceramic sleeve
  - 500 mating cycles

**i** Adapters are color-coded  
(singlemode APC = green; singlemode PC = blue; multimode = beige)

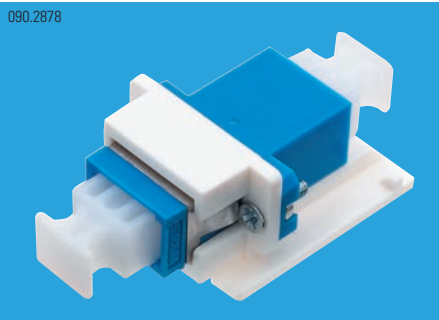
Ordering Information	Description	MOQ	Part Number
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**Universal Adapter LC-Duplex**  
Universal adapter equipped with adapter.  
**APC, green/green-non, ceramic SM, C**  
**PC, blue/blue-blue, ceramic SM, C**  
**PC, beige/turquoise-non, ceramic MM, M**  
**PC, beige/orange-non, ceramic MM, M**  
**PC, beige/beige-beige, PhBr MM, N**

1	R802141
1	R318738
1	R802140
1	R802139
1	R318739

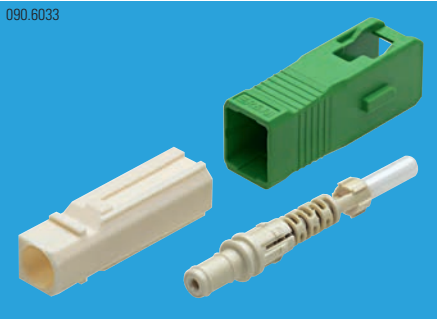
**i** Only for unshielded platforms.



**Universal Adapter SC**  
Universal adapter equipped with adapter.  
**PC, blue, ceramic SM, C**  
**PC, beige, PhBr MM, N**

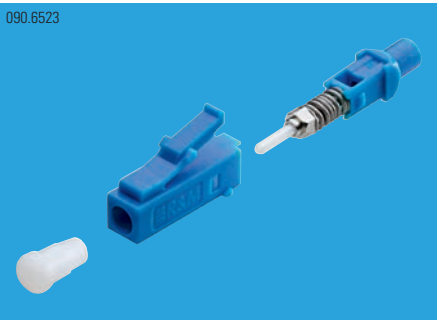
1	R318736
1	R318737

**i** Only for unshielded platforms.



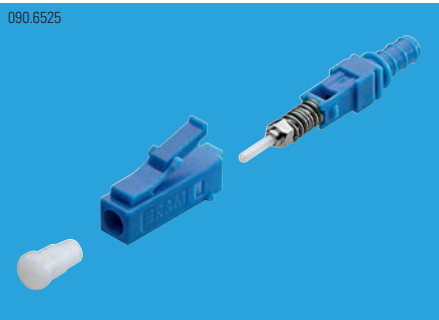
- Features**
- Consistent coefficient of expansion thanks to full-ceramic ferrule
  - Different grades (M, D and C)
  - Different ferrule types available

Ordering Information	Description	MOQ	Part Number
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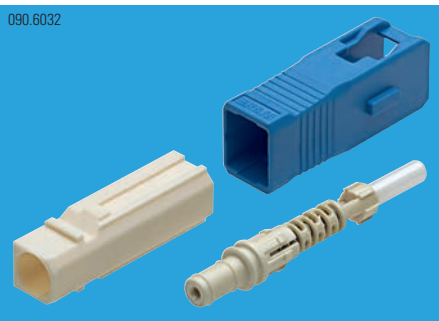
**Connector LC PC,**  
Locking type push-pull. Injection-molded PBT housing, UL 94 V-0 (flammability index).  
Supplied:  
– Connector housing  
– Ferrule holder for pigtail incl. ferrule  
– White plastic dust cover  
**SM, blue, 126.0 (+1/-0) µm, pigtail**  
**MM, beige, 127.0 (+2/-0) µm, pigtail**

100	R804280
100	R804281



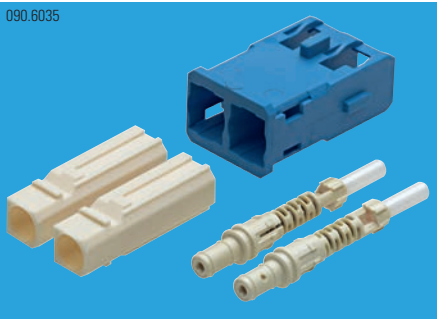
**Connector LC PC,**  
Locking type push-pull. Injection-molded PBT housing, UL 94 V-0 (flammability index).  
Supplied:  
– Connector housing  
– Ferrule holder for patch cable incl. ferrule  
– White plastic dust cover  
**SM, blue, 126.0 (+1/-0) µm, patch cable**  
**MM, beige, 127.0 (+2/-0) µm, patch cable**

100	R804277
100	R804278



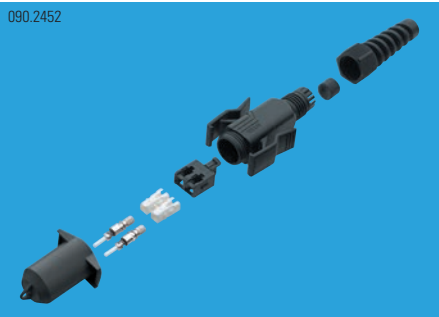
**Connector SC PC,**  
Locking type push-pull. Injection-molded PBT housing, UL 94 V-0 (flammability index).  
Supplied:  
– Inner and outer connector housings  
– Ferrule holder incl. ferrule  
**SM, blue, 125.5 (+1/-0) µm**  
**MM, beige, 127.0 (+3/-0) µm**  
**MM, beige, 144.0 (+4/-0) µm**  
**MM, beige, 232.0 (+2/-0) µm**

100	R304376
100	R304375
100	R802159
100	R802160



**Connector SC-RJ PC,**  
Locking type push-pull. Injection-molded PBT housing, UL 94 V-0 (flammability index).  
Supplied:  
– Inner and outer connector housings  
– 2 Ferrule holders incl. ferrules  
**SM, blue, 125.5 (+1/-0) µm**  
**MM, beige, 127.0 (+3/-0) µm**  
**MM, black, 144.0 (+4/-0) µm**  
**MM, black, 232.0 (+2/-0) µm**

50	R802165
50	R802162
50	R802163
50	R802164

Ordering Information	Description	MOQ	Part Number
	<p><b>Connector IP67, type 06, black, SC-RJ PC, SM, black,</b> Connector set with SC-RJ PC plug und housing IP67, type 06. Plug color: black. Fiber: SM G.652.D (OS1, OS2). Ferrule: inner Ø 126 µm, tol. +1µm/0. Supplied: – SC interior housing incl. ferrule pre assembled – SC-RJ connector housing – Housing IP67, type 06, black – Instruction manual <b>126.0 (+1/-0) µm</b></p> <div><div>i</div><div>Different cable Ø and type on request.</div></div>	50	R315009



# SWISSN=SS

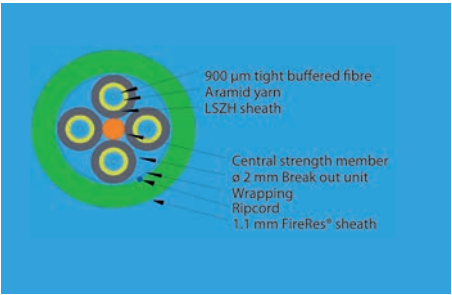
GET MORE. Top quality for your investments. Thanks to the proverbial Swiss safety-first approach.



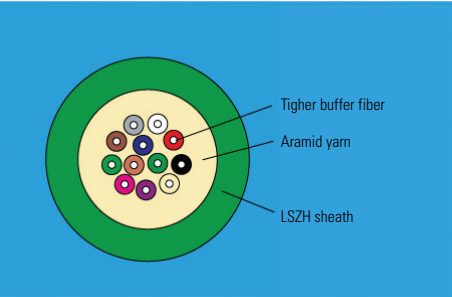
- Features**
- Wide range of cables and fiber diameters
  - Fulfills side load test up to 8.9 N
  - Fulfills flexing test
  - Excellent torsional stability
  - Available in different colors

Ordering Information	Description	MOQ	Part Number
	<b>Crimp Set E-2000™ / SC, 0.9 mm tube,</b> Colored connector boot. For tubes from Ø 0.6 - 1.2 mm. Material boot: TPE, self extinguishing, free of halogen.		
	<b>green</b>	100	R504126
	<b>blue</b>	100	R504441
	<b>red</b>	100	R504066
	<b>black</b>	100	R504383
	<b>orange</b>	100	R504425
	<b>gray</b>	100	R504444
	<b>turquoise</b>	100	R504448
	<b>pink</b>	100	R504453
	<b>brown</b>	100	R504456
	<b>violet</b>	100	R503133
	<b>white</b>	100	R504071
	<b>beige</b>	100	R502985
	<b>yellow</b>	100	R504063
	<b>Crimp Set all Types E-2000™ / LC / SC, 2.2 mm cable,</b> Crimp sleeve and colored connector boot. For cables from Ø 1.8 - 2.2 mm. Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen.		
	<b>green</b>	100	R504270
	<b>blue</b>	100	R504361
	<b>red</b>	100	R504304
	<b>black</b>	100	R504374
	<b>orange</b>	100	R504303
	<b>gray</b>	100	R504362
	<b>turquoise</b>	100	R504272
	<b>pink</b>	100	R504376
	<b>brown</b>	100	R504377
	<b>violet</b>	100	R504382
	<b>white</b>	100	R504348
	<b>beige</b>	100	R504022
	<b>yellow</b>	100	R504301
	<b>Crimp Set LC, 0.9 mm tube,</b> Colored connector boot. For tubes from Ø 0.6 - 1.2 mm. Material boot: TPE, self extinguishing, free of halogen.		
	<b>green</b>	100	R802932
	<b>blue</b>	100	R802933
	<b>red</b>	100	R802936
	<b>black</b>	100	R802931
	<b>orange</b>	100	R802940
	<b>gray</b>	100	R802937
	<b>turquoise</b>	100	R802943
	<b>pink</b>	100	R802941
	<b>brown</b>	100	R802938
	<b>violet</b>	100	R802942
	<b>white</b>	100	R802935
	<b>beige</b>	100	R802934
	<b>yellow</b>	100	R802939

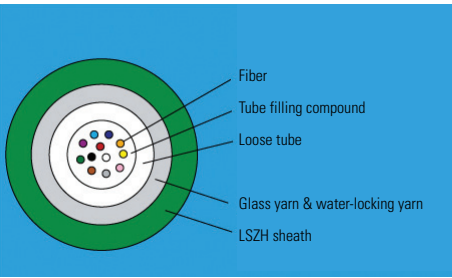




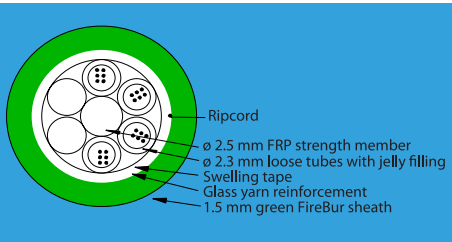
Breakout Cables / Indoor / LSZH				
Fiber count	OM2	OM3	OM4	OS2 (G 652.D)
2	R314465	R314472	-----	R314479
4	R304466	R314473	-----	R314480
6	R314467	R314474	-----	R314481
8	R314240	R314241	R512701	R314248
12	R314243	R341244	R512702	R314249
16	R314470	R314477	-----	R314484
24	R314246	R314247	R512703	R314250



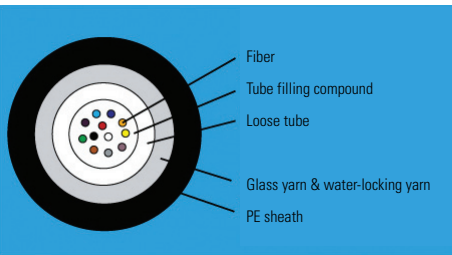
Mini Breakout Cables / Indoor / LSZH					
Fiber count	OM2	OM3	OM4	OS2 (G 652.D)	OS2 (G 657.A2)
2	R314488	R314490		R314492	
4	R304073	R308315	R512704	R304135	R512709
6	R304074	R308316	R512705	R304136	R512710
8	R304075	R308313	R512706	R304137	R512711
12	R304076	R308318	R512707	R304138	R512712
24	R304078	R308317	R512708	R304140	R512713



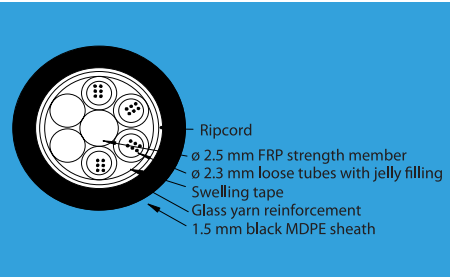
Central Loose Tube Cables / Indoor/Outdoor / LSZH				
Fiber count	OM2	OM3	OM4	OS2 (G 652.D)
4	R304088	R308217	R512391	R304143
6	R304089	R308310	R512392	R304145
8	R304090	R308218	R512393	R304146
12	R304091	R308214	R512394	R304147
24	R304092	R308215	R512395	R304148



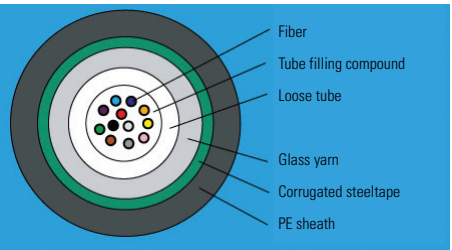
Stranded Loose Tube Cables Indoor / Outdoor / LSZH				
Fiber count	OM2	OM3	OM4	OS2 (G 652.D)
1x12	R314501	R314507	R807379	R314513
2x12	R314502	R314508	R807380	R314514
4x12	R314503	R314509	R807381	R314515
6x12	R314504	R314510	R807382	R314516
8x12	R314505	R314511	R807383	R314517
12x12	R314506	R314512	R807384	R314518



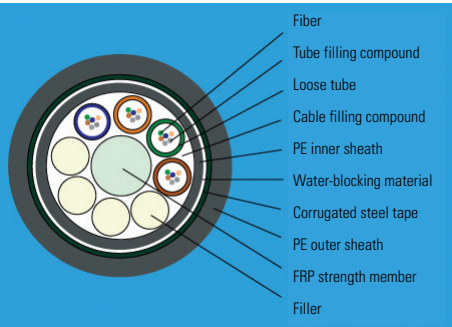
Central Loose Tube Cables / Outdoor / PE				
Fiber count	OM2	OM3	OM4	OS2 (G 652.D)
4	R314521	R314523	R512396	R314525
6	R312791	R312792	R512397	R312797
8	R314522	R314524	R512398	R314526
12	R304150	R311387	R512399	R304156
24	R304151	R311388	R512400	R304157



Central Loose Tube Cables / Outdoor / PE / Corrugated Steel Armour				
Fiber count	OM2	OM3	OM4	OS2 (G 652.D)
1X12	R314532	R314537	R807385	R314542
2X12	R314533	R314538	R807386	R314451
4X12	R304152	R311389	R807387	R304158
6X12	R314534	R314539	R807388	R314452
8X12	R314535	R314540	R807389	R314453
12X12	R314536	R314541	R807390	R314454



Central Loose Tube Cables / Outdoor / PE / Corrugated Steel Armour				
Fiber count	OM2	OM3	OM4	OS2 (G 652.D)
6	R312795	R312794		R312793
8	R314456	R314457		R314543
12	R304210	R311390		R304216
24	R304211	R311391		R304217



Stranded Loose Tube Cables / Outdoor / PE / Corrugated Steel Armour				
Fiber count	OM2	OM3	OM4	OS2 (G 652.D)
1x12	R314548	R314552		R314556
2x12	R314549	R314553		R314557
4x12	R304212	R311392		R304218
6x12	R314550	R314554		R314558
8x12	R314551	R314555		R314559

Patch Panels  
19" SpliceBox

090.5072



Features

- Up to 48 connectors on one height unit (1U)
- Little mounting depth of 230 mm
- Cable entry from the rear or from the side
- Loose tube and pigtail reserve within splice box
- Labeled front panel



- APC versions by default according DIN VDE 0888 color coding.
- Other configurations on request.

Ordering Information

Description

MOQ

Part Number

090.5072



19" 1U SpliceBox 12xLC-Duplex

Front panel with staggered arrangement of adapters.  
Supplied:

- 19" 1U splice box, with 2 splice trays radius 30 mm, fastening material and installation instructions
  - Front panel equipped with adapters and pigtails
- OM3, PC, PhBr, Bm/3**

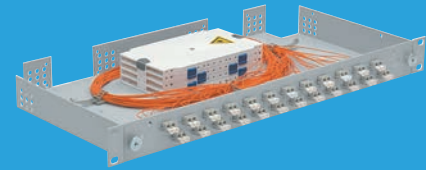
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R502608



Without cover for 19" 1U SpliceBox / BreakoutBox (R306775).

090.5072



19" 1U SpliceBox 24xLC-Duplex

Front panel with staggered arrangement of adapters.  
Supplied:

- 19" 1U splice box, with 4 splice trays radius 30 mm, fastening material and installation instructions
- Front panel equipped with adapters and pigtails

**G.652.D, APC, ceramic, C/1**

1

R804625

**G.652.D, PC, ceramic, C/2**

1

R804623

**OM4, PC, ceramic, Bm/3**

1

R804619

**OM3, PC, ceramic, Bm/3**

1

R804621

**OM3, PC, PhBr, Bm/3**

1

R502611



Without cover for 19" 1U SpliceBox / BreakoutBox (R306775).

090.3125



19" 1U SpliceBox 24xSC

Supplied:

- 19" 1U splice box, with 2 splice trays radius 30 mm, fastening material and installation instructions
- Front panel equipped with adapters and pigtails

**G.652.D, PC, PhBr, D/3**

1

R306889



Without cover for 19" 1U SpliceBox / BreakoutBox (R306775).

لوحات التجميع  
لوحات التجميع عرض 19 بوصة SpliceBox

Patch Panels  
19" SpliceBox

Ordering Information

Description

لوحات التجميع  
لوحات التجميع عرض 19 بوصة SpliceBox

MOQ

Part Number

090.3126



19" 1U SpliceBox 12xSC-Duplex

Supplied:

- 19" 1U splice box, with 2 splice trays radius 30 mm, fastening material and installation instructions
- Front panel equipped with adapters and pigtails

**G.652.D, PC, ceramic, C/2**

1

R306892

**OM3, PC, PhBr, Bm/3**

1

R308064

**OM2, PC, PhBr, Bm/3**

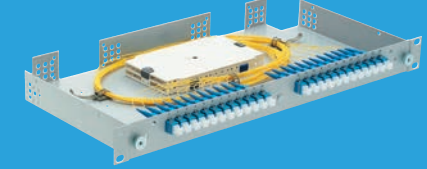
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R306894



Without cover for 19" 1U SpliceBox / BreakoutBox (R306775).

090.3125



19" 1U SpliceBox 24xSC-Duplex

Supplied:

- 19" 1U splice box, with 4 splice trays radius 30 mm, fastening material and installation instructions
- Front panel equipped with adapters and pigtails

**G.652.D, APC, ceramic, C/1**

1

R804626

**G.652.D, PC, ceramic, C/2**

1

R804624

**OM4, PC, ceramic, Bm/3**

1

R804620

**OM3, PC, ceramic, Bm/3**

1

R804622



Without cover for 19" 1U SpliceBox / BreakoutBox (R306775).

010.2291



19" 1U SpliceBox / BreakoutBox, cover

- Protection against external mechanical factors.
- Opened and closed with a screwdriver.

– Color: medium gray (NCS 2502-B)

Supplied:

- Cover (sheet steel)
- 4 screws M4x8 mm

1



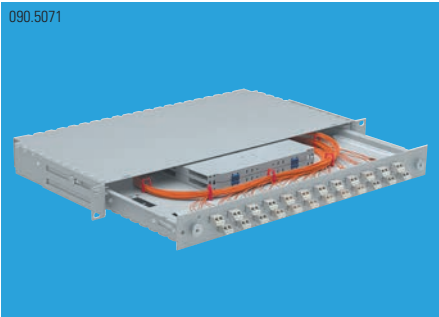
R306775



Patch Panels  
19" UniRack


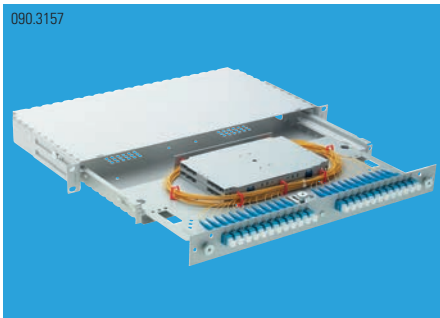




- Features**
- Up to 48 connectors on one height unit (1U)
  - Up to 96 connectors (LC pigtails) on two height unit (2U)
  - Simple patch panel mounting and dismounting for splicing
  - Little mounting depth of 230 mm
  - Universally compatible (e.g. ETSI standard compliant)
  - Cable entry from the rear or from the side
- i**
- Loose tubes of a diameter above 3.5 mm can cause mounting problems.
  - APC versions by default according DIN VDE 0888 color coding. FC excluded.
  - Other configurations on request.




Ordering Information	Description	MOQ	Part Number
	<b>19" 1U UniRack 12xLC-Duplex</b> Front panel with staggered arrangement of adapters. Supplied: <ul style="list-style-type: none"><li>– 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual</li><li>– Front panel equipped with adapters and pigtails</li></ul> <b>OM3, PC, PhBr, Bm/3</b>	1	R505557
	<b>19" 1U UniRack 12xLC-Duplex</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual</li><li>– Front panel equipped with adapters and pigtails</li></ul> <b>G.652.D, APC, ceramic, C/1</b> <b>G.652.D, PC, ceramic, C/2</b> <b>OM3, PC, PhBr, Bm/3</b> <b>OM2, PC, PhBr, Bm/3</b>	1 1 1 1	R308511 R308509 R308517 R308515
	<b>19" 1U UniRack 24xLC-Duplex</b> Front panel with staggered arrangement of adapters. Supplied: <ul style="list-style-type: none"><li>– 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual</li><li>– Front panel equipped with adapters and pigtails</li></ul> <b>G.652.D, APC, ceramic, C/1</b> <b>G.652.D, PC, ceramic, C/2</b> <b>OM4, PC, ceramic, Bm/3</b> <b>OM3, PC, ceramic, Bm/3</b> <b>OM3, PC, PhBr, Bm/3</b>	1 1 1 1 1	R505558 R804733 R804731 R804723 R507184

لوحات التجميع  
لوحات التجميع عرض 19 بوصة UniRack

Patch Panels  
19" UniRack

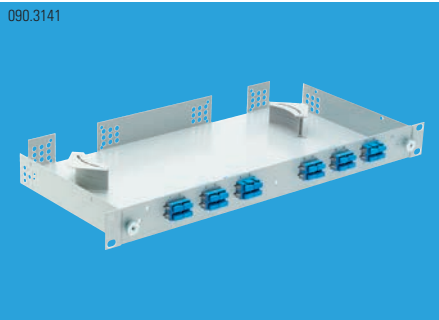



Ordering Information	Description	MOQ	Part Number
	<b>19" 1U UniRack 12xSC</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual</li><li>– Front panel equipped with adapters and pigtails</li></ul> <b>G.652.D, PC, ceramic, C/2</b>	1	R303512
	<b>19" 1U UniRack 24xSC</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual</li><li>– Front panel equipped with adapters and pigtails</li></ul> <b>G.652.D, APC, ceramic, B/1</b> <b>G.652.D, APC, ceramic, C/1</b> <b>G.652.D, PC, ceramic, C/2</b>	1 1 1	R801640 R301990 R301989
	<b>19" 1U UniRack 36xSC</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual</li><li>– Front panel equipped with adapters and pigtails</li></ul> <b>G.652.D, APC, ceramic, B/1</b> <b>G.652.D, APC, ceramic, C/1</b> <b>G.652.D, PC, ceramic, C/2</b> <b>OM4, PC, ceramic, Bm/3</b> <b>OM3, PC, ceramic, Bm/3</b>	1 1 1 1 1	R804779 R804780 R804781 R804782 R804783
	<b>19" 1U UniRack 6xSC-Duplex</b> Supplied: <ul style="list-style-type: none"><li>– 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual</li><li>– Front panel equipped with adapters and pigtails</li></ul> <b>OM3, PC, PhBr, Bm/3</b> <b>OM2, PC, PhBr, Bm/3</b>	1 1	R308496 R308494




لوحات التجميع  
لوحات التجميع عرض 19 بوصة UniRack

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U UniRack 12xSC-Duplex</b> Supplied: – 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual – Front panel equipped with adapters and pigtails	1	R303009
	<b>G.652.D, PC, ceramic, C/2</b>	1	R804691
	<b>OM4, PC, ceramic, Bm/3</b>	1	R804690
	<b>OM3, PC, ceramic, Bm/3</b>	1	R308066
	<b>OM3, PC, PhBr, Bm/3</b>	1	R308495
	<b>OM2, PC, PhBr, Bm/3</b>	1	R308493
	<b>19" 1U UniRack 24xSC-Duplex</b> Supplied: – 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual – Front panel equipped with adapters and pigtails	1	R804773
	<b>G.652.D, APC, ceramic, C/1</b>	1	R804774
	<b>G.652.D, PC, ceramic, C/2</b>	1	R804775
	<b>OM4, PC, ceramic, Bm/3</b>	1	R804775
	<b>OM3, PC, ceramic, Bm/3</b>	1	R804630
	<b>19" 1U UniRack 12xSC-RJ</b> Supplied: – 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual – Front panel equipped with adapters and pigtails	1	R308067
	<b>OM3, PC, PhBr, Bm/3</b>	1	R308486
	<b>OM2, PC, PhBr, Bm/3</b>		


Ordering Information	Description	MOQ	Part Number
	<b>Features</b> – Up to 24 adapters on one height unit (1U) – Little mounting depth of 230 mm – Cable entry from the rear or from the side – Fastening options for cabling systems – No front-side drawer (fixed rack)		
	<b>i</b> Other configurations on request.		
	<b>19" 1U BreakoutBox 12xLC-Duplex</b> Front panel with staggered arrangement of adapters. Supplied: – 19" 1U breakout box, fastening material and installation instructions – Front panel equipped with adapters	1	R314347
	<b>multimode, PC, PhBr</b>		
	<b>i</b> Without cover for 19" 1U SpliceBox / BreakoutBox (R306775).		
	<b>19" 1U BreakoutBox 24xLC-Duplex</b> Front panel with staggered arrangement of adapters. Supplied: – 19" 1U breakout box, fastening material and installation instructions – Front panel equipped with adapters		
	<b>singlemode, PC, ceramic</b>	1	R805766
	<b>OM3/OM4, PC, ceramic</b>	1	R804726
	<b>multimode, PC, PhBr</b>	1	R501587
	<b>i</b> Without cover for 19" 1U SpliceBox / BreakoutBox (R306775).		
	<b>19" 1U BreakoutBox 24xSC</b> Supplied: – 19" 1U breakout box, fastening material and installation instructions – Front panel equipped with adapters	1	R306875
	<b>multimode, PC, PhBr</b>		
	<b>i</b> Without cover for 19" 1U SpliceBox / BreakoutBox (R306775).		
	<b>19" 1U BreakoutBox 12xSC-Duplex</b> Supplied: – 19" 1U breakout box, fastening material and installation instructions – Front panel equipped with adapters	1	R306876
	<b>multimode, PC, PhBr</b>		
	<b>i</b> Without cover for 19" 1U SpliceBox / BreakoutBox (R306775).		

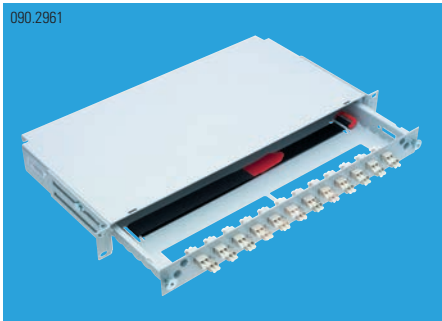
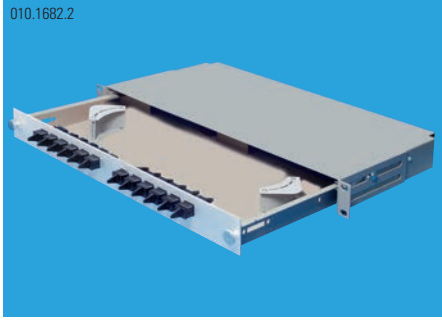




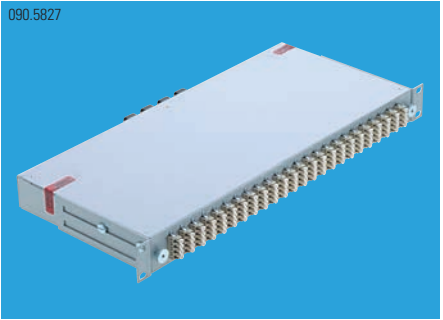

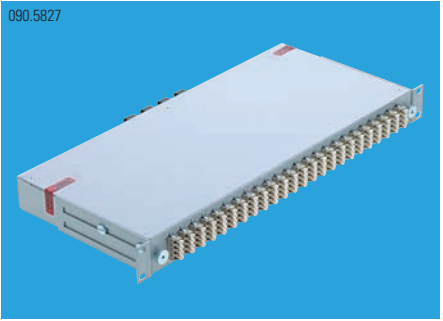
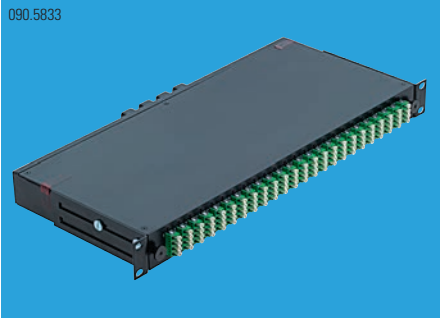

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U BreakoutBox 24xSC-Duplex</b> Supplied: – 19" 1U breakout box, fastening material and installation instructions – Front panel equipped with adapters		
	<b>singlemode, APC, ceramic</b>	1	R805765
	<b>singlemode, PC, ceramic</b>	1	R805764
	<b>multimode, PC, ceramic</b>	1	R805763
	 Without cover for 19" 1U SpliceBox / BreakoutBox (R306775).		
	<b>19" 1U BreakoutBox 12xSC-RJ</b> Supplied: – 19" 1U breakout box, fastening material and installation instructions – Front panel equipped with adapters		
	<b>singlemode, APC, ceramic</b>	1	R805772
	<b>singlemode, PC, ceramic</b>	1	R805771
	<b>multimode, PC, ceramic</b>	1	R805770
	<b>multimode, PC, PhBr</b>	1	R308508
	 Without cover for 19" 1U SpliceBox / BreakoutBox (R306775).		

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U FibereasyRack 12xLC-Duplex</b> Safe cable fixation inside of the Rack. Easy patch cord handling through the connector arrangement. Supplied: – 19" 1U slide-in unit, fastening material, labeling strips and installation instructions – One 2 x 15 mm radius guards – Fastening strap for safe cable fixation – Front panel equipped with adapters		
	<b>singlemode, PC, ceramic</b>	1	R316753
	<b>multimode, PC, PhBr</b>	1	R501578
	<b>19" 1U FibereasyRack 12xSC-RJ</b> Supplied: – 19" 1U slide-in unit, fastening material, labeling strips and installation instructions – Three 2 x 15 mm radius guards – Front panel equipped with adapters		
	<b>multimode, PC, PhBr</b>	1	R308500
	<b>19" 1U FibereasyRack 12xLC-Duplex</b> Supplied: – 19" 1U slide-in unit, fastening material, labeling strips and installation instructions – Three 2 x 15 mm radius guards – Front panel equipped with adapters		
	<b>OM3/OM4, PC, ceramic</b>	1	R805934

- Features**
- Up to 24 adapters on one height unit (1U)
  - Simple patch panel mounting and dismounting
  - Little mounting depth of 230 mm
  - Universally compatible (e.g. ETSI standard compliant)
  - Cable entry from the rear or from the side

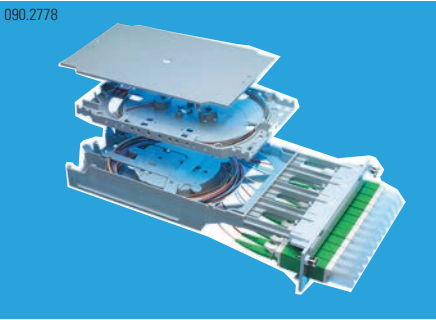
 Adapters 100% tested and supplied with test report.

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U FibereasyRack 24xLC-Duplex</b> Safe cable fixation inside of the Rack. Front panel with staggered arrangement of adapters. Easy patch cord handling through the connector arrangement. Supplied: – 19" 1U slide-in unit, fastening material, labeling strips and installation instructions – One 2 x 15 mm radius guards – Fastening strap for safe cable fixation – Front panel equipped with adapters <b>multimode, PC, PhBr</b>	1	R320078
	<b>19" 1U FibereasyRack 6xLC-Duplex</b> Safe cable fixation inside of the Rack. Easy patch cord handling through the connector arrangement. Supplied: – 19" 1U slide-in unit, fastening material, labeling strips and installation instructions – One 2 x 15 mm radius guards – Fastening strap for safe cable fixation – Front panel equipped with adapters <b>multimode, PC, PhBr</b>	1	R309618
	<b>19" 1U FibereasyRack 24xSC</b> Supplied: – 19" 1U slide-in unit, fastening material, labeling strips and installation instructions – Three 2 x 15 mm radius guards – Front panel equipped with adapters <b>singlemode, PC, ceramic</b>	1	R304360
	<b>19" 1U FibereasyRack 12xSC-Duplex</b> Supplied: – 19" 1U slide-in unit, fastening material, labeling strips and installation instructions – Three 2 x 15 mm radius guards – Front panel equipped with adapters <b>singlemode, PC, ceramic</b> <b>multimode, PC, ceramic</b> <b>multimode, PC, PhBr</b>	1 1 1	R30692-12 R804730 R308501

Ordering Information	Description	MOQ	Part Number
	<b>Features</b> – Easy handling (plug and play) – Integrated bending radius limiter – High packing density, up to 96 connectors per 1U patch panel – Little mountingdepth of 230 mm – Universally compatible (e.g. ETSI standard compliant)  <b>i</b> Other combinations available on request.		
	<b>19" 1U MPO Panel, 8xMTP12-male - 24xLC-Quad,</b> Connectivity method: type A. Polishing connector MTP: APC. Polishing connector LC: APC. <b>G.652.D, APC/APC, type A, gray</b>	1	R510862
	<b>19" 1U MPO Panel, 8xMTP12-male - 24xLC-Quad,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector LC: PC. <b>OM3, PC/PC, type A, gray</b>	1	R510856
	<b>19" 1U MPO Panel, 8xMTP12-male - 24xLC-Quad, G.652.D,</b> Connectivity method: type A. Polishing connector MTP: APC. Polishing connector LC: APC. <b>APC/APC, type A, black</b>	1	R510863
	<b>19" 1U MPO Panel, 8xMTP12-male - 24xLC-Quad,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector LC: PC. <b>OM3, PC/PC, type A, black</b>	1	R510857



Patch Panels  
FiberModul 7HP with Metal Front Plate  
Splice and breakout



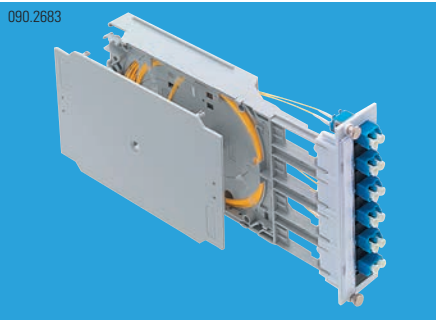
- Features**
- Up to 12 plugged connections on 7HP
  - Guaranteed bending radius of 35 mm
  - Pre-numbered front plates, extra labeling field
  - Easy detachable metal front panels
  - Choice of cable entry of 45° or 90°
  - Hold-down cross protecting the fibers
  - Up to 144 fibers per 19" 3U Global patch panel

**i** Adapters are color-coded  
(singlemode APC = green, singlemode PC = blue; multimode = beige;  
Exceptions: ST and FC = metal and SC-RJ = black)

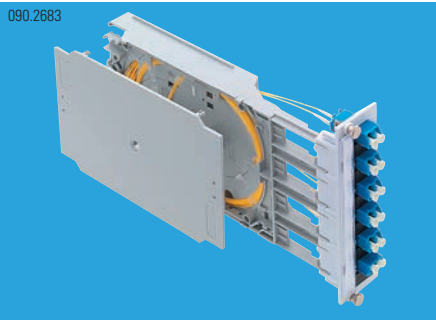
Ordering Information	Description	MOQ	Part Number
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- FiberModul 7HP, metal, splice, 12xSC**  
Supplied:
- Slide-in unit, splice tray radius 35 mm, fastening material, labeling strips and installation instructions
  - Metal front panel equipped with 12xSC adapters, pigtails inserted and ready for splicing
- G.652.D, APC, ceramic, C/1** 1 R318554  
**G.652.D, PC, ceramic, C/2** 1 R318553  
**G.652.D, PC, PhBr, D/3** 1 R318936  
**OM3, PC, ceramic, Bm/3** 1 R318825  
**OM2, PC, ceramic, Bm/3** 1 R318826  
**OM1, PC, ceramic, Bm/3** 1 R318824  
**OM3, PC, PhBr, Bm/3** 1 R318823  
**OM2, PC, PhBr, Bm/3** 1 R318822  
**OM1, PC, PhBr, Bm/3** 1 R318821



- FiberModul 7HP, metal, splice, 6xLC-Duplex**  
Supplied:
- Slide-in unit, splice tray radius 35 mm, fastening material, labeling strips and installation instructions
  - Metal front panel equipped with 6xLC-Duplex adapters, pigtails inserted and ready for splicing
- G.652.D, PC, ceramic, C/2** 1 R318948  
**G.652.D, PC, PhBr, D/3** 1 R318938  
**OM4, PC, ceramic, Bm/3** 1 R513583  
**OM3, PC, ceramic, Bm/3** 1 R805975  
**OM3, PC, PhBr, Bm/3** 1 R318835  
**OM2, PC, PhBr, Bm/3** 1 R318834  
**OM1, PC, PhBr, Bm/3** 1 R318833

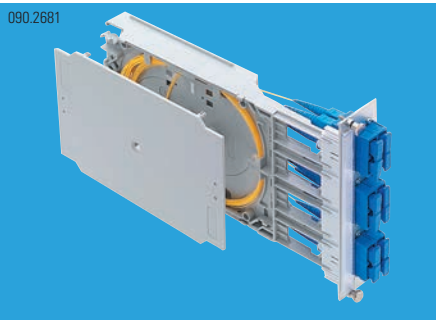


- FiberModul 7HP, metal, splice, 6xLC-Duplex**  
Color metal front plate: black (RAL 9005).  
Supplied:
- Slide-in unit, splice tray radius 35 mm, fastening material, labeling strips and installation instructions
  - Metal front panel equipped with 6xLC-Duplex adapters, pigtails inserted and ready for splicing
- OM4, PC, ceramic, Bm/3, black** 1 R513582

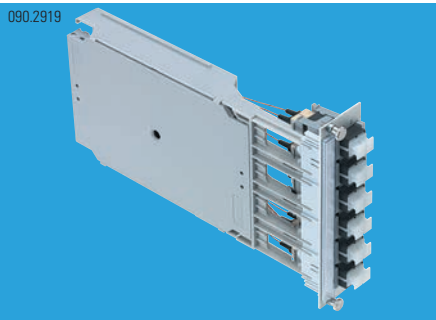
لوحات التجميع  
FiberModul  
بلوحة معدنية  
Splice and breakout

Patch Panels  
FiberModul 7HP with Metal Front Plate  
Splice and breakout

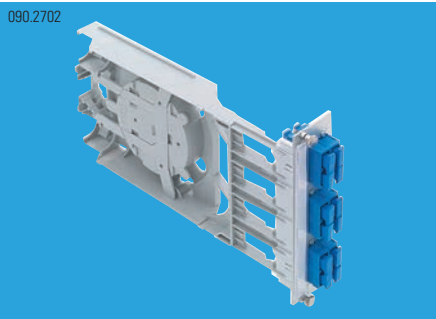
Ordering Information	Description	MOQ	Part Number
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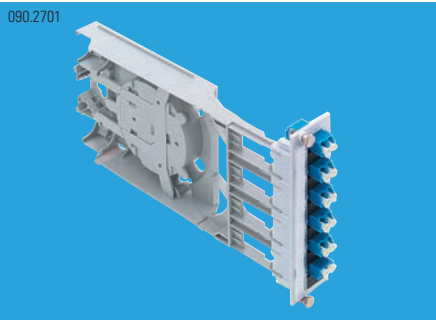
- FiberModul 7HP, metal, splice, 6xSC-Duplex**  
Supplied:
- Slide-in unit, splice tray radius 35 mm, fastening material, labeling strips and installation instructions
  - Metal front panel equipped with 6xSC-Duplex adapters, pigtails inserted and ready for splicing
- G.652.D, APC, ceramic, C/1** 1 R318959  
**G.652.D, PC, ceramic, C/2** 1 R318950  
**G.652.D, PC, PhBr, D/3** 1 R318940  
**OM4, PC, ceramic, Bm/3** 1 R805977  
**OM3, PC, ceramic, Bm/3** 1 R318853  
**OM2, PC, ceramic, Bm/3** 1 R318852  
**OM1, PC, ceramic, Bm/3** 1 R318851  
**OM3, PC, PhBr, Bm/3** 1 R318850  
**OM2, PC, PhBr, Bm/3** 1 R318849  
**OM1, PC, PhBr, Bm/3** 1 R318848



- FiberModul 7HP, metal, splice, 6xSC-RJ**  
Supplied:
- Slide-in unit, splice tray radius 35 mm, fastening material, labeling strips and installation instructions
  - Metal front panel equipped with 6xSC-RJ adapters, pigtails inserted and ready for splicing
- OM3, PC, ceramic, Bm/3** 1 R318844  
**OM2, PC, ceramic, Bm/3** 1 R318843  
**OM1, PC, ceramic, Bm/3** 1 R318842  
**OM3, PC, PhBr, Bm/3** 1 R318847  
**OM2, PC, PhBr, Bm/3** 1 R318846  
**OM1, PC, PhBr, Bm/3** 1 R318845



- FiberModul 7HP, metal, breakout, 12xSC**  
Supplied:
- Slide-in unit, fastening material, labeling strips and installation instructions
  - Metal front panel equipped with 12xSC adapters
- singlemode, PC, ceramic** 1 R318970  
**singlemode, PC, PhBr** 1 R318969  
**multimode, PC, PhBr** 1 R318861



- FiberModul 7HP, metal, breakout, 6xLC-Duplex**  
Supplied:
- Slide-in unit, fastening material, labeling strips and installation instructions
  - Metal front panel equipped with 6xLC-Duplex adapters
- singlemode, PC, ceramic** 1 R318976  
**singlemode, PC, PhBr** 1 R318975  
**multimode, PC, PhBr** 1 R318864

لوحات التجميع  
FiberModul  
بلوحة معدنية  
Splice and breakout

Patch Panels  
FiberModul 7HP with Metal Front Plate  
Splice and breakout

Ordering Information	Description	MOQ	Part Number
090.2701	<b>FiberModul 7HP, metal, breakout, 6xLC-Duplex</b> Color metal front plate: black (RAL 9005). Supplied: – Slide-in unit, fastening material, labeling strips and installation instructions – Metal front panel equipped with 6xLC-Duplex adapters		
	<b>multimode, PC, ceramic, black</b>	1	R513579
090.2702	<b>FiberModul 7HP, metal, breakout, 6xSC-Duplex</b> Supplied: – Slide-in unit, fastening material, labeling strips and installation instructions – Metal front panel equipped with 6xSC-Duplex adapters		
	<b>singlemode, APC, ceramic</b>	1	R318983
	<b>singlemode, PC, ceramic</b>	1	R318982
	<b>singlemode, PC, PhBr</b>	1	R318981
	<b>multimode, PC, ceramic</b>	1	R318874
	<b>multimode, PC, PhBr</b>	1	R318873
090.2918	<b>FiberModul 7HP, metal, breakout, 6xSC-RJ</b> Supplied: – Slide-in unit, fastening material, labeling strips and installation instructions – Metal front panel equipped with 6xSC-RJ adapters		
	<b>multimode, PC, ceramic</b>	1	R318871
	<b>multimode, PC, PhBr</b>	1	R318872

لوحات التجميع  
FiberModul  
بلوحة معدنية  
Splice and breakout

Patch Panels  
FiberModul 7HP with Plastic Front Plate  
Splice and breakout

Ordering Information	Description	MOQ	Part Number
090.2683	<b>FiberModul 7HP, plastic, splice, 12xSC</b> Supplied: – Slide-in unit, splice tray radius 35 mm, fastening material, labeling strips and installation instructions – Plastic front panel equipped with 12xSC adapters, pigtails inserted and ready for splicing		
	<b>G.652.D, PC, ceramic, C/2</b> <b>G.652.D, PC, PhBr, D/3</b> <b>OM3, PC, ceramic, Bm/3</b> <b>OM2, PC, ceramic, Bm/3</b> <b>OM1, PC, ceramic, Bm/3</b> <b>OM3, PC, PhBr, Bm/3</b> <b>OM2, PC, PhBr, Bm/3</b> <b>OM1, PC, PhBr, Bm/3</b>	1 1 1 1 1 1 1 1	R318951 R318942 R318886 R318885 R318884 R318883 R318882 R318881
090.2683	<b>FiberModul 7HP, plastic, splice, 6xLC-Duplex</b> Supplied: – Slide-in unit, splice tray radius 35 mm, fastening material, labeling strips and installation instructions – Plastic front panel equipped with 6xLC-Duplex adapters, pigtails inserted and ready for splicing		
	<b>G.652.D, PC, ceramic, C/2</b> <b>G.652.D, PC, PhBr, D/3</b> <b>OM3, PC, PhBr, Bm/3</b> <b>OM2, PC, PhBr, Bm/3</b> <b>FiberModul 7HP, plastic, plastic, splice, 6xLC-Duplex OM1, PC, PhBr, Bm/3</b>	1 1 1 1 1	R318953 R318944 R318555 R318891 R318890
090.2682	<b>FiberModul 7HP, plastic, splice, 6xSC-Duplex</b> Supplied: – Slide-in unit, splice tray radius 35 mm, fastening material, labeling strips and installation instructions – Plastic front panel equipped with 6xSC-Duplex adapters, pigtails inserted and ready for splicing		
	<b>G.652.D, PC, ceramic, C/2</b> <b>G.652.D, PC, PhBr, D/3</b> <b>OM3, PC, ceramic, Bm/3</b> <b>OM2, PC, ceramic, Bm/3</b> <b>OM1, PC, ceramic, Bm/3</b> <b>OM3, PC, PhBr, Bm/3</b> <b>OM2, PC, PhBr, Bm/3</b> <b>OM1, PC, PhBr, Bm/3</b>	1 1 1 1 1 1 1 1	R318955 R318946 R318900 R318899 R318898 R318343 R318342 R318285

Features

– Up to 12 plugged connections on 7HP

– Guaranteed bending radius of 35 mm

– Pre-numbered front plates, extra labeling field

– Easy detachable plastic front panels

– Choice of cable entry of 45° or 90°

– Hold-down cross protecting the fibers

– Up to 144 fibers per 19" 3U Global patch panel

i

Adapters are color-coded  
(singlemode APC = green, singlemode PC = blue; multimode = beige;  
Exceptions: ST and FC = metal and SC-RJ = black)

لوحات التجميع  
FiberModul  
بلوحة بلاستيكية  
Splice and breakout



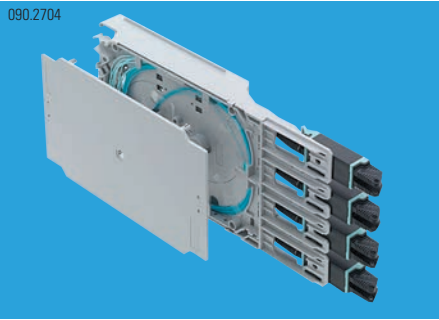

Patch Panels  
FiberModul 7HP with Plastic Front Plate  
Splice and breakout

لوحات التجميع  
FiberModul  
بلوحة بلاستيكية  
Splice and breakout

Ordering Information	Description	MOQ	Part Number
	<b>FiberModul 7HP, plastic, breakout, 12xSC</b> Supplied: – Slide-in unit, fastening material, labeling strips and installation instructions – Plastic front panel equipped with 12xSC adapters		
	<b>singlemode, PC, ceramic</b>	1	R318988
	<b>singlemode, PC, PhBr</b>	1	R318987
	<b>multimode, PC, ceramic</b>	1	R318908
	<b>multimode, PC, PhBr</b>	1	R318907
	<b>FiberModul 7HP, plastic, breakout, 6xLC-Duplex</b> Supplied: – Slide-in unit, fastening material, labeling strips and installation instructions – Plastic front panel equipped with 6xLC-Duplex adapters		
	<b>singlemode, APC, ceramic</b>	1	R318780
	<b>singlemode, PC, ceramic</b>	1	R318993
	<b>singlemode, PC, PhBr</b>	1	R318992
	<b>multimode, PC, PhBr</b>	1	R318771
	<b>FiberModul 7HP, plastic, breakout, 6xSC-Duplex</b> Supplied: – Slide-in unit, fastening material, labeling strips and installation instructions – Plastic front panel equipped with 6xSC-Duplex adapters		
	<b>singlemode, APC, ceramic</b>	1	R318999
	<b>singlemode, PC, ceramic</b>	1	R318998
	<b>singlemode, PC, PhBr</b>	1	R318997
	<b>multimode, PC, ceramic</b>	1	R318914
	<b>multimode, PC, PhBr</b>	1	R318288
	<b>FiberModul 7HP, plastic, breakout, 6xSC-RJ</b> Supplied: – Slide-in unit, fastening material, labeling strips and installation instructions – Plastic front panel equipped with 6xSC-RJ adapters		
	<b>multimode, PC, ceramic</b>	1	R318913
	<b>multimode, PC, PhBr</b>	1	R318287
	<b>FiberModul 7HP, plastic, splice, 6xSC-RJ</b> Supplied: – Slide-in unit, splice tray radius 35 mm, fastening material, labeling strips and installation instructions – Plastic front panel equipped with 6xSC-RJ adapters, pigtails inserted and ready for splicing		
	<b>OM3, PC, ceramic, Bm/3</b>	1	R318897
	<b>OM2, PC, ceramic, Bm/3</b>	1	R318896
	<b>OM1, PC, ceramic, Bm/3</b>	1	R318895
	<b>OM3, PC, PhBr, Bm/3</b>	1	R318341
	<b>OM2, PC, PhBr, Bm/3</b>	1	R318340
	<b>OM1, PC, PhBr, Bm/3</b>	1	R318284

Patch Panels  
FiberModul 1U  
Splice and breakout

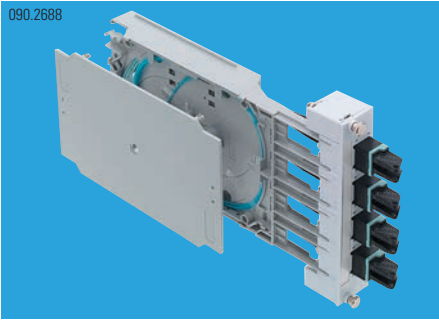
لوحات التجميع  
FiberModul  
ارتفاع 1 وحدة  
Splice and breakout

Ordering Information	Description	MOQ	Part Number
	<b>FiberModul 1U, splice, 4xSC-RJ</b> Supplied: – Slide-in unit equipped with 4xSC-RJ adapters, pigtails inserted and ready for splicing, splice tray radius 35 mm and installation instructions		
	<b>OM3, PC, ceramic, Bm/3</b>	1	R319122
	<b>OM2, PC, ceramic, Bm/3</b>	1	R319121
	<b>OM3, PC, PhBr, Bm/3</b>	1	R319119
	<b>OM2, PC, PhBr, Bm/3</b>	1	R319118
	<b>FiberModul 1U, breakout, 4xSC-RJ</b> Supplied: – Slide-in unit equipped with 4xSC-RJ adapters – Installation instructions		
	<b>multimode, PC, ceramic</b>	1	R319133
	<b>multimode, PC, PhBr</b>	1	R319132

- Features**
- Up to 8 plugged connections
  - Guaranteed bending radius of 35 mm
  - Suitable for 19" 1U patch panel 16xRJ45, empty
  - Expandable to Security System 1-3 thanks to Smartholes, incl. labeling field
  - Choice of cable entry of 45° or 90°
  - Hold-down cross protecting the fibers

**i** Adapters are color-coded  
(singlemode APC = green, singlemode PC = blue; multimode = beige;  
Exceptions: ST and FC = metal and SC-RJ = black)

Patch Panels  
FiberModul 5.6HP with Smartholes  
Splice and breakout



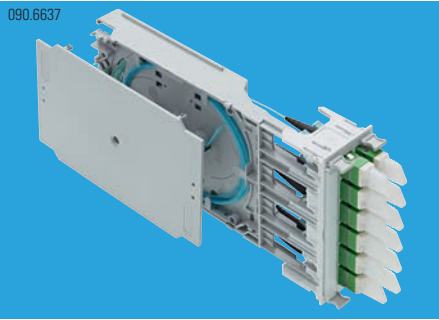
- Features**
- Up to 8 plugged connections on 5.6HP
  - Guaranteed bending radius of 35 mm
  - Expandable to Security System 1-3 thanks to Smartholes, incl. labeling field
  - Easily detachable plastic front panels
  - Choice of cable entry of 45° or 90°
  - Hold-down cross protecting the fibers
  - Up to 120 fibers per 19" 3U Global patch panel

**i** Adapters are color-coded  
(singlemode APC = green, singlemode PC = blue; multimode = beige;  
Exceptions: ST and FC = metal and SC-RJ = black)

Ordering Information	Description	MOQ	Part Number
	<b>FiberModul 5.6HP, splice, 4xSC-RJ</b> Supplied: – Slide-in unit, splice tray radius 35 mm, fastening material, labeling strips and installation instructions – Plastic front panel featuring Smatholes and mounting adapter 3U Global, equipped with 4xSC-RJ adapters, pigtails inserted and ready for splicing		
	<b>OM3, PC, ceramic, Bm/3</b>	1	R318557
	<b>OM2, PC, ceramic, Bm/3</b>	1	R318918
	<b>OM1, PC, ceramic, Bm/3</b>	1	R318917
	<b>OM3, PC, PhBr, Bm/3</b>	1	R318349
	<b>OM2, PC, PhBr, Bm/3</b>	1	R318348
	<b>OM1, PC, PhBr, Bm/3</b>	1	R318291
	<b>FiberModul 5.6HP, breakout, 4xSC-RJ</b> Supplied: – Slide-in unit, fastening material, labeling strips and installation instructions – Plastic front panel featuring Smatholes and mounting adapter 3U Global, equipped with 4xSC-RJ adapters		
	<b>multimode, PC, ceramic</b>	1	R318923
	<b>multimode, PC, PhBr</b>	1	R318293

لوحات التجميع  
FiberModul 5.6HP  
Splice and breakout

Patch Panels  
FiberModul HD  
Splice and breakout



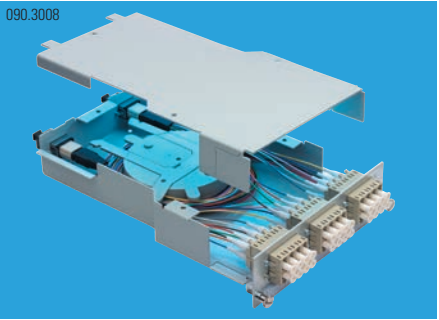
- Features**
- Up to 12 plugged connections
  - Guaranteed bending radius of 35 mm
  - Pre-numbered front plates, extra labeling field
  - Easy detachable plastic front panels
  - Choice of cable entry of 45° or 90°
  - Hold-down cross protecting the fibers
  - Up to 48 fibers per 19" 1U HD patch panel

Ordering Information	Description	MOQ	Part Number
	<b>FiberModul HD, splice,</b> Designed for 19" 1U HD patch panel. Supplied: – Slide-in unit, splice tray radius 35 mm, fastening material, labeling strips and installation instructions – Plastic front panel equipped with adapters, pigtails inserted and ready for splicing		
	<b>6xLC-Duplex OM4, PC, ceramic, Bm/3</b>	1	R515075
	<b>12xSC G.652.D, APC, ceramic, C/1</b>	1	R515076
	<b>6xSC-Duplex G.652.D, APC, ceramic, C/1</b>	1	R515077
	<b>6xLC-Duplex OM4, PC, ceramic, Bm/3, black</b>	1	R515083
	<b>12xSC G.652.D, APC, ceramic, C/1, black</b>	1	R515084
	<b>6xSC-Duplex G.652.D, APC, ceramic, C/1, black</b>	1	R515085
	<b>FiberModul HD, breakout,</b> Designed for 19" 1U HD patch panel. Supplied: – Slide-in unit, fastening material, labeling strips and installation instructions – Plastic front panel equipped with adapters		
	<b>6xLC-Duplex singlemode, PC, ceramic</b>	1	R808366
	<b>6xLC-Duplex OM3/OM4, PC, ceramic</b>	1	R515071
	<b>12xSC singlemode, APC, ceramic</b>	1	R515072
	<b>6xSC-Duplex singlemode, APC, ceramic</b>	1	R515073
	<b>6xSC-Duplex singlemode, PC, ceramic</b>	1	R808364
	<b>6xSC-Duplex multimode, PC, ceramic</b>	1	R808368
	<b>FiberModul HD, breakout,</b> Designed for 19" 1U HD patch panel. Supplied: – Slide-in unit, fastening material, labeling strips and installation instructions – Plastic front panel equipped with adapters		
	<b>6xLC-Duplex singlemode, PC, ceramic, black</b>	1	R808367
	<b>6xLC-Duplex OM3/OM4, PC, ceramic, black</b>	1	R515079
	<b>12xSC singlemode, APC, ceramic, black</b>	1	R515080
	<b>6xSC-Duplex singlemode, APC, ceramic, black</b>	1	R515081
	<b>6xSC-Duplex singlemode, PC, ceramic, black</b>	1	R808365
	<b>6xSC-Duplex multimode, PC, ceramic, black</b>	1	R808369

لوحات التجميع  
FiberModul  
عالي الكثافة  
Splice and breakout



Patch Panels  
MPO/MTP Module 7HP (Type A)



- Features**
- The wiring inside the module is straight, key up to key down (according to method A from standard TIA 568-C)
  - Easy handling (plug and play)
  - High packing density, up to 288 fibers per 3U patch panel
  - Low insertion loss performance
  - Integrated bending radius limiter and hold-down cross
  - Pre-numbered front plates, extra labeling field
  - The multimode modules are available with newest OM4 fibres and are backwards compatible with OM3 fibres

**i** Other combinations available on request.

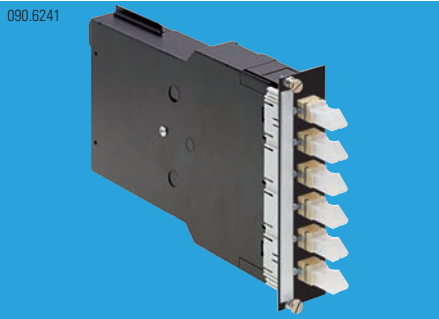

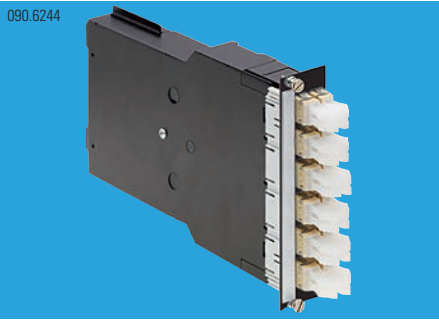
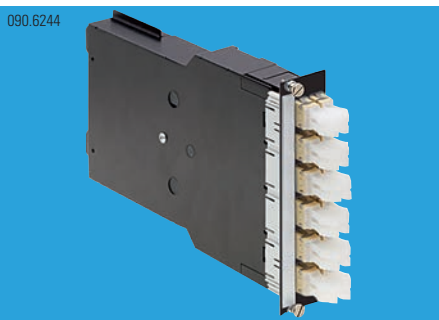
Ordering Information	Description	MOQ	Part Number
	<b>MPO Modul 7HP, metal, MTP12-male - 6xLC-Duplex,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector LC: PC. Supplied: <ul style="list-style-type: none"><li>– Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions</li><li>– Metal front panel equipped with 6xLC-Duplex adapters and fan-out inserted, rear side one MTP12-male connector mounted</li></ul> <b>OM4, PC/PC, ceramic, type A, gray</b>	1	R514563
	<b>MPO Modul 7HP, metal, MTP12-female - 6xLC-Duplex,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector LC: PC. Supplied: <ul style="list-style-type: none"><li>– Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions</li><li>– Metal front panel equipped with 6xLC-Duplex adapters and fan-outs inserted, rear side one MTP12-female connector mounted</li></ul> <b>OM4, PC/PC, ceramic, type A, gray</b>	1	R514564
	<b>MPO Modul 7HP, metal, 2xMTP12-male - 12xLC-Duplex,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector LC: PC. Supplied: <ul style="list-style-type: none"><li>– Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions</li><li>– Metal front panel equipped with 12xLC-Duplex adapters and fan-out inserted, rear side two MTP12-male connectors mounted</li></ul> <b>OM4, PC/PC, ceramic, type A, gray</b>	1	R514565






لوحات التجميع  
MPO/MTP Module 7HP (النوع A)

Patch Panels  
MPO/MTP Module 7HP (Type A)

Ordering Information	Description	MOQ	Part Number
	<b>MPO Modul 7HP, metal, 2xMTP12-female - 12xLC-Duplex,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector LC: PC. Supplied: <ul style="list-style-type: none"><li>– Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions</li><li>– Metal front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side two MTP12-female connectors mounted</li></ul> <b>OM4, PC/PC, ceramic, type A, gray</b>	1	R514566
	<b>MPO Modul 7HP, metal, MTP12-male - 6xSC-Duplex,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector SC: PC. Supplied: <ul style="list-style-type: none"><li>– Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions</li><li>– Metal front panel equipped with 6xSC-Duplex adapters and fan-out inserted, rear side one MTP12-male connector mounted</li></ul> <b>OM4, PC/PC, ceramic, type A, gray</b>	1	R514580
	<b>MPO Modul 7HP, metal, MTP12-female - 6xSC-Duplex,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector SC: PC. Supplied: <ul style="list-style-type: none"><li>– Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions</li><li>– Metal front panel equipped with 6xSC-Duplex adapters and fan-out inserted, rear side one MTP12-female connector mounted</li></ul> <b>OM4, PC/PC, ceramic, type A, gray</b>	1	R514581
	<b>MPO Modul 7HP, metal, MTP12-male - 6xSC-Duplex,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector SC: PC. Supplied: <ul style="list-style-type: none"><li>– Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions</li><li>– Metal front panel equipped with 6xSC-Duplex adapters and fan-out inserted, rear side one MTP12-male connector mounted</li></ul> <b>OM4, PC/PC, ceramic, type A, black</b>	11	R514584
	<b>MPO Modul 7HP, metal, MTP12-female - 6xSC-Duplex,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector SC: PC. Supplied: <ul style="list-style-type: none"><li>– Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions</li><li>– Metal front panel equipped with 6xSC-Duplex adapters and fan-out inserted, rear side one MTP12-female connector mounted</li></ul> <b>OM4, PC/PC, ceramic, type A, black</b>	1	R514585


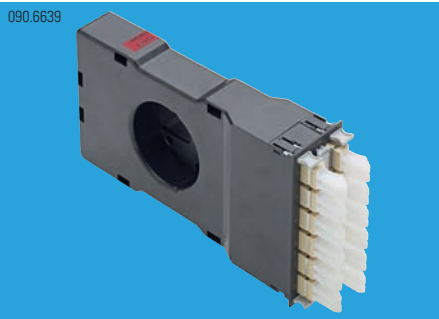


لوحات التجميع  
MPO/MTP Module 7HP (النوع A)

Ordering Information	Description	MOQ	Part Number
	<b>MPO Modul 7HP, metal, MTP12-male - 6xLC-Duplex,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector LC: PC. Supplied: – Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions – Metal front panel equipped with 6xLC-Duplex adapters and fan-out inserted, rear side one MTP12-male connector mounted <b>OM4, PC/PC, ceramic, type A, black</b>	1	R514573
	<b>MPO Modul 7HP, metal, MTP12-female - 6xLC-Duplex,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector LC: PC. Supplied: – Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions – Metal front panel equipped with 6xLC-Duplex adapters and fan-outs inserted, rear side one MTP12-female connector mounted <b>OM4, PC/PC, ceramic, type A, black</b>	1	R514574
	<b>MPO Modul 7HP, metal, 2xMTP12-male - 12xLC-Duplex,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector LC: PC. Supplied: – Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions – Metal front panel equipped with 12xLC-Duplex adapters and fan-out inserted, rear side two MTP12-male connectors mounted <b>OM4, PC/PC, ceramic, type A, black</b>	1	R514575
	<b>MPO Modul 7HP, metal, 2xMTP12-female - 12xLC-Duplex,</b> Connectivity method: type A. Polishing connector MTP: PC. Polishing connector LC: PC. Supplied: – Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions – Metal front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side two MTP12-female connectors mounted <b>OM4, PC/PC, ceramic, type A, black</b>	1	R514576



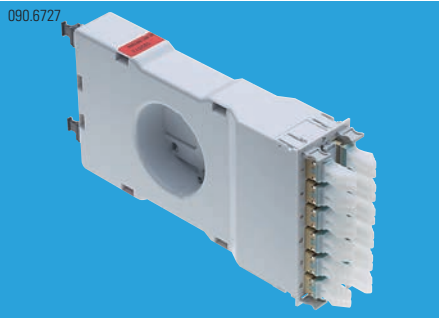
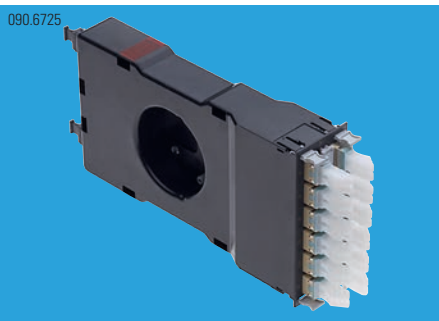
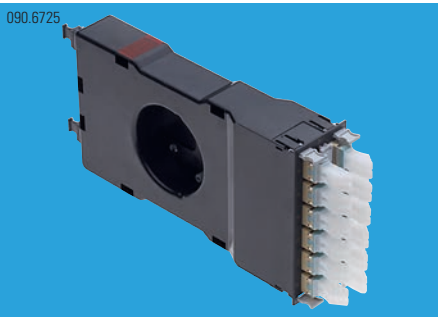
Ordering Information	Description	MOQ	Part Number
	<b>Features</b> – The wiring inside the module is straight, key up to key down (according to method A from standard TIA 568-C) – Easy handling (plug and play) – High packing density, up to 96 fibers per 19" 1U HD patch panel – Low insertion loss performance – Integrated bending radius limiter and hold-down cross – Pre-numbered front plates, extra labeling field – The multimode modules are available with newest OM4 fibres and are backwards compatible with OM3 fibres		
	<b>i</b> Other combinations available on request.		
	<b>MPO Modul HD, 2xMTP12-male - 12xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side two MTP12-male connectors mounted <b>OM4, PC/PC, type A, gray</b>	1	R807375
	<b>MPO Modul HD, MTP24-male - 12xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side one MTP24-male connector mounted <b>OM4, PC/PC, type A, gray</b>	1	R807758
	<b>MPO Modul HD, 2xMTP12-female - 12xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side two MTP12-female connectors mounted <b>OM4, PC/PC, type A, gray</b>	1	R515858
	<b>MPO Modul HD, MTP24-female - 12xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side one MTP24-female connector mounted <b>OM4, PC/PC, type A, gray</b>	1	R515861



Ordering Information	Description	MOQ	Part Number
	<b>MPO Modul HD, MTP12-female - 12xSC,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xSC adapters and fan-outs inserted, rear side one MTP12-female connector mounted	1	R515869
	<b>MPO Modul HD, MTP12-female - 6xSC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 6xSC-Duplex adapters and fan-outs inserted, rear side one MTP12-female connector mounted	1	R515873

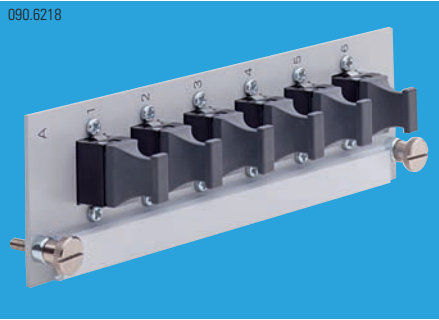
Ordering Information	Description	MOQ	Part Number
	<b>MPO Modul HD, 2xMTP12-male - 12xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side two MTP12-male connectors mounted <b>G.652.D, APC/PC, type A, black</b> <b>OM4, PC/PC, type A, black</b>	1 1	R807752 R807753
	<b>MPO Modul HD, MTP24-male - 12xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side one MTP24-male connector mounted <b>OM4, PC/PC, type A, black</b>	1	R807759
	<b>MPO Modul HD, MTP12-female - 6xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 6xLC-Duplex adapters and fan-outs inserted, rear side one MTP12-female connector mounted <b>G.652.D, APC/PC, type A, black</b> <b>OM4, PC/PC, type A, black</b>	1 1	R802295 R802158
	<b>MPO Modul HD, 2xMTP12-female - 12xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side two MTP12-female connectors mounted <b>G.652.D, APC/PC, type A, black</b> <b>OM4, PC/PC, type A, black</b>	1 1	R515859 R515860

Ordering Information	Description	MOQ	Part Number
	<b>MPO Modul HD, MTP24-female - 12xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side one MTP24-female connector mounted <b>OM4, PC/PC, type A, black</b>	1	R515862
	<b>MPO Modul HD, MTP12-female - 12xSC,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xSC adapters and fan-outs inserted, rear side one MTP12-female connector mounted <b>G.652.D, APC/PC, type A, black</b> <b>OM4, PC/PC, type A, black</b>	1 1	R515868 R515870
	<b>MPO Modul HD, MTP12-female - 6xSC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type A. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 6xSC-Duplex adapters and fan-outs inserted, rear side one MTP12-female connector mounted <b>G.652.D, APC/PC, type A, black</b> <b>OM4, PC/PC, type A, black</b>	1 1	R515872 R515874

Ordering Information	Description	MOQ	Part Number
	<b>Features</b> – The wiring inside the module is crossed, key up to key up (according to method S from R&M) – Easy handling (plug and play) – High packing density, up to 96 fibers per 19" 1U HD patch panel – Low insertion loss performance – Integrated bending radius limiter and hold-down cross – Pre-numbered front plates, extra labeling field – The multimode modules are available with newest OM4 fibres and are backwards compatible with OM3 fibres <b>i</b> Other combinations available on request.		
	<b>MPO Modul HD, 2xMTP12-male - 12xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type S. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side two MTP12-male connectors mounted <b>OM4, PC/PC, type S, gray</b>	1	R809769
	<b>MPO Modul HD, 2xMTP12-female - 12xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type S. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side two MTP12-female connectors mounted <b>OM4, PC/PC, type S, gray</b>	1	R809770
	<b>MPO Modul HD, 2xMTP12-male - 12xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type S. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side two MTP12-male connectors mounted <b>OM4, PC/PC, type S, black</b>	1	R809771
	<b>MPO Modul HD, 2xMTP12-female - 12xLC-Duplex,</b> Designed for 19" 1U HD patch panel. Connectivity method: type S. Supplied: – Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions – Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side two MTP12-female connectors mounted <b>OM4, PC/PC, type S, black</b>	1	R809772



Patch Panels  
MPO/MTP Adapter Plate 7HP  
(Type A / B)

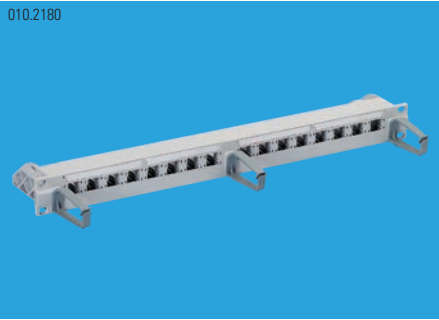



- Features**
- High density supports up to 288 fibers per adapter plate
  - Up to 3456 fibers in 3U
  - 40Gb/s and 100Gb/s ready
  - Fitts in R&M 1U und 3U, 19" sub-racks

Ordering Information	Description	MOQ	Part Number
090.6218	<b>MPO Adapter Plate 7HP, metal,</b> Adapter plate equipped with MTP adapters, type A. <b>6xMTP, type A, gray</b> <b>12xMTP, type A, gray</b>	1	R514593
		1	R514597
090.6220	<b>MPO Adapter Plate 7HP, metal,</b> Adapter plate equipped with MTP adapters, type B. <b>6xMTP, type B, gray</b> <b>12xMTP, type B, gray</b>	0	R514595
		1	R514599
090.6218	<b>MPO Adapter Plate 7HP, metal,</b> Adapter plate equipped with MTP adapters, type A. <b>6xMTP, type A, black</b> <b>12xMTP, type A, black</b>	1	R514594
		1	R514598
090.6220	<b>MPO Adapter Plate 7HP, metal,</b> Adapter plate equipped with MTP adapters, type B. <b>6xMTP, type B, black</b> <b>12xMTP, type B, black</b>	1	R514596
		1	R514600

لوحات التجميع  
MPO/MTP Adapter Plate 7HP  
(النوع B / A)

Patch Panels  
19" Patch Panel empty



Ordering Information	Description	MOQ	Part Number
010.2180	<b>19" 1U Patch Panel 16-Port/u,</b> With a capacity for 16 unshielded RJ45 connection modules or 4 FiberModules 1U. Supplied: – 19" 1U 16-port patch panel, empty, unshielded – 19" mounting kit – 3 jumpering brackets – 4 labeling strips – Installation instructions <b>empty</b>	1	R305890
090.6408	<b>19" 1U Modularpanel 36,</b> Patch panel with capacity of up to 3 module, 7HP. Supplied: – Modularpanel – Fastening kit – Installation instructions <b>3x7HP, gray, empty</b> <b>3x7HP, black, empty</b>  Without cover.	1	R804258
		1	R804259
090.6100	<b>19" 1U HD Patch Panel 48-Port,</b> Metal patch panel with integrated cable tie shelf. Ready for all HD inserts (copper / FO). Supplied: – 19" 1U HD patch panel – 19" mounting kit – 4 velcro strips – Installation instructions <b>gray, empty</b> <b>black, empty</b>	1	R512416
		1	R512721
090.6758	<b>Connection Module Holder HD, 4x 6-port,</b> To be mounted into 19" 1U HD patch panels family. The ports are consecutively numbered from 1 to 24. Suitable for adapters E-2000™, LC-Duplex, MTP or SC. <b>E-2000™ / LC-Duplex / MTP / SC with blind element, gray</b> <b>E-2000™ / LC-Duplex / MTP / SC with blind element, black</b>	1	R807766
		1	R807767

لوحات التجميع  
لوحات التجميع عرض 19 بوصة. فارغة

Patch Panels  
19" Patch Panel empty

لوحات التجميع  
لوحات التجميع عرض 19 بوصة، فارغة

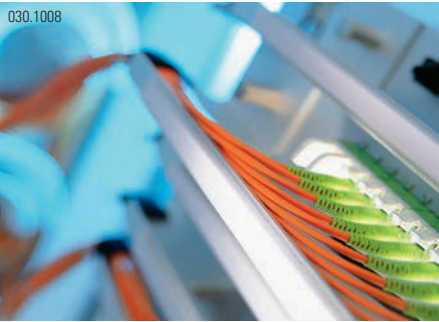
Ordering Information	Description	MOQ	Part Number
	<b>Connection Module Holder HD, 4x 12-port,</b> To be mounted into 19" 1U HD patch panels family. The ports are consecutively numbered from 1 to 48. Suitable for adapters E-2000™, LC-Duplex, MTP or SC.	1	R807768
	<b>E-2000™ / LC-Duplex / MTP / SC, gray</b> <b>E-2000™ / LC-Duplex / MTP / SC, black</b>	1	R807769
	<b>19" 1U HD Basic Patch Panel 24xLC-Duplex / MPO,</b> With a capacity for 24 adapters LC-Duplex (flangeless), E-2000™ (flangeless), SC (flangeless) or MPO (flangeless). Supplied: – 19" 1U HD Basic patch panel – 4 6-port connection module holders HD with blind element – 19" mounting kit – Velcro tape – Installation instructions	1	R512696
	<b>gray, empty</b> <b>black, empty</b>  Without adapters.	1	R512740
	<b>19" 1U HD Basic Patch Panel 48xLC-Duplex / MPO,</b> With a capacity for 48 adapters LC-Duplex (flangeless), E-2000™ (flangeless), SC (flangeless) or MPO (flangeless). Supplied: – 19" 1U HD Basic patch panel – 4 12-port connection module holders HD – 19" mounting kit – Velcro tape – Installation instructions	1	R512697
	<b>gray, empty</b> <b>black, empty</b>  Without adapters.	1	R512741
	<b>19" 1U HD Patch Panel 24xLC-Duplex / MPO,</b> With a capacity for 24 adapters LC-Duplex (flangeless), E-2000™ (flangeless), SC (flangeless) or MPO (flangeless). Supplied: – 19" 1U HD patch panel – 4 6-port connection module holders HD with blind element – 19" mounting kit – Velcro tape – Installation instructions	1	R512694
	<b>gray, empty</b> <b>black, empty</b>  Without adapters.	1	R512738

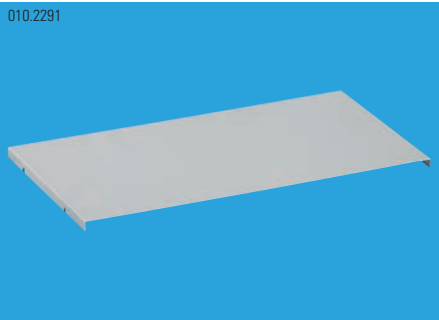
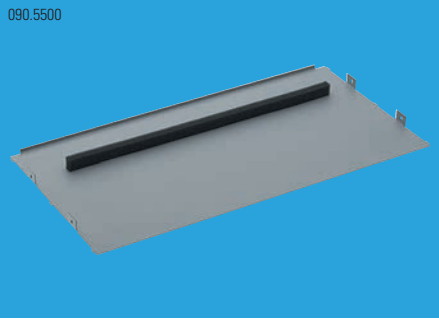
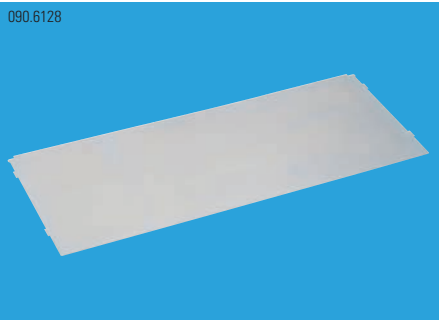
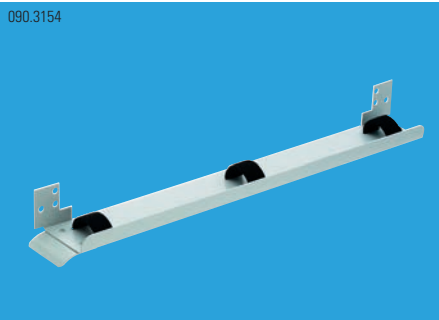
Patch Panels  
19" Patch Panel empty

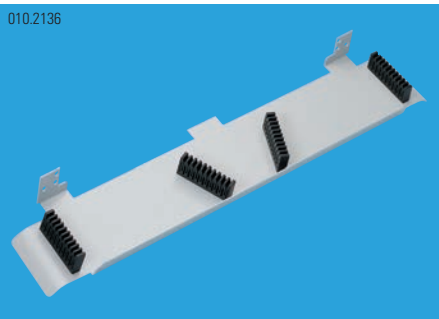
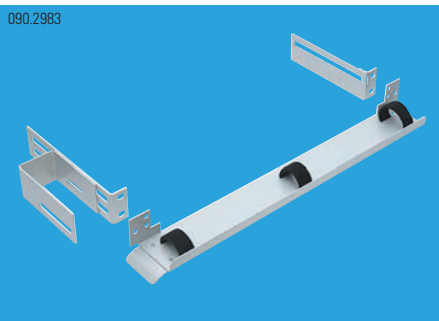
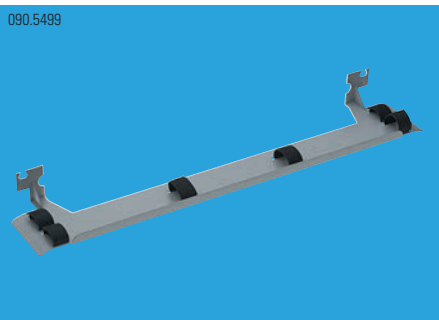
لوحات التجميع  
لوحات التجميع عرض 19 بوصة، فارغة

Ordering Information	Description	MOQ	Part Number
	<b>19" 1U HD Patch Panel 48xLC-Duplex / MPO,</b> With a capacity for 48 adapters LC-Duplex (flangeless), E-2000™ (flangeless), SC (flangeless) or MPO (flangeless). Supplied: – 19" 1U HD patch panel – 4 12-port connection module holders HD – 19" mounting kit – Velcro tape – Installation instructions	1	R512695
	<b>gray, empty</b> <b>black, empty</b>  Without adapters.	1	R512739
	<b>19" 3U Global Patch Panel 60-Port/u,</b> Holds up to fifteen Global/u connection module holders, Global blind covers or six Global adapter units. Max. capacity of 60 RJ45/u connection modules. Supplied: – 19" 3U Global patch panel/u incl. cable tie shelf – 19" mounting kit – Installation instructions	1	R35409
	<b>empty</b>		
	<b>19" 3U Global Rack F0,</b> Capacity of twelve FiberModules/MPO Modules (144 - 288 terminations). Color: medium gray (NCS 2502-B). Dimensions: 3U, 84HP. Supplied: – Global patch panel – 1x insertion guide – Card guiding set – Fastening material	1	R319101
	<b>empty</b>		





Ordering Information	Description	MOQ	Part Number
	<b>19" 1U SpliceBox / BreakoutBox, cover</b> Protection against external mechanical factors. Opened and closed with a screwdriver. Color: medium gray (NCS 2502-B). Supplied: – Cover (sheet steel) – 4 screws M4x8 mm	1	R306775
	<b>19" 1U Modularpanel 36, cover,</b> Protection against external mechanical factors. Opened and closed with a screwdriver. Supplied: – Cover (sheet steel) – 4 screws M4x6 mm <b>gray</b> <b>metallic</b>	1 1	R510710 R802909
	<b>19" 1U HD Patch Panel, cover</b> Protection against external mechanical factors through snap-on cover.	1	R512698
	<b>Cable Guide</b> For the horizontal patch cords routing. Fitted directly to the rack. Applicable when the 19" side mounting brackets are not in back-set position. Patching rings are an equivalent option. Color: powder-coated, medium gray, NCS 2502-B. Supplied: – Cable guide – 3 Velcro fasteners 200 mm <b>60 mm</b>	1	R320180

Ordering Information	Description	MOQ	Part Number
	<b>Cable Guide</b> For the horizontal patch cords routing. Fitted directly to the rack. Applicable when the 19" side mounting brackets are not in back-set position. Patching rings are an equivalent option. Color: powder-coated, medium gray, NCS 2502-B. Material: 1.5 mm sheet steel. Supplied: – Cable guide – Velcro fastener 600 mm <b>75 mm</b> <b>110 mm</b>	1 1	R30315 R302003
	<b>Cable Guide FOM</b> For the horizontal patch cord routing. Fitted directly to the rack. Applicable when the 19" side mounting brackets are not in back-set position. Patching rings are an equivalent option. Color: powder-coated, medium gray, NCS 2502-B. Material: 1.5 mm sheet steel. Supplied: – Cable guide – 4 strain relief elastics <b>110 mm</b>	1	R304439
	<b>Cable Guide ETSI - 19"</b> Reduced from ETSI to 19". The patch panel position is continuously adjustable (-60 mm to +30 mm). For the horizontal and vertical patch cords routing. Color: powder-coated, medium gray, NCS 2502-B. Supplied: – Mounting brackets ETSI to 19" – Cable guide 60 mm – Velcro fastener 500 mm <b>60 mm</b>	1	R317003
	<b>19" 1U Cable Guide Modular,</b> For the horizontal patch cords routing. Fitted directly to the racks at the front of the 19" profiles. Material: 1.25 mm sheet steel, powder-coated. Supplied: – Cable guide – Velcro fastener 500 mm <b>100 mm, gray</b> <b>100 mm, black</b>	1 1	R510711 R510889

Ordering Information	Description	MOQ	Part Number
010.1690	<b>Patching Ring left / right,</b> The patching ring protects the admissible bending radius of the fiber glass cable. Mounted at the front of the 19" profiles. Material: 1.5 mm sheet steel, powder-coated. Supplied: – Patching rings left and right – Velcro fastener 200 mm (for closed racks with front doors) <b>35 mm, gray</b>	1	R302004
		1	R510887
010.2183	<b>Patching Ring left / right,</b> The patching ring protects the admissible bending radius of the fiber glass cable. Mounted at the front of the 19" profiles. Material: 1.5 mm sheet steel, powder-coated. Supplied: – Patching rings left and right – Velcro fastener 400 mm for depth 75 mm <b>75 mm, gray</b>	1	R302005
		1	R510888
010.2137	<b>Patching Ring FOM left / right,</b> The patching ring protects the admissible bending radius of the fiber glass cable. Mounted at the front of the 19" profiles. Color: powder-coated, medium gray, NCS 2502-B. Material: 1.5 mm sheet steel. Supplied: – Patching rings left and right – 2 strain relief elastics <b>75 mm, gray</b>	1	R304440
030.0925	<b>Velcro Tape,</b> For bundling and fixating pressure-sensitive data and fiberoptic cables. <b>0.5 m</b>	10	R301569
010.2201	<b>21" 1U Adapter Kit UniRack</b> With these adapters, 19" components can be fitted into metric profile rails (535 mm). Color: powder-coated, medium gray, NCS 2502-B. Material: 1.5 mm sheet steel. Supplied: – 2 adapters of 21 inches – Fastening material	1	R305148

Ordering Information	Description	MOQ	Part Number
090.5835	<b>Rear Cable Guide for</b> For the backside MPO-trunk cable routing. Fitted directly to the back of the panel. Material: steel, 1.5 mm. <b>19" MPO Panel, gray</b> <b>19" MPO Panel, black</b>	1	R510890
		1	R511922
010.1692	<b>Rear Cable Guide for</b> This rear cable guide is an additional support for FO cables or flex hoses (not for use with Fibereasy Rack). Material: 1.5 mm aluminum. Supplied: – 1 cable guide – Fastening material <b>19" UniRack / Splice-, BreakoutBox</b>	1	R302058
010.1693	<b>Rear Cable Entry M20 for</b> The rear cable entry is an additional relief on the FO cable (not for use with Fibereasy Rack). Material: 2.0 mm aluminum. Supplied: – Cable entry – M20 screwing – Fastening material <b>19" UniRack / Splice, BreakoutBox</b>	1	R302006
030.1027.1	<b>Fibereasy Breakout Kit</b> Additional patching guides for the slide-in unit to extend the excess length deposit. Max. five radius guards per 19" 1U FibereasyRack can be fitted. Color: gray. Material: ABS. Dimensions: 50 x 50 x 15 mm, radius 45°/90°. Supplied: – 4 radius guards, 15 mm – Mounting material	1	R303577






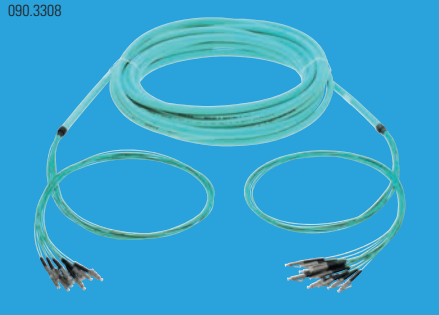
Ordering Information	Description	MOQ	Part Number
090.2779			
	<b>FiberModul Front Panel 1HP, blind</b>	10	R318527
090.2708			
	<b>FiberModul Front Panel 7HP, blind</b> Supplied: – Front panel 7HP, blind – Labeling strips	1	R318528
090.5099			
	<b>FiberModul Overlength Tray</b> Up to 2.5 m overlength reserve on a dimension of 7HP. Suitable for standard loose tubes with a diameter from 2.8 mm to 3.0 mm. Easy insertion of the loose tubes, thanks to intelligent overlength managment. Choosesable cable entry 45° oder 90°. Easy and guided transfer of the loose tube inside the splice tray, guaranteed bending radius of 35 mm. Extremely space saving inside the whole rack, no separate cable drawer needed. Supplied: – Overlength tray – 2 cable ties – Installation instruction	1	R504430
<b>i</b> Not applicable with the 1U, FiberModul.			

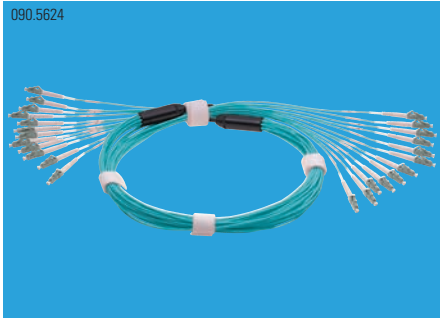
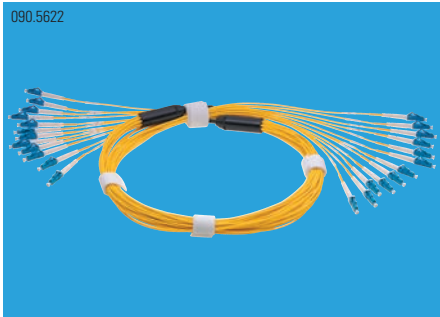
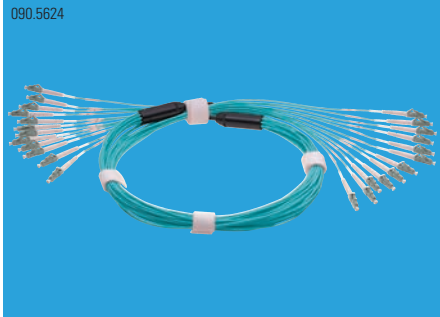
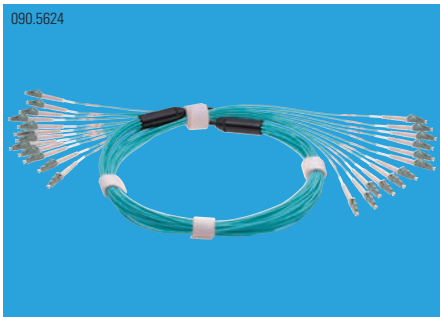
Ordering Information	Description	MOQ	Part Number
090.5095			
	<b>FiberModul Front Panel Extension, 4.2HP</b> Extension of FiberModul 7HP up to 11.2HP in combination with the overlength tray. <b>i</b> Needed when the FiberModul 7HP version should be mounted in a 3U copper patch panel.	1	R505676
090.2810			
	<b>Mounting Plate for Cable Guide Set</b>	1	R318523
090.2984			
	<b>Insertion Guide 3U Global Rack FO, 144 Fibers</b> Supplied: – 19" universal cable shelf – Card guiding kit	1	R319103
030.0011			
	<b>3U Front Plate Part,</b> Dummy plate to cover unused ports on the 1U and 3U sub-rack. Material: sheet steel. <b>gray, 7HP</b> <b>black, 7HP</b> <b>gray, 8HP</b>	1 1 1	R304571 R802910 R30055-3-8
020.0045			
	<b>Labeling Sheet FiberModul 7HP</b> For the labeling of front plates FiberModul 7HP. Dimensions: A4. Material: paper, white, perforated. Supplied: – Labeling sheet (36 strips without logo)	1	R318459

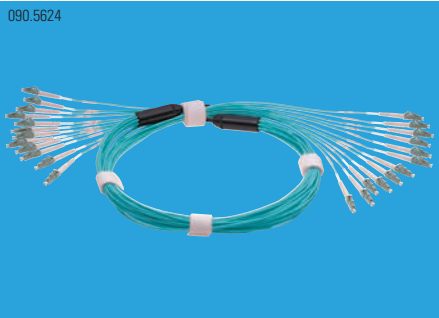
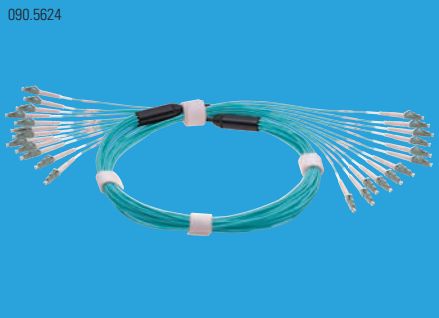
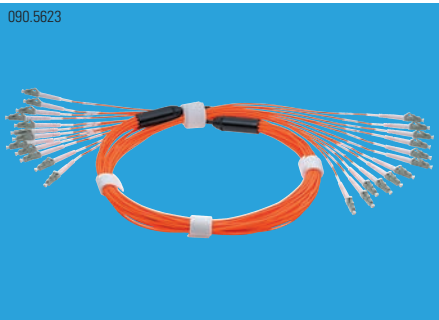
Ordering Information	Description	MOQ	Part Number
020.0045	<b>Labeling Sheet 3U Global Module Holder</b> For the labeling of front plates and 19" insertions. Dimensions: A4. Material: paper, white, perforated. Supplied: – 3U Global module holder labeling sheet (50 strips without logo)	10	R30871
010.1964	<b>19" 1U Contact Drawer</b> For storing spare loose tubes. Color: NCS 2502-B, medium gray. Material: sheet steel. Dimensions: 482.6x43.6(1U)x230 mm (WxHxD). Supplied: – 19" 1U contact drawer – Fastening material – Excluding FO baffle guides	1	R305374
010.2311	<b>Baffle Guide</b> For smooth patch cord guiding. For use with 19" 1U contact drawers. Color: NCS 2502-B, medium gray. Material: ABS/PC. Supplied: – Baffle guide – Fastening material <b>right</b> <b>left</b>	3 3	R30125 R30126
090.5225	<b>Distributor Box FO</b> Distributor box for a flexible split-up / summing-up of different loose tube fibers. Supplied: – Distributor box, incl. cover – Laser signet – 2 central member clamp – 6 cable ties	1	R509120





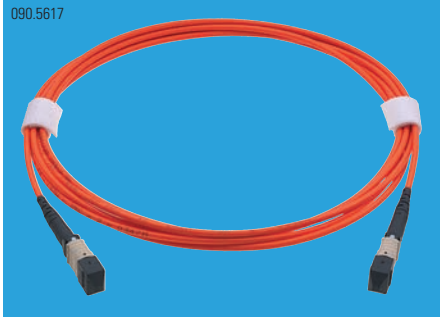
Ordering Information	Description	MOQ	Part Number
090.3309	<b>Breakout Cable LC PC 12x - LC PC 12x, blue,</b> Both sides fitted with 12 LC PC connector. Connector color: blue. Fiber: SM E9/125 G.652.D (OS1, OS2). Cable: Breakout 12-fibers, Ø 12.5 mm, yellow. Fan-out legs of 1.0 m length (on both sides). <b>G.652.D, C/2, 10 m</b> <b>G.652.D, C/2, 20 m</b> <b>G.652.D, C/2, 30 m</b>	1 1 1	R502292 R502294 R502295
090.3242	<b>Breakout Cable LC PC 12x - LC PC 12x, beige,</b> Both sides fitted with 12 LC PC connector. Connector color: beige. Fiber: MM G50/125 (OM3). Cable: Breakout 12-fibers, Ø 12.5 mm, green. Fan-out legs of 1.0 m length (on both sides). <b>OM3, Bm/3, 10 m</b> <b>OM3, Bm/3, 20 m</b> <b>OM3, Bm/3, 30 m</b> <b>i</b> UV stabilized LSZH sheath	1 1 1	R320803 R320800 R320798
090.3309	<b>Breakout Cable LC PC 24x - LC PC 24x, blue,</b> Both sides fitted with 24 LC PC connector. Connector color: blue. Fiber: SM E9/125 G.652.D (OS1, OS2). Cable: Breakout 24-fibers, Ø 14.5 mm, yellow. Fan-out legs of 1.0 m length (on both sides). <b>G.652.D, C/2, 10 m</b> <b>G.652.D, C/2, 20 m</b> <b>G.652.D, C/2, 30 m</b>	1 1 1	R502271 R502288 R502290
090.3308	<b>Breakout Cable LC PC 24x - LC PC 24x, beige,</b> Both sides fitted with 24 LC PC connector. Connector color: beige. Fiber: MM G50/125 (OM3). Cable: Breakout 24-fibers, Ø 14.5 mm, turquoise. Fan-out legs of 1.0 m length (on both sides). <b>OM3, Bm/3, 10 m</b> <b>OM3, Bm/3, 20 m</b> <b>OM3, Bm/3, 30 m</b>	1 1 1	R502432 R502433 R502439
090.3309	<b>Breakout Cable SC PC 12x - SC PC 12x, blue,</b> Both sides fitted with 12 SC PC connector. Connector color: blue. Fiber: SM E9/125 G.652.D (OS1, OS2). Cable: Breakout 12-fibers, Ø 12.5 mm, yellow. Fan-out legs of 1.0 m length (on both sides). <b>G.652.D, C/2, 10 m</b> <b>G.652.D, C/2, 20 m</b> <b>G.652.D, C/2, 30 m</b>	1 1 1	R501880 R502336 R502338



Ordering Information	Description	MOQ	Part Number
	<b>Breakout Cable SC PC 12x - SC PC 12x, beige,</b> Both sides fitted with 12 SC PC connector. Connector color: beige. Fiber: MM G50/125 (OM3). Cable: Breakout 12-fibers, Ø 12.5 mm, turquoise. Fan-out legs of 1.0 m length (on both sides).		
	<b>OM3, Bm/3, 10 m</b>	1	R502248
	<b>OM3, Bm/3, 20 m</b>	1	R502249
	<b>OM3, Bm/3, 30 m</b>	1	R502251
	<b>Breakout Cable SC PC 24x - SC PC 24x, blue,</b> Both sides fitted with 24 SC PC connector. Connector color: blue. Fiber: SM E9/125 G.652.D (OS1, OS2). Cable: Breakout 24-fibers, Ø 14.5 mm, yellow. Fan-out legs of 1.0 m length (on both sides).		
	<b>G.652.D, C/2, 10 m</b>	1	R502299
	<b>G.652.D, C/2, 20 m</b>	1	R502306
	<b>G.652.D, C/2, 30 m</b>	1	R502332
	<b>Breakout Cable SC PC 24x - SC PC 24x, beige,</b> Both sides fitted with 24 SC PC connector. Connector color: beige. Fiber: MM G50/125 (OM3). Cable: Breakout 24-fibers, Ø 14.5 mm, turquoise. Fan-out legs of 1.0 m length (on both sides).		
	<b>OM3, Bm/3, 10 m</b>	1	R502234
	<b>OM3, Bm/3, 20 m</b>	1	R502237
	<b>OM3, Bm/3, 30 m</b>	1	R502241

Ordering Information	Description	MOQ	Part Number
	– Pre-converted MiniCore cable with LC connectors on both sides – Fiber count 12/24/48/72 – Number code for individual identification – LSZH, Plenum or Riser cable sheath – Pulling eye (optional)		
	<b>Trunk Cable, 24fibers, LC PC - LC PC,</b> Pre-converted MiniCore cable with LC PC connectors on both sides. Leg length: 80 cm (on both sides). Connector color: blue. Fiber: SM E9/125 G.652.D (OS1, OS2). Outer jacket: LSZH. Cable: yellow. Supplied: – Test report, pulling eye on both sides.		
	<b>G.652.D, C/2, LSZH, 10 m</b>	1	R511938
	<b>G.652.D, C/2, LSZH, 20 m</b>	1	R511939
	<b>Trunk Cable, 24fibers, LC PC - LC PC,</b> Pre-converted MiniCore cable with LC PC connectors on both sides. Leg length: 80 cm (on both sides). Connector color: beige Fiber: MM G50/125 (OM4). Outer jacket: LSZH. Cable: turquoise. Supplied: – Test report, pulling eye on both sides.		
	<b>G.652.D, C/2, LSZH, 10 m</b>	1	R511938
	<b>G.652.D, C/2, LSZH, 20 m</b>	1	R511939
	<b>G.652.D, C/2, LSZH, 30 m</b>	1	R511940
	<b>Trunk Cable, 24fibers, LC PC - LC PC,</b> Pre-converted MiniCore cable with LC PC connectors on both sides. Leg length: 80 cm (on both sides). Connector color: beige Fiber: MM G50/125 (OM4). Outer jacket: LSZH. Cable: turquoise. Supplied: – Test report, pulling eye on both sides.		
	<b>OM4, Bm/3, LSZH, 10 m</b>	1	R511953
	<b>OM4, Bm/3, LSZH, 20 m</b>	1	R511954
	<b>OM4, Bm/3, LSZH, 30 m</b>	1	R511955
	<b>Trunk Cable, 12fibers, LC PC - LC PC,</b> Pre-converted MiniCore cable with LC PC connectors on both sides. Leg length: 80 cm (on both sides). Connector color: beige Fiber: MM G50/125 (OM3). Outer jacket: LSZH. Cable: turquoise. Supplied: – Test report, pulling eye on both sides.		
	<b>OM3, Bm/3, LSZH, 10 m</b>	1	R511944
	<b>OM3, Bm/3, LSZH, 20 m</b>	1	R511945
	<b>OM3, Bm/3, LSZH, 30 m</b>	1	R511946

Ordering Information	Description	MOQ	Part Number
	<b>Trunk Cable, 24fibers, LC PC - LC PC,</b> Pre-converted MiniCore cable with LC PC connectors on both sides. Leg length: 80 cm (on both sides). Connector color: beige Fiber: MM G50/125 (OM3). Outer jacket: LSZH. Cable: turquoise. Supplied: – Test report, pulling eye on both sides.	1	R511947
	<b>OM3, Bm/3, LSZH, 10 m</b>	1	R511948
	<b>OM3, Bm/3, LSZH, 20 m</b>	1	R511949
	<b>OM3, Bm/3, LSZH, 30 m</b>		
	<b>Trunk Cable, 48fibers, LC PC - LC PC,</b> Pre-converted MiniCore cable with LC PC connectors on both sides. Leg length: 80 cm (on both sides). Connector color: beige Fiber: MM G50/125 (OM3). Outer jacket: LSZH. Cable: turquoise. Supplied: – Test report, pulling eye on both sides.	1	R511950
	<b>OM3, Bm/3, LSZH, 10 m</b>	1	R511951
	<b>OM3, Bm/3, LSZH, 20 m</b>	1	R511952
	<b>OM3, Bm/3, LSZH, 30 m</b>		
	<b>Trunk Cable, 24fibers, LC PC - LC PC,</b> Pre-converted MiniCore cable with LC PC connectors on both sides. Leg length: 80 cm (on both sides). Connector color: beige Fiber: MM G50/125 (OM2). Outer jacket: LSZH. Cable: orange. Supplied: – Test report, pulling eye on both sides.	1	R511941
	<b>OM2, Bm/3, LSZH, 10 m</b>	1	R511942
	<b>OM2, Bm/3, LSZH, 20 m</b>	1	R511943
	<b>OM2, Bm/3, LSZH, 30 m</b>		

Ordering Information	Description	MOQ	Part Number
	<b>Features</b> – Backbone installation – Choice of either both ends with pins (male type) or both ends without pins (female type) – Choices of MPO/MTP in 12 or 24-fiber connector interface – Type A (key-up to key-down) connector cable – Test report supplied with each cable assembly		
	<b>i</b> Other length, cable jacket and polarity on request.		
	<b>Trunk Cable, 12fibers, MTP12-male PC - MTP12-male PC,</b> Both sides fitted with MTP12-male PC connector. Connector color: black. Frame color: turquoise. Fiber: MM G50/125 (OM4). Cable: turquoise. <b>OM4, LSZH, type A, 10 m</b> <b>OM4, LSZH, type A, 20 m</b> <b>OM4, LSZH, type A, 30 m</b>	1 1 1	R802062 R806241 R806202
	<b>Trunk Cable, 12fibers, MTP12-male PC - MTP12-male PC,</b> Both sides fitted with MTP12-male PC connector. Connector color: black. Frame color: turquoise. Fiber: MM G50/125 (OM3). Cable: turquoise. <b>OM3, LSZH, type A, 10 m</b> <b>OM3, LSZH, type A, 20 m</b> <b>OM3, LSZH, type A, 30 m</b>	1 1 1	R803818 R803319 R803320
	<b>Trunk Cable, 12fibers, MTP12-female PC - MTP12-female PC,</b> Both sides fitted with MTP12-female PC connector. Connector color: black. Frame color: turquoise. Fiber: MM G50/125 (OM4). Cable: turquoise. <b>OM4, LSZH, type A, 10 m</b> <b>OM4, LSZH, type A, 20 m</b> <b>OM4, LSZH, type A, 30 m</b>	1 1 1	R511917 R511918 R511919
	<b>Trunk Cable, 12fibers, MTP12-female PC - MTP12-female PC,</b> Both sides fitted with MTP12-female PC connector. Connector color: black. Frame color: beige. Fiber: MM G50/125 (OM2). Cable: orange. <b>OM2, LSZH, type A, 10 m</b> <b>OM2, LSZH, type A, 20 m</b> <b>OM2, LSZH, type A, 30 m</b>	1 1 1	R511911 R511912 R511913



Pre-Terminated Cables  
Trunk Cable MPO/MTP (Type B)






- Features**
- Backbone installation
  - Choice of either both ends with pins (male type) or both ends without pins (female type)
  - Choices of MPO/MTP in 12 or 24-fiber connector interface
  - Type B (key-up to key-up) connector cable
  - Test report supplied with each cable assembly

 Other length, cable jacket and polarity on request.

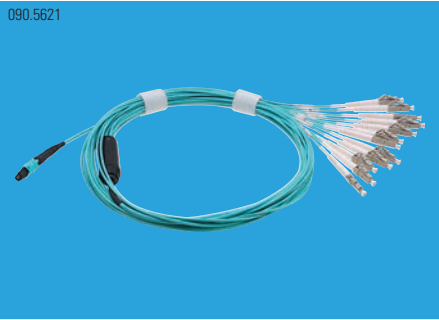
Ordering Information	Description	MOQ	Part Number
	<b>Trunk Cable, 12fibers, MTP12-male PC - MTP12-male PC,</b> Both sides fitted with MTP12-male PC connector. Connector color: black. Frame color: turquoise. Fiber: MM G50/125 (OM4). Cable: turquoise.		
	<b>OM4, LSZH, type B, 10 m</b>	1	R804560
	<b>OM4, LSZH, type B, 20 m</b>	1	R806242
	<b>OM4, LSZH, type B, 30 m</b>	1	R806243
	<b>Trunk Cable, 12fibers, MTP12-male PC - MTP12-male PC,</b> Both sides fitted with MTP12-male PC connector. Connector color: black. Frame color: turquoise. Fiber: MM G50/125 (OM3). Cable: turquoise.		
	<b>OM3, LSZH, type B, 10 m</b>	1	R806244
	<b>OM3, LSZH, type B, 20 m</b>	1	R806245
	<b>OM3, LSZH, type B, 30 m</b>	1	R806246
	<b>Trunk Cable, 24fibers, MTP24-male PC - MTP24-male PC,</b> Both sides fitted with MTP24-male PC connector. Connector color: black. Frame color: turquoise. Fiber: MM G50/125 (OM4). Cable: turquoise.		
	<b>OM4, LSZH, type B, 10 m</b>	1	R804558
	<b>OM4, LSZH, type B, 20 m</b>	1	R806250
	<b>OM4, LSZH, type B, 30 m</b>	1	R806251

كوابل سابقة التوصيل  
كوابل رئيسية MPO/MTP (النوع B)

Pre-Terminated Cables  
Trunk Cable MPO/MTP (Type B)

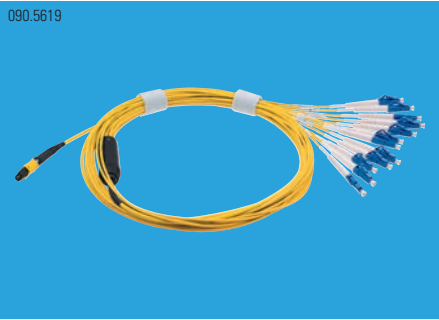
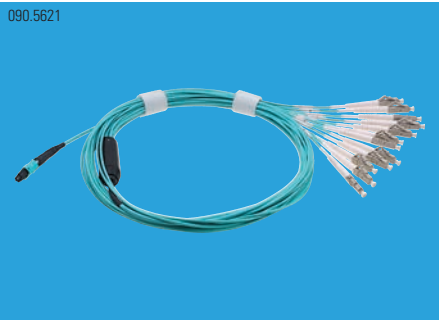
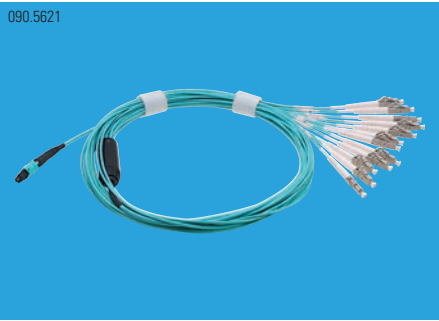
Ordering Information	Description	MOQ	Part Number
	<b>Trunk Cable, 24fibers, MTP24-male PC - MTP24-male PC,</b> Both sides fitted with MTP24P-male PC connector. Connector color: black. Frame color: turquoise. Fiber: MM G50/125 (OM3). Cable: turquoise.		
	<b>OM3, LSZH, type B, 10 m</b>	1	R806258
	<b>OM3, LSZH, type B, 20 m</b>	1	R806259
	<b>OM3, LSZH, type B, 30 m</b>	1	R806260
	<b>Trunk Cable, 12fibers, MTP12-female PC - MTP12-female PC,</b> Both sides fitted with MTP12-female PC connector. Connector color: black. Frame color: turquoise. Fiber: MM G50/125 (OM4). Cable: turquoise.		
	<b>OM4, LSZH, type B, 10 m</b>	1	R806319
	<b>OM4, LSZH, type B, 20 m</b>	1	R806320
	<b>OM4, LSZH, type B, 30 m</b>	1	R806321
	<b>Trunk Cable, 12fibers, MTP12-female PC - MTP12-female PC,</b> Both sides fitted with MTP12-female PC connector. Connector color: black. Frame color: turquoise. Fiber: MM G50/125 (OM3). Cable: turquoise.		
	<b>OM3, LSZH, type B, 10 m</b>	1	R805214
	<b>OM3, LSZH, type B, 20 m</b>	1	R806322
	<b>OM3, LSZH, type B, 30 m</b>	1	R806323
	<b>Trunk Cable, 24fibers, MTP24-female PC - MTP24-female PC,</b> Both sides fitted with MTP24-female PC connector. Connector color: black. Frame color: turquoise. Fiber: MM G50/125 (OM4). Cable: turquoise.		
	<b>OM4, LSZH, type B, 10 m</b>	1	R806252
	<b>OM4, LSZH, type B, 20 m</b>	1	R806253
	<b>OM4, LSZH, type B, 30 m</b>	1	R806254
	<b>Trunk Cable, 24fibers, MTP24-female PC - MTP24-female PC,</b> Both sides fitted with MTP24-female PC connector. Connector color: black. Frame color: turquoise. Fiber: MM G50/125 (OM3). Cable: turquoise.		
	<b>OM3, LSZH, type B, 10 m</b>	1	R806255
	<b>OM3, LSZH, type B, 20 m</b>	1	R806256
	<b>OM3, LSZH, type B, 30 m</b>	1	R806257

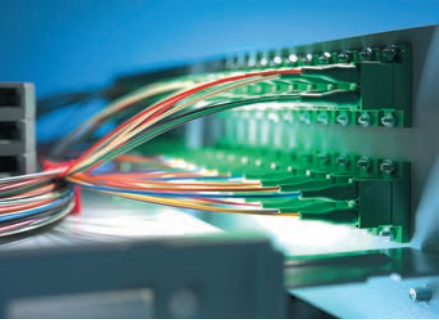
كوابل سابقة التوصيل  
كوابل رئيسية MPO/MTP (النوع B)



- Features**
- For transition from trunk backbone assemblies to fiber rack system
  - MPO/MTP connector on one end, with single-fiber connectors on another end
  - Single-fiber connector interface available in LC and SC
  - Standard furcation lenght 0.8 meters
  - Delivered with pulling eye on single-fiber connectors side
  - Test report supplied with each cable assembly

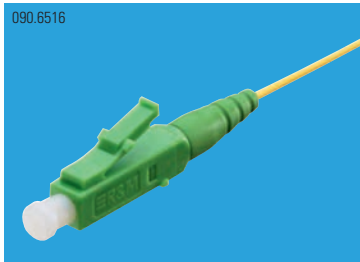
**i** Other length, cable jacket und polarity on request.

Ordering Information	Description	MOQ	Part Number
	<b>Harness Cable, 12fibers, MTP12-male APC - LC PC 12x,</b> Fitted with MTP12-male APC and 12 LC PC connector. Connector color MTP: black. Frame color MTP: yellow. Connector color LC: blue. Fiber: SM E9/125 G.652.D (OS1, OS2). Cable: yellow. Supplied: – Cable terminated with connectors – Including pulling eye		
	<b>G.652.D, LSZH, 10 m</b>	1	R511923
	<b>G.652.D, LSZH, 20 m</b>	1	R511924
	<b>G.652.D, LSZH, 30 m</b>	1	R511925
	<b>Harness Cable, 12fibers, MTP12-male PC - LC PC 12x,</b> Fitted with MTP12-male PC and 12 LC PC connector. Connector color MTP: black. Frame color MTP: turquoise. Connector color LC: beige. Fiber: MM G50/125 (OM4). Cable: turquoise. Supplied: – Cable terminated with connectors – Including pulling eye		
	<b>OM4, LSZH, 10 m</b>	1	R511932
	<b>OM4, LSZH, 20 m</b>	1	R511933
	<b>OM4, LSZH, 30 m</b>	1	R511934
	<b>Harness Cable, 12fibers, MTP12-female PC - LC PC 12x,</b> Fitted with MTP12-female PC and 12 LC PC connector. Connector color MTP: black. Frame color MTP: turquoise. Connector color LC: beige. Fiber: MM G50/125 (OM4). Cable: turquoise. Supplied: – Cable terminated with connectors – Including pulling eye		
	<b>OM4, LSZH, 10 m</b>	1	R804147
	<b>OM4, LSZH, 20 m</b>	1	R804148
	<b>OM4, LSZH, 30 m</b>	1	R804149



All pigtails from R&M are delivered as double pigtails of five meters in length. They are marked at 2.5 m for the bisection but not cut through.  
All pigtail fibers are semi-tight buffer 0.9 mm one side fitted with FO connector.

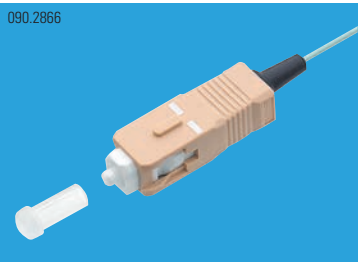
Single Mode Pigtails



LC - APC



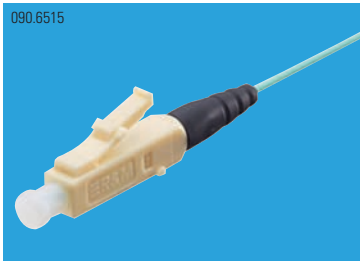
LC - PC



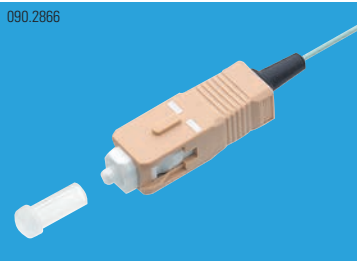
SC

Connector type	Polish type	Single Mode							
		Grade -A		Grade -B		Grade -C		Grade -D	
		G652.D	G657.A	G652.D	G657.A	G652.D	G657.A	G652.D	G657.A
LC	APC	R803509	R803536	R803514	R803537	R803524	R803538		
	PC	R803542	R803539	R803543	R803540	R803544	R803541	R803545	
SC	APC					R31015			
	PC					R31014			

Multimode Pigtails



LC



SC

Connector type	Polish type	Multi Mode			
		OM1	OM2	OM3	OM4
		62.5/125	50/125	50/125	50/125
LC	PC	R803546	R803547	R803548	R803549
SC	PC	R301462	R301461	R307388	R802912



090.2067

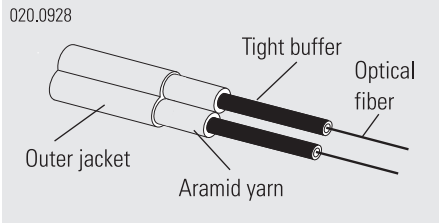


Fiber Optic patch cords LC, SC, SC-RJ, Hybrid

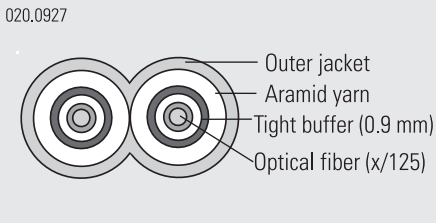
- Features
- Available in wide range of lengths
  - Duplex patch cords - SM, MM
  - LSZH cable jacket

FO Duplex Patch Cord

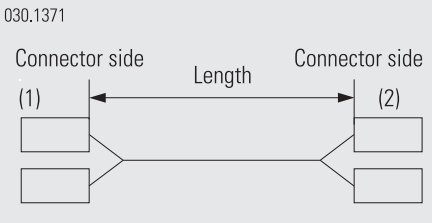
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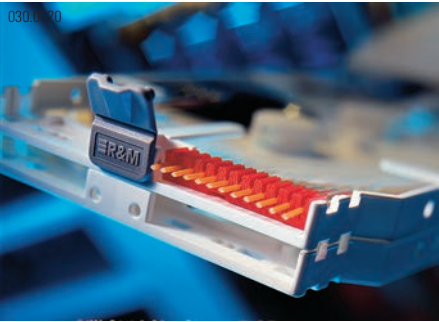


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Patch Cords

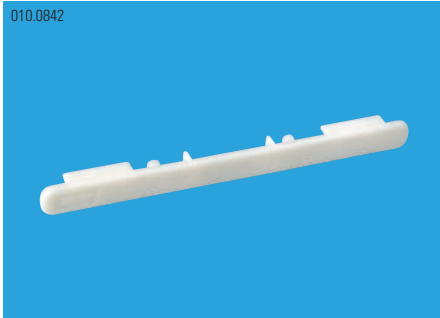
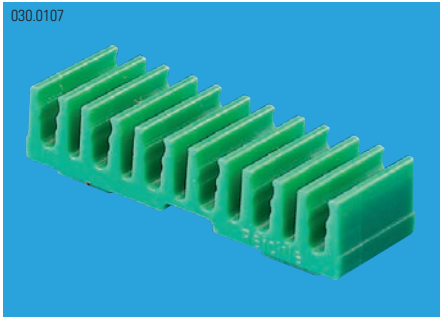
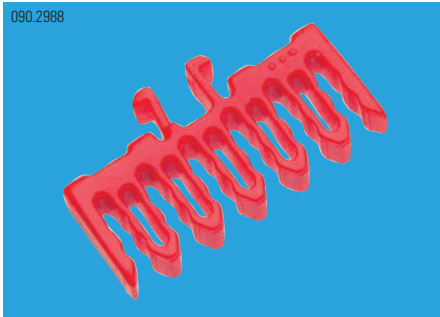
Connector Side 2 Connector Side 1	LC Duplex						SC Duplex					
	Length (Meter)	OM3	OM4	OS2 PC Grade d	OS2 PC Grade c	OS2 APC Grade c	OM3	OM4	OS2 PC Grade d	OS2 PC Grade c	OS2 APC Grade c	
	1	323063	802250	806495	800060	802329	323059	802766	808716	800378	803403	
	2	323064	802251	317465	308903	308916	323060	802767	317473	308913	800736	
	3	323065	802252	316491	308904	308917	323061	804042	317504	308914	800567	
	5	323066	802253	317478	308905	308918	323062	804692	317505	308915	322813	
	10	323111	805239	321801	313412	802354	800121	805017	321800	313410	803407	
	15	323108	805664	807018	802117	806491	801564	804693	323304	318590	803412	
	20	323109	807017	807019	802692	802993	801725	805018	800762	801809	803414	
	1						323043	802541	802687	313027	322078	
	2						323044	802544	317501	303343	800955	
	3						800835	802545	316490	303344	323200	
	5						323046	802546	317502	303346	323201	
	10						800460	803984	320880	313414	807698	
	15						801968	806061	323329	318589	806047	
	20						802812	803985	808532	800067		



Ordering Information	Description	MOQ	Part Number
	<b>Splice Holder R30/R40, splice protection ANT</b> Suitable for splice trays radius 30/35/40 mm. Max. capacity: 12 ANT splice protections. Color: black. Material: plastic (PA66). Dimensions: 40x5x35 mm (WxHxD). Supplied: – Splice holder – M3 fastening screw plus plastic screw	10	R30255
	<b>Splice Holder R30/R40, 6x shrink splice protection</b> Suitable for splice trays radius 30/35/40 mm. Max. capacity: 6 heat shrink splice protection. Color: black. Material: plastic (POM). Dimensions: 27x5x37 mm (WxHxD). Supplied: – Splice holder – M3 fastening screw plus plastic screw	10	R30039-06
 Applicable for heat shrinks with a diameter from 2.4 mm up to 2.6 mm.			
	<b>Splice Holder R30/R40, 12x shrink splice protection</b> Suitable for splice trays radius 30/35/40 mm. Max. capacity: 12 (2x6) heat shrink splice protection. Color: black. Material: plastic (POM). Dimensions: 34x6.2x32 mm (WxHxD). Supplied: – Splice holder – M3 fastening screw plus plastic screw	1	R320246
 Applicable for heat shrinks with a diameter from 2.4 mm up to 2.6 mm.			

Ordering Information	Description	MOQ	Part Number
	<b>Splice Holder Kit, heat shrink 65</b> Suitable for splice trays radius 30/35/40 mm. Max. capacity: per splice holder 6 heat shrink splice protections. Color: black. Material: plastic (POM). Dimensions: 27x5x37 mm (WxHxD). Supplied: – 2 splice holders – 12 heat shrink splice protections 60 mm – Plastic screw	1	R319219
 Applicable for heat shrinks with a diameter from 2.4 mm up to 2.6 mm.			
	<b>Splice Holder R30/R40, splice protection 3M Fiberlok™</b> Capacity of max. 6 3M Fiberlok™ splice protections. Suitable for splice trays radius 30/35/40 mm. Material: plastic (PA66). Color: black. Dimensions: 44x5x37 mm (WxHxD). Supplied: – Splice holder – M3 fastening screw plus plastic screw	10	R30042
	<b>Splice Protection ANT</b> Crimp splice protection type (ANT) for single fibers. Material: sheet plate parts, inside coated with permanently elastic material. Dimensions: 1.2x3.2x30 mm (WxHxD).	15	R30086
	<b>Heat Shrink Splice Protection</b> Shrink tube (Ø 3 mm) with metal insert. <b>60 mm</b> <b>45 mm</b> <b>35 mm</b>	12 50 10	R30087 R319212 R30087-35

Ordering Information	Description	MOQ	Part Number
<div>030.0099</div> 	<b>Splice Connector 3M Fiberlok™</b> Mechanical FO splice connector for 250 to 900 µm. Color: black. Material: plastic. Dimensions: 3.8x8.4x28.1 mm (WxHxD).	6	R30089
<div>010.1952</div> 	<b>Mounting Plate 3M Fiberlok™</b> Mounting tool for use with FO splice connectors 3M Fiberlok™.	1	R304873
<div>030.0101</div> 	<b>Film Hinge Splice Tray R30/R40,</b> For fastening stacked splice trays. Suitable for splice trays radius 30/40 mm. Color: blue. Material: plastic (PA66). Dimensions: 12x5.5x13 mm (WxHxD). <b>blue</b>	10	R30083-BL
<div>030.0058</div> 	<b>Insert Hinge Splice Tray R30,</b> For fastening the splice tray covers. Suitable for splice trays radius 30 mm. Material: plastic (PP). Dimensions: 15x5x18 mm (WxHxD). <b>gray</b> <b>red</b>	10 10	R30005-GU R30005-RT
<div>030.0102</div> 	<b>Module Fixing Strap Splice Tray R30</b> To tie a maximum of 12 stacked splice trays together. For fast and easy access to the splice trays. For use with splice trays radius 30 mm. Color: white. Material: plastic. Dimensions: 8x5x100 mm (WxHxD).	10	R30247

Ordering Information	Description	MOQ	Part Number
<div>010.0842</div> 	<b>Labeling Strips Splice Tray R30/R40</b> For labeling the individual splice trays. For use with the splice trays radius 30/40 mm. Color: white. Material: plastic. Dimensions: 75x7x5 mm (WxHxD).	10	R30334
<div>030.0107</div> 	<b>Strain Relief 6 Fibers Ø 1.9-2.1 mm, green</b> For the strain relief of 6 FO individual optical fibers of Ø 1.9 to 2.1 mm. To snap onto splice trays radius 30/40 mm. Color: green. Material: plastic (PC). Dimensions: 25x8x7.5 mm (WxHxD).	10	R30204
<div>090.2988</div> 	<b>Strain Relief 12 Fibers Ø 0.9 mm, red</b> For the strain relief of 2x6 fibers of Ø 0.9 mm. To snap onto splice trays radius 35 mm. Color: red. Material: plastic (PC). Dimensions: 12x6.4x2.5 mm (WxHxD).	10	R320141
<div>030.0104.1</div> 	<b>Strain Relief 24 Fibers Ø 0.9-1.1 mm, red</b> For the strain relief of 24 FO individual optical fibers of Ø 0.9 to 1.1 mm. To snap onto splice tray radius 30/40 mm. Color: red. Material: plastic (PC). Dimensions: 33x6x5.4 mm (WxHxD).	10	R308456
<div>030.0109</div> 	<b>Insert Tool</b> For inserting the fibers into the strain-relief bridge. Color: gray. Material: plastic (ABS).	10	R30084



Outlets  
Global Outlets



- Features**
- Suitable for flush-mounted (FM) and duct-mounted (DM) installations, surface-mounted installations on walls and in ducts
  - Plastic halogen-free in acc. with DIN/VDE 0472/815

Ordering Information	Description	MOQ	Part Number
	<p><b>FM Global Outlet 88x88,</b></p> <p>Suitable for flush-mounted (FM) and duct-mounted (DM) installations. For use with cover frames and duct covers of Ø 70 mm in diameter or 70x70 mm cutouts. Suitable for backboxes and floorbox module holders of Ø 60 mm mounting tracks. Recommended depth for backboxes and floorboxes min. 70 mm.</p> <p>Plastic: PC + ABS, halogen-free.</p> <p>Supplied:</p> <ul style="list-style-type: none"><li>– Cover frame 88x88 mm</li><li>– Faceplate 60x60 mm with SC-Duplex cutout</li><li>– M3x12 screws</li><li>– Blind cover (when used as a 1-port outlet)</li><li>– Mounting plate, steel</li><li>– Label strips, blank</li></ul> <p><b>2xSC-Duplex, pure white</b></p>	10	R316072
	<p><b>WM Global Outlet 80x80,</b></p> <p>Suitable for surface-mounted installations on walls and in ducts. Housing plus wallplate measures 80x80x67.5 mm. Cable entry at the side or the back. For use with cover frames and duct covers of Ø 60 mm in diameter or 56x56 mm cutouts.</p> <p>Plastic: PC + ABS, halogen-free.</p> <p>Supplied:</p> <ul style="list-style-type: none"><li>– Cover frame 80x80 mm</li><li>– Faceplate 60x60 mm with SC-Duplex cutout</li><li>– M3x12 screws</li><li>– Blind cover (when used as a 1-port outlet)</li><li>– Mounting plate, steel</li><li>– Label strips, blank</li></ul> <p><b>2xSC-Duplex, pure white</b></p>	10	R316073
	<p><b>DM Global Outlet 80x86,</b></p> <p>Suitable for duct-mounted (DM) installations (metal and plastic). For use with duct covers of = 80 mm. Suitable for backboxes and floorbox module holders of Ø 60 mm in diameter or 56x56 mm cutouts. Recommended depth for backboxes and floorboxes min. 70 mm.</p> <p>Plastic: PC + ABS, halogen-free.</p> <p>Supplied:</p> <ul style="list-style-type: none"><li>– Cover frame 80x86 mm</li><li>– Faceplate 60x60 mm with SC-Duplex cutout</li><li>– M3x12 screws</li><li>– Blind cover (when used as a 1-port outlet)</li><li>– Mounting plate, steel</li><li>– Label strips, blank</li></ul> <p><b>2xSC-Duplex, pure white</b></p>	10	R316074

Outlets  
DM / WM Outlets



- Features**
- FO outlet for the termination of 4 or 8 fibers
  - Snap-on holders for different FO adapters
  - Ideal for pre-terminated and field-terminated cables
  - In certain conditions the Duct Outlet is also suitable for flush-mounted installation

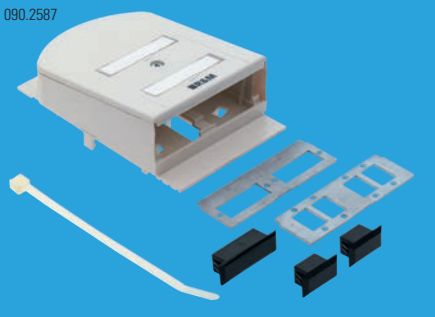
Ordering Information	Description	MOQ	Part Number
	<p><b>DM Outlet, 2xSC-Duplex / 4xSC, 4xLC-Duplex</b></p> <p>Color: pure white.</p> <p>Supplied:</p> <ul style="list-style-type: none"><li>– Outlet</li><li>– Front panels</li><li>– Blind cover</li><li>– Cable tie</li><li>– Installation instructions</li></ul> <p><b>/ 4xST</b></p>	1	R315798
	<p><b>WM Outlet, 2xSC-Duplex / 4xSC, 4xLC-Duplex</b></p> <p>Color: pure white.</p> <p>Supplied:</p> <ul style="list-style-type: none"><li>– Outlet</li><li>– Front panels</li><li>– Blind cover</li><li>– Cable tie</li><li>– Installation instructions</li></ul> <p><b>/ 4xST</b></p>	1	R315799

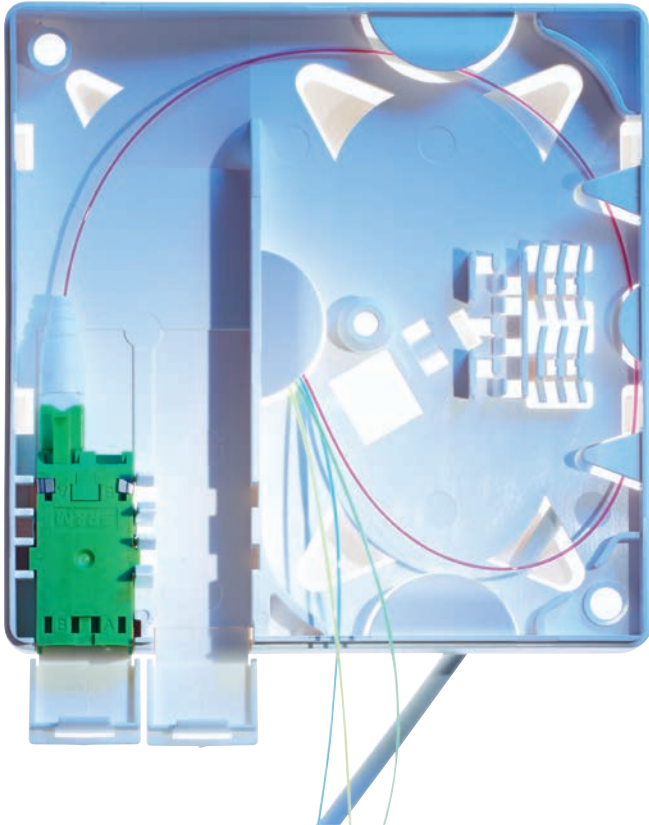
Outlets  
Floorbox Outlets



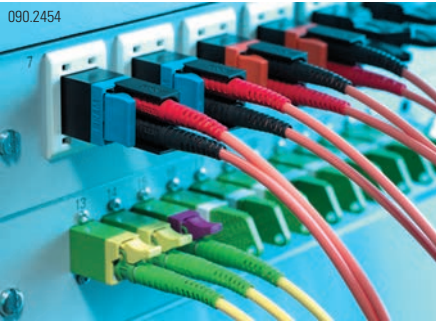
- Features**
- GOF outlet for the termination of 4 or 8 fibers
  - Snap-on holders for different FO adapters
  - Integral cable management in the Floorbox Outlet
  - Ideal for pre-terminated as well as field-terminated cables

**i** Suitable for various other subfloor systems (Ackermann, Niedax/ Elektraplan and OBO/Bettermann), fiber optics and copper RJ45 combination possible

Ordering Information	Description	MOQ	Part Number
	<b>FB Outlet, 2xSC-Duplex / 4xSC, 4xLC-Duplex</b> Angled 80° outlet for optimum cable and connector relief. Color: oyster white. Supplied: – Outlet – Front panel – Blind cover – Cable tie – Installation instructions <b>/ 4xST</b>	1	R315801



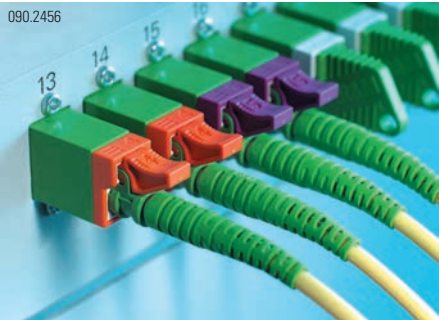
Security System  
Security Level 1



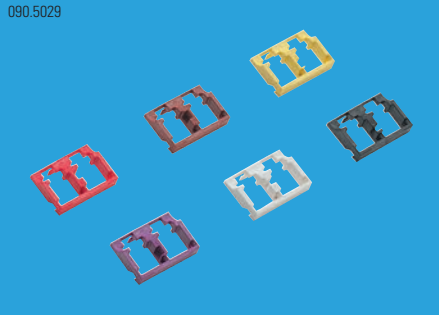
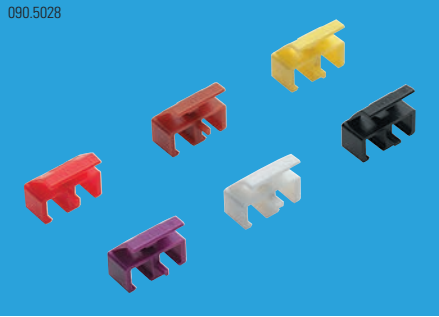
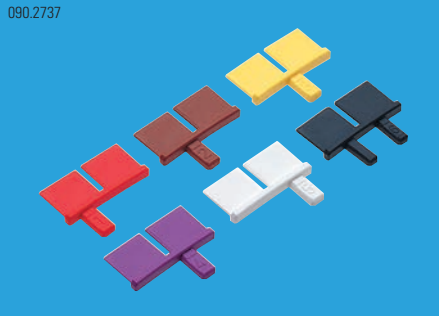

**Security level 1 (visual color coding)**  
The visual color coding supports correct connecting of the respective copper and fiberoptic cables. The color coding clips are easily clipped to connection cables and ports (outlets, patch panels). When applications are reassigned within the network, the color coding elements are simply moved or replaced, no tools needed.

Ordering Information	Description	MOQ	Part Number
	<b>Snap-in Coding Clip,</b> Color coding clip for snap-in adapters and the multimedia outlet. <b>anthracite</b> <b>blue</b> <b>brown</b> <b>green</b> <b>violet</b> <b>white</b> <b>yellow</b>	10 10 10 10 10 10 10	R302151 R302152 R302153 R302154 R302156 R302157 R302158
	<b>Frame LC-Duplex Adapter,</b> Color frame for LC-Duplex adapter. <b>violet</b> <b>blue</b> <b>green</b> <b>red</b> <b>black</b> <b>orange</b> <b>beige</b> <b>yellow</b> <b>turquoise</b>	12 12 12 12 12 12 12 12 12	R507806 R507809 R507803 R507808 R507804 R507802 R507810 R507807 R507805
	<b>Color Clip LC Connector,</b> Color clip for LC connector. <b>violet</b> <b>blue</b> <b>green</b> <b>orange</b> <b>beige</b> <b>turquoise</b>	100 100 100 100 100 100	R802930 R802926 R802925 R802928 R802929 R802927
	<b>Color Clip LC-Duplex Connector,</b> Color clip for LC-Duplex connector. <b>violet</b> <b>blue</b> <b>green</b> <b>red</b> <b>black</b> <b>orange</b> <b>beige</b> <b>yellow</b> <b>turquoise</b>	12 12 12 12 12 12 12 12 12	R508101 R508104 R508098 R508103 R508099 R508097 R508105 R508102 R508100

Ordering Information	Description	MOQ	Part Number
	<b>Coding Frame SC-RJ Adapter</b> Color coding frame for SC-RJ Adapter. Fitting R&M Smartholes.	12	R310216
	<b>Color Clip SC-RJ Connector,</b> Color coding for SC-RJ patch cord, Fiber Guard, coding frame and Patch Guard.		
	<b>green</b>	12	R310141
	<b>yellow</b>	12	R310142
	<b>blue</b>	12	R310143
	<b>red</b>	12	R310144
	<b>anthracite</b>	12	R310145
	<b>turquoise</b>	12	R310146
	<b>violet</b>	12	R310147
	<b>orange</b>	12	R310148
	<b>Splash Cap Universal IP54,</b> Offering dust protection and color coding to data outlets and patch panels. The cap with its rubber seal provide protection class IP54. Supplied: – Splash cap universal – Rubber seal – Installation manual		
	<b>white</b>	10	R320410
	<b>blue</b>	10	R320411
	<b>red</b>	10	R320412
	<b>yellow</b>	10	R320414
	<b>green</b>	10	R320415
	<b>Splash Sleeve Universal IP54,</b> Elastic, transparent rubber sleeve suitable for RJ45, FM45 IP20, E-2000™, E-2000™-Compact, LC-Duplex, SC, SC-RJ and SMI patch cords. Together the Splash sleeve universal and the Splash cap universal offer protection class IP54.	10	R320385
	<b>transparent</b>		
	<b>Color Coding IP67, type 06, plastic</b> Color coding clips suitable for RJ45 IP67 connectors, SC-RJ IP67 connectors and adapter frames. Supplied: – 50 coding clips, white – 50 coding clips, blue – 50 coding clips, orange – 50 coding clips, yellow		
		1	R310262



**Security level 2 (mechanical-visual plug-in protection)**  
The mechanical-visual coding elements provide additional security on a mechanical level. They simply and effectively prevent cables from being plugged into the wrong ports.

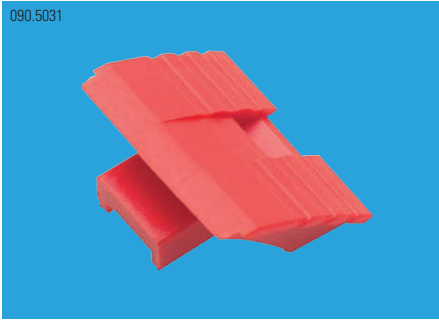
Ordering Information	Description	MOQ	Part Number
	<b>Frame LC-Duplex Adapter,</b> Color frame for LC-Duplex adapter with mechanical coding.		
	<b>code 1, red</b> <b>code 2, brown</b> <b>code 3, yellow</b> <b>code 4, violet</b> <b>code 5, white</b> <b>code 6, black</b>	12 12 12 12 12 12	R508108 R508109 R508110 R508111 R508112 R508113
	<b>Color Clip LC-Duplex Connector,</b> Color clip for LC-Duplex connector with mechanical coding.		
	<b>code 1, red</b>	12	R508091
	<b>code 2, brown</b>	12	R508092
	<b>code 3, yellow</b>	12	R508093
	<b>code 4, violet</b>	12	R508094
	<b>code 5, white</b>	12	R508095
	<b>code 6, black</b>	12	R508096
	<b>Mechanical Color Pin SC-RJ Adapter,</b> Color coding for SC-RJ adapter. Pin mechanically coded. Can be combined with security system levels 1 and 3.		
	<b>code 1, red</b>	12	R318298
	<b>code 2, brown</b>	12	R318302
	<b>code 3, yellow</b>	12	R318305
	<b>code 4, violet</b>	12	R318309
	<b>code 5, white</b>	12	R318310
	<b>code 6, black</b>	12	R318312
	<b>Mechanical Color Clip SC-RJ Connector,</b> Color coding for SC-RJ connector. Clip mechanically coded. Can be combined with security system levels 1 and 3.		
	<b>code 1, red</b>	12	R318280
	<b>code 2, brown</b>	12	R318283
	<b>code 3, yellow</b>	12	R318294
	<b>code 4, violet</b>	12	R318295
	<b>code 5, white</b>	12	R318296
	<b>code 6, black</b>	12	R318297





**Security level 3 (mechanical plug-out / plug-in protection)**  
These products introduce future-proof security to network connections. Only trained and authorized staff can release copper or fiber-optic connections. Copper and FO connectors can also be lock-protected for authorized plug-in only.

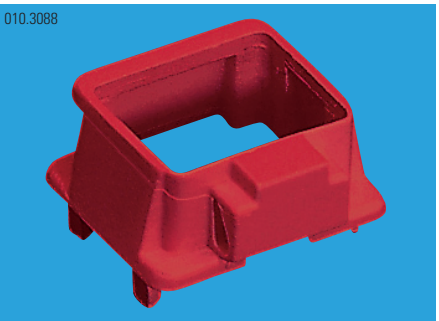
Ordering Information	Description	MOQ	Part Number
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**Plug Guard LC-Duplex Connector**  
Plug Guard for LC-Duplex connector.  
  
1R508116



**Key Plug Guard LC-Duplex Connector**  
- Key Plug Guard for LC-Duplex connector.  
  
1R508117



**Fiber Guard SC-RJ Adapter**  
SC-RJ connection protection for outlets and patch panels.  
Fitting R&M Smartholes.  
Supplied:  
– Fiber Guard  
– 1 key per packing unit  
  
12R310218



**Adapter Guard SC-RJ**  
SC-RJ plug-in protection for outlets and patch panels. Fits Fiber Guard.  
  
12R313816

Ordering Information	Description	MOQ	Part Number
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**Key Plug Guard / Fiber Guard**  
Key and key-ring to Plug Guard and Fiber Guard.  
  
1R304828

# SECURITY

Maximum operational reliability.

RELY ON SMART CABLE RACEWAYS

Operators of broadband networks and data centers prefer taking the fast, efficient route. That is also true of raceways in central installations and distribution sites. The installation and re-equipping of fiber optic raceway systems have to proceed as smoothly as possible to save time for productive tasks. You can now switch to the passing lane when it comes to cable raceways. With the Fiber Optic Raceway System from R&M, you take the lead in managing fiber optic links while adding benefits for your own operation. The R&M Raceway System has a smart design: safe, fast, efficient, free of stress, modular, customized and easy to handle.

get more

More safety

- Sturdy component construction
- All-round protection for optical fibers
- Guaranteed bending radius of 30 mm
- Higher network availability
- Material with minimal impact on environment

More efficiency

- Smart, lean range
- Flexible, modular system
- Snap-in installation
- Seamless expansion and retrofitting
- Compatible with non R&M systems

More success

- Reductions of up to 50 % in installation and maintenance costs
- Protects investments in existing cable raceways

Right on track

When you opt for the R&M Fiber Optic Raceway System, your fiber optic cables have a raceway all to themselves. Optical fibers and patch cords are routed to the intended end point the quickest way possible. The raceway keeps up to 6000 fibers right on track.

Leeway in planning

You can place curves, tunnels, junctions or exits anywhere you wish. You enjoy greater leeway in planning thanks to the system’s modular approach, smart range and six cross sections from 30 x 50 to 300 x 100.

Quick to install

With the snap-in connections, installation requires no additional special tools, so it is quick and inexpensive. The R&M Raceway System is a great way for you to pick up your pace. You save time while reducing your investment and maintenance costs.

Protected in every respect

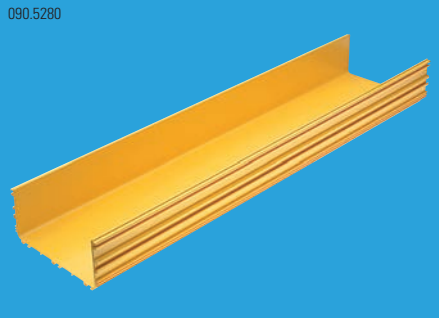
The fibers are reliably laid in the sturdy PC/ABS plastic raceways. The R&M Raceway System with 30 mm bending radius offers every manner of protection: it is resistant to impact and breakage, flame retardant, and resistant to heat, frost and light.

Always in pole position

The R&M Raceway System is always in pole position no matter where optical fibers are guided and distributed, whether in data center or central office, at hub or head station. Integrating legacy or other wire guidance systems is a breeze.




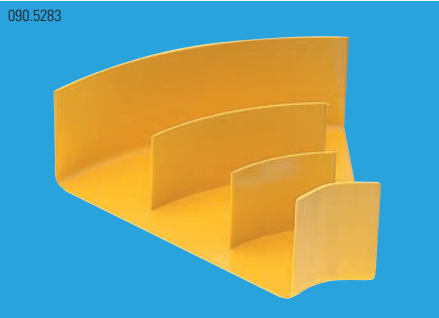
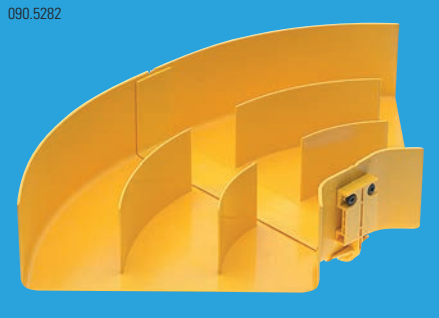
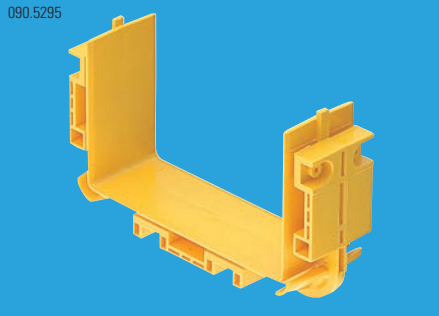

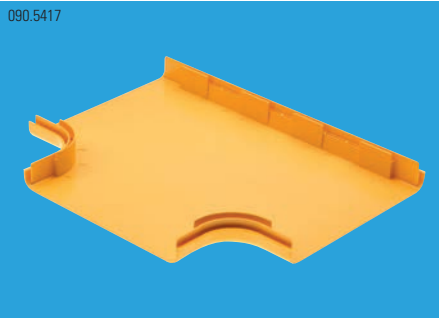
Cable Routing Raceway

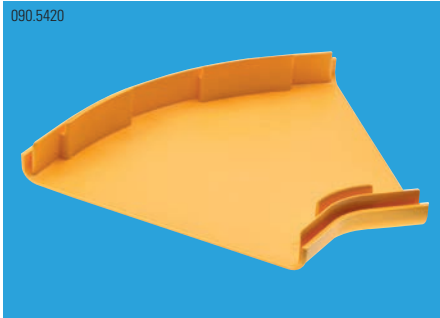
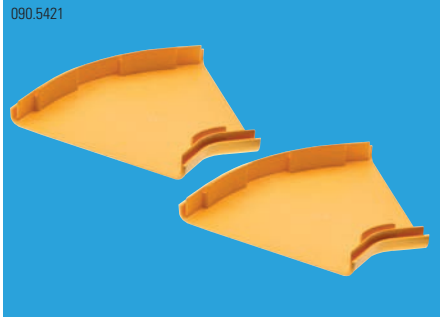
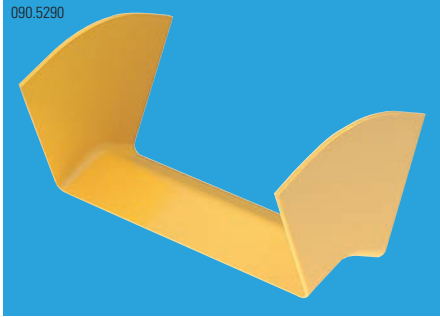
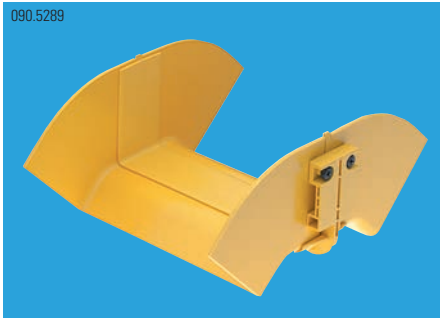
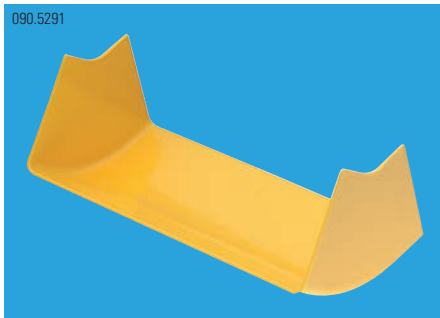


Features

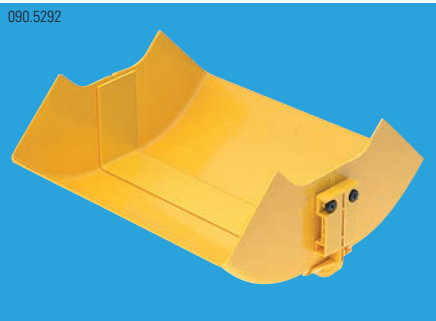
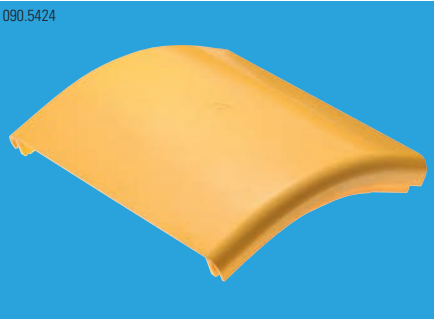
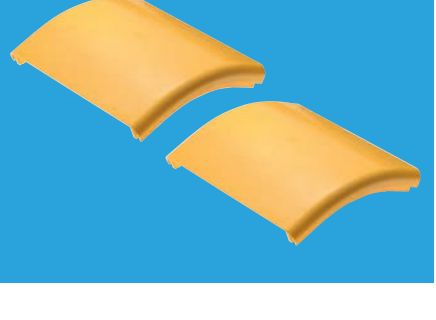

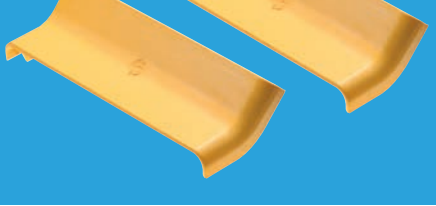
- Simple retrofit of covers
- Snap-on joints link the individual components together
- Flame-retardant material: plastic PC/ABS
- Standard color yellow

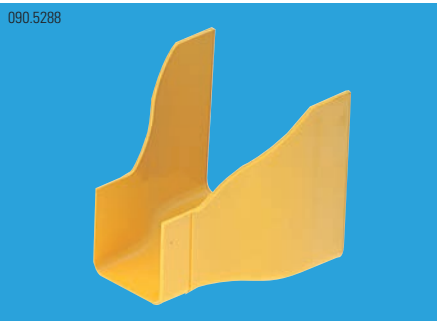
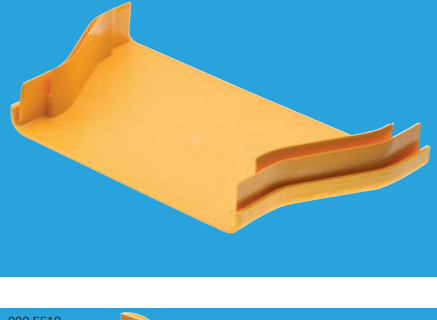
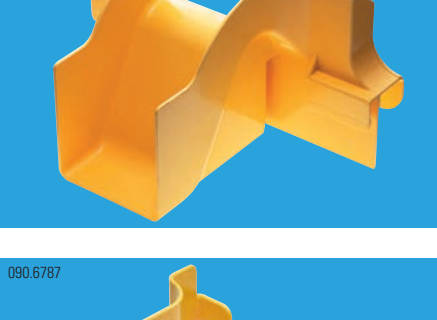


Ordering Information	Description	MOQ	Part Number
	<b>Main Duct Raceway</b> The main duct consists of one single blow-molded piece. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>030x050, 1 m</b>	1	R509411
	<b>050x050, 1 m</b>	1	R509412
	<b>100x100, 1 m</b>	1	R509413
	<b>160x100, 1 m</b>	1	R509414
	<b>220x100, 1 m</b>	1	R509415
	<b>300x100, 1 m</b>	1	R509416
	<b>100x100, 2 m</b>	1	R805808
	<b>160x100, 2 m</b>	1	R805809
	<b>220x100, 2 m</b>	1	R805810
	<b>300x100, 2 m</b>	1	R805811
	<b>Main Duct Cover Raceway</b> The cover can be retrofitted for additional protection of the optical cable. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>030x050, 1 m</b>	1	R509510
	<b>050x050, 1 m</b>	1	R509511
	<b>100x100, 1 m</b>	1	R509512
	<b>160x100, 1 m</b>	1	R509513
	<b>220x100, 1 m</b>	1	R509514
	<b>300x100, 1 m</b>	1	R509515
	 Length of 2 m on request.		
	<b>Cross Raceway</b> The cross is used to connect four main ducts or other components, linked with snap-on joints. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>100x100</b>	1	R509417
	<b>160x100</b>	1	R509418
	<b>220x100</b>	1	R509419
	<b>300x100</b>	1	R509420
	<b>T-Joint Raceway</b> The T-joint is used to connect three main ducts or other components, linked with snap-on joints. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>T-Joint Raceway 100x100</b>	1	R509424
	<b>160x100</b>	1	R509425
	<b>220x100</b>	1	R509426
	<b>300x100</b>	1	R509427

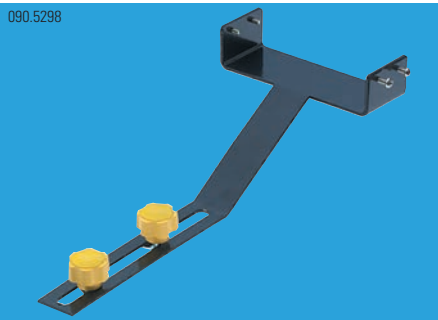
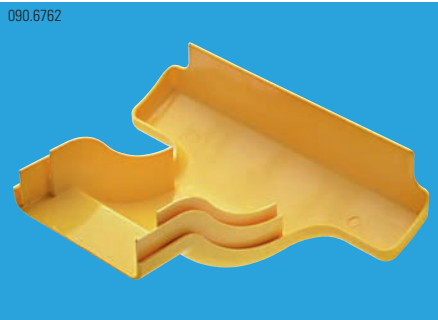

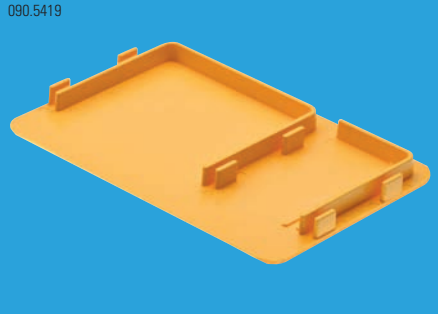
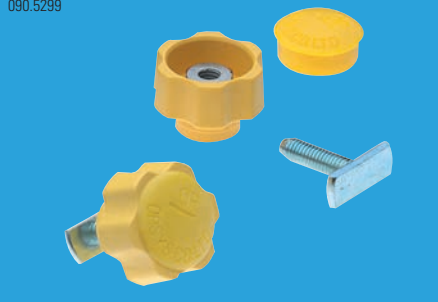
Ordering Information	Description	MOQ	Part Number
	<b>Elbow 45°-H Raceway</b> Used for the horizontal 45° redirecting of cables. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>100x100</b>	1	R509431
	<b>160x100</b>	1	R509432
	<b>220x100</b>	1	R509433
	<b>300x100</b>	1	R510309
	<b>Elbow 90°-H Raceway</b> Used for the horizontal 90° (2 x 45°) redirecting of cables. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant). Supplied: – 2 elbows 45°-H Raceway – Snap-on joint Raceway		
	<b>100x100</b>	1	R509435
	<b>160x100</b>	1	R509436
	<b>220x100</b>	1	R509437
	<b>300x100</b>	1	R509438
	<b>Snap-on Joint Raceway</b> For a solid and smooth linking of main ducts and other components. One snap-on joint is required on each end for the horizontal and vertical elbows and also for the cross and T-joints. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>050x050</b>	1	R509469
	<b>100x100</b>	1	R509470
	<b>160x100</b>	1	R509471
	<b>220x100</b>	1	R509472
	<b>300x100</b>	1	R510341
	<b>Cross Cover Raceway</b> The cover can be retrofitted for additional protection of the optical cable. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>100x100</b>	1	R510306
	<b>160x100</b>	1	R509517
	<b>220x100</b>	1	R509518
	<b>300x100</b>	1	R509519
	<b>T-Joint Cover Raceway</b> The cover can be retrofitted for additional protection of the optical cable. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>100x100</b>	1	R509520
	<b>160x100</b>	1	R510307
	<b>220x100</b>	1	R510308
	<b>300x100</b>	1	R509523

Ordering Information	Description	MOQ	Part Number
	<b>Elbow 45°-H Cover Raceway</b> The cover can be retrofitted for additional protection of the optical cable. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>100x100</b>	1	R510310
	<b>160x100</b>	1	R510311
	<b>220x100</b>	1	R510312
	<b>300x100</b>	1	R510313
	<b>Elbow 90°-H Cover Raceway</b> The cover (2 x 45°) can be retrofitted for additional protection of the optical cable. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>100x100</b>	1	R510314
	<b>160x100</b>	1	R509529
	<b>220x100</b>	1	R510315
	<b>300x100</b>	1	R510316
	<b>Elbow 45°-D Raceway</b> Used for the vertical 45° downward redirecting of cables. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>050x050</b>	1	R509439
	<b>100x100</b>	1	R509440
	<b>160x100</b>	1	R509441
	<b>220x100</b>	1	R509442
	<b>300x100</b>	1	R509443
	<b>Elbow 90°-D Raceway</b> Used for the vertical 90° (2 x 45°) downward redirecting of cables. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant). Supplied: – 2 elbows 45°-D Raceway – Snap-on joint Raceway		
	<b>050x050</b>	1	R509444
	<b>100x100</b>	1	R509445
	<b>160x100</b>	1	R509446
	<b>220x100</b>	1	R509447
	<b>300x100</b>	1	R509448
	<b>Elbow 45°-U Raceway</b> Used for the vertical 45° upward redirecting of cables. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>050x050</b>	1	R509449
	<b>100x100</b>	1	R509450
	<b>160x100</b>	1	R509451
	<b>220x100</b>	1	R509452
	<b>300x100</b>	1	R509453



Ordering Information	Description	MOQ	Part Number
<div>090.5292</div> 	<b>Elbow 90°-U Raceway</b> Used for the vertical 90° (2 x 45°) upward redirecting of cables. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant). Supplied: – 2 elbows 45°-U Raceway – Snap-on joint Raceway		
	<b>050x050</b>	1	R509454
	<b>100x100</b>	1	R509455
	<b>160x100</b>	1	R509456
	<b>220x100</b>	1	R509457
	<b>300x100</b>	1	R509458
<div>090.5424</div> 	<b>Elbow 45°-D Cover Raceway</b> The cover can be retrofitted for additional protection of the optical cable. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>050x050</b>	1	R510317
	<b>100x100</b>	1	R510318
	<b>160x100</b>	1	R510319
	<b>220x100</b>	1	R510320
	<b>300x100</b>	1	R510321
<div>090.5425</div> 	<b>Elbow 90°-D Cover Raceway</b> The cover (2 x 45°) can be retrofitted for additional protection of the optical cable. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>050x050</b>	1	R510322
	<b>100x100</b>	1	R509538
	<b>160x100</b>	1	R510323
	<b>220x100</b>	1	R510324
	<b>300x100</b>	1	R510325
<div>090.5422</div> 	<b>Elbow 45°-U Cover Raceway</b> The cover can be retrofitted for additional protection of the optical cable. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>050x050</b>	1	R510326
	<b>100x100</b>	1	R509543
	<b>160x100</b>	1	R510327
	<b>220x100</b>	1	R509545
	<b>300x100</b>	1	R509546
<div>090.5423</div> 	<b>Elbow 90°-U Cover Raceway</b> The cover (2 x 45°) can be retrofitted for additional protection of the optical cable. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>050x050</b>	1	R510328
	<b>100x100</b>	1	R510329
	<b>160x100</b>	1	R510330
	<b>220x100</b>	1	R509550
	<b>300x100</b>	1	R510331

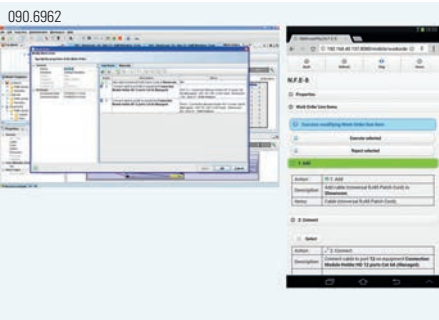
Ordering Information	Description	MOQ	Part Number
<div>090.5288</div> 	<b>Reducer Raceway</b> Used to reduce main ducts and other components to the next smaller size with snap-on joints. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>100x100/050x050</b>	1	R509465
	<b>160x100/100x100</b>	1	R509466
	<b>220x100/160x100</b>	1	R509467
	<b>300x100/220x100</b>	1	R509468
<div>090.5418</div> 	<b>Reducer Cover Raceway</b> The cover can be retrofitted for additional protection of the optical cable. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>100x100/050x050</b>	1	R510333
	<b>160x100/100x100</b>	1	R510334
	<b>220x100/160x100</b>	1	R509555
	<b>300x100/220x100</b>	1	R509556
<div>090.5518</div> 	<b>Drop Outlet Raceway</b> The drop outlet can be positioned anywhere along the side of the main duct, no snap-on joints needed, and can be connected with various components such as reducers, elbows and trumpets. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>100x100</b>	1	R509459
<div>090.6787</div> 	<b>Drop Outlet Vertical Raceway</b> The drop outlet can be positioned anywhere along the side of the main duct, no snap-on joints needed, and can be connected with various components such as reducers, joints and trumpets. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>100x100</b>	1	R807764
<div>090.5294</div> 	<b>Trumpet Outlet Raceway</b> The outlet trumpet is the final protective component, taking the fiber-optic cable to the protected area at the minimum radius (30 mm). Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).		
	<b>050x050</b>	1	R509460
	<b>100x100</b>	1	R509461
	<b>160x100</b>	1	R509462
	<b>220x100</b>	1	R509463
	<b>300x100</b>	1	R509464

Ordering Information	Description	MOQ	Part Number
 <p>090.5298</p>	<p><b>Mounting Kit Raceway</b> For installing the outlet trumped. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant). Supplied: – Mounting bracket – 2 T-bolts – 4 fastening screws</p>		
	<b>50x100</b>	1	R509478
	<b>100x100</b>	1	R509479
 <p>090.6762</p>	<p><b>Drop Outlet Cover Raceway</b> The cover can be retrofitted for additional protection of the optical cable. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).</p>		
	<b>100x100</b>	1	R510332
 <p>090.6794</p>	<p><b>Drop Outlet Vertical Cover Raceway</b> The cover can be retrofitted for additional protection of the optical cable. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).</p>		
	<b>100x100</b>	1	R807765
 <p>090.5419</p>	<p><b>End Cap Raceway</b> The end cap is used to cap off the open ends of main ducts or other components, no snap-joints needed. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).</p>		
	<b>100x100</b>	1	R510335
	<b>160x100</b>	1	R509474
	<b>220x100</b>	1	R509475
	<b>300x100</b>	1	R509476
 <p>090.5299</p>	<p><b>T-Bolt Raceway</b> The T-nut slot is used to fasten the mounting kit and the T-bolts mounted on the side or bottom part of main ducts, for a fast and safe mounting of the entire Raceway system. Color: yellow. Material: plastic PC/ABS (halogen-free, flame-retardant).</p>		
	<b>M6/25x25</b>	1	R509480

inteliPhy





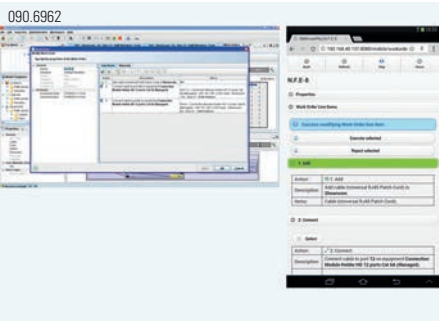


- Features**
- Administration of the cabling infrastructure
  - Template-based network modeling
  - Client-server based architecture
  - Browser-based graphic user interface
  - Suitable for installation on client server
  - Independent of operating system and data base system
  - Open architecture ensures easy integration with 3rd-party software

- i** System requirements:
- Server > 4 GB RAM, 500 GB hard disk
  - Operating systems Windows, Linux, Unix
  - Databases MySQL, MS SQL, Oracle, IBM DB2, PostgreSQL, HSQLDB
  - Client Windows, Mac OSX, Unix, Windows, iOS, Android

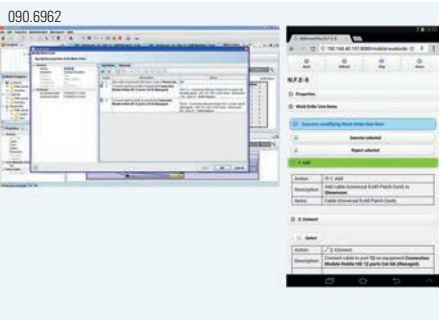
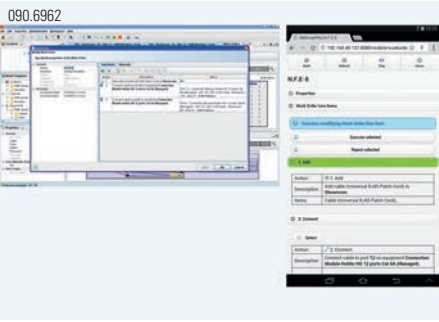
Ordering Information	Description	MOQ	Part Number
	<b>R&amp;MinteliPhy Manage In-House, 20 cabinets</b> License for the installation on client server. Allows the management of 20 network cabinets. Supplied: <ul style="list-style-type: none"><li>– License for the installation on client server</li><li>– Management of 20 network cabinets</li><li>– Max. 10 reports</li><li>– Max. 20 work orders</li><li>– Max. 2 resources</li><li>– Max. 12 user-defined attributes</li></ul>	1	R380047
	<b>R&amp;MinteliPhy Manage In-House, 500 monitored ports</b> License for the installation on client server. Allows the management of 500 ports with sensor bars. Supplied: <ul style="list-style-type: none"><li>– License for the installation on client server</li><li>– Management of 500 ports with sensor bars</li><li>– Max. 10 reports</li><li>– Max. 20 work orders</li><li>– Max. 2 resources</li><li>– Max. 12 user-defined attributes</li></ul>	1	R380048
	<b>R&amp;MinteliPhy Manage In-House, 10 cabinets, expansion</b> License for the installation on client server. Allows the management of 10 additional network cabinets. Supplied: <ul style="list-style-type: none"><li>– License for the installation on client server</li><li>– Expansion by 10 network cabinets</li><li>– Max. 10 reports</li><li>– Max. 20 work orders</li><li>– Max. 2 resources</li><li>– Max. 12 user-defined attributes</li></ul>	1	R380049

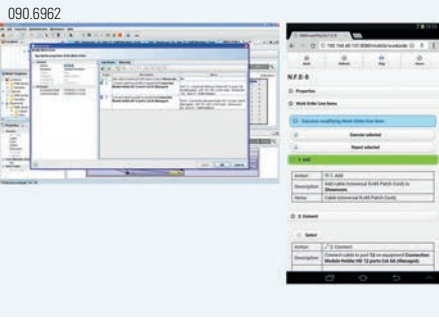
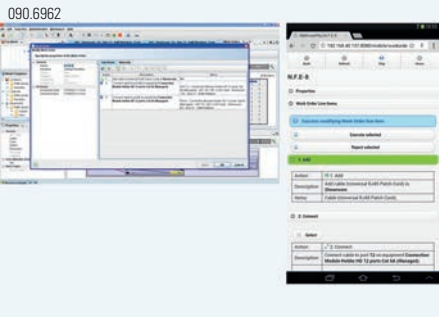

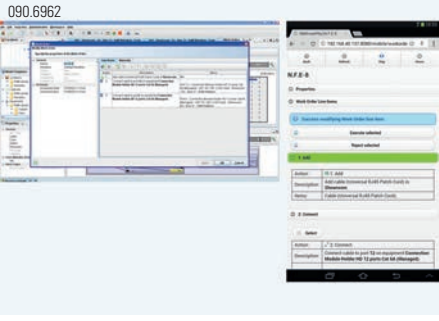
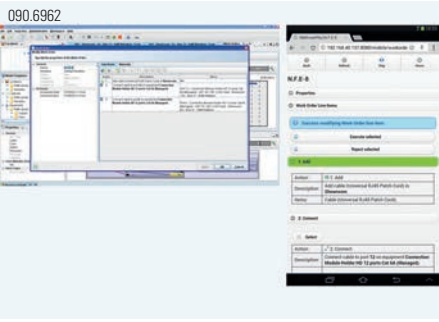
Ordering Information	Description	MOQ	Part Number
	<b>R&amp;MinteliPhy Manage In-House, feature upgrade per cabinet</b> License for the installation on client server. Removes the limitations on reports, work orders, resources and user-defined attributes.  <b>i</b> Minimum Order Quantity – Upgrade for 50 Cabinets.	50	R380050
	<b>R&amp;MinteliPhy Manage In-House, unlimited edition</b> License for the installation on client server. Allows the management of an unlimited number of network cabinets. Max. 10 simultaneous users. Supplied: <ul style="list-style-type: none"><li>– License for the installation on client server</li><li>– Unlimited number of network cabinets</li><li>– Max. 10 simultaneous users</li><li>– Max. 10 reports</li><li>– Max. 20 work orders</li><li>– Max. 2 resources</li><li>– Max. 12 user-defined attributes</li></ul>	1	R380051
	<b>R&amp;MinteliPhy Manage In-House, unlimited edition, one additional user</b> License for the installation on client server. Upgrade for one additional simultaneous user. Supplied: <ul style="list-style-type: none"><li>– License for the installation on client server</li><li>– One additional simultaneous user</li><li>– Max. 10 reports</li><li>– Max. 20 work orders</li><li>– Max. 2 resources</li><li>– Max. 12 user-defined attributes</li></ul>	1	R380052
	<b>R&amp;MinteliPhy Manage In-House, unlimited edition, feature upgrade</b> License for the installation on client server. Removes the limitations on reports, work orders, resources and user-defined attributes with the unlimited edition.	1	R380053

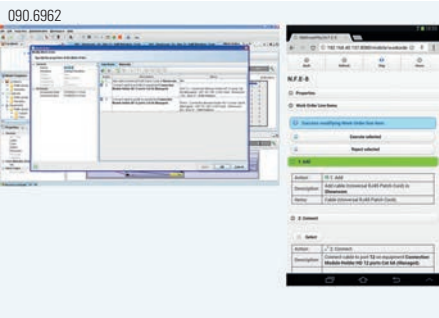
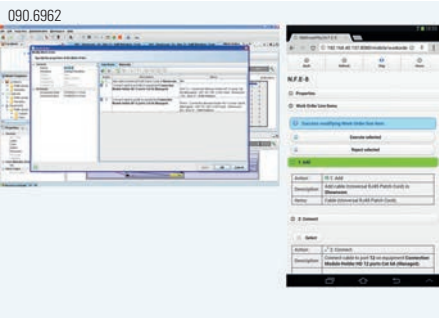
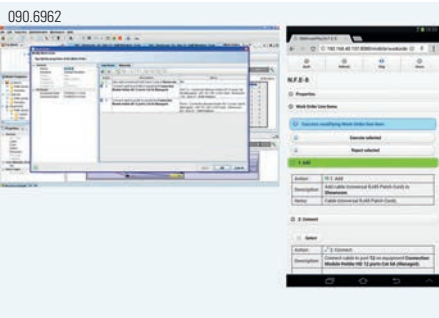


- Features**
- Administration of the cabling infrastructure
  - Template-based network modeling
  - Client-server based architecture
  - Browser-based graphic user interface
  - Cloud-based, thus no installation required on customer side
  - Open architecture ensures easy integration with 3rd-party software

 Client Windows, Mac OSX, Unix, Windows, iOS, Android

Ordering Information	Description	MOQ	Part Number
	<p><b>R&amp;MinteliPhy Manage SaaS, 20 cabinets, annual fee</b></p> <p>Annual fee includes support, software updates / upgrades and templates for cloud-based server. With a management capacity of 20 network cabinets.</p> <p>Supplied:</p> <ul style="list-style-type: none"><li>– Annual fee for cloud-based server</li><li>– Includes support, software updates / upgrades, templates</li><li>– Management of 20 network cabinets</li><li>– Max. 10 reports</li><li>– Max. 20 work orders</li><li>– Max. 2 resources</li><li>– Max. 12 user-defined attributes</li></ul>	1	R380038
	<p><b>R&amp;MinteliPhy Manage SaaS, 500 monitored ports, annual fee</b></p> <p>Annual fee includes support, software updates / upgrades and templates for cloud-based server. With a management capacity of 500 ports with sensor bars.</p> <p>Supplied:</p> <ul style="list-style-type: none"><li>– Annual fee for cloud-based server</li><li>– Includes support, software updates / upgrades, templates</li><li>– Management of 500 ports with sensor bars</li><li>– Max. 10 reports</li><li>– Max. 20 work orders</li><li>– Max. 2 resources</li><li>– Max. 12 user-defined attributes</li></ul>	1	R380039

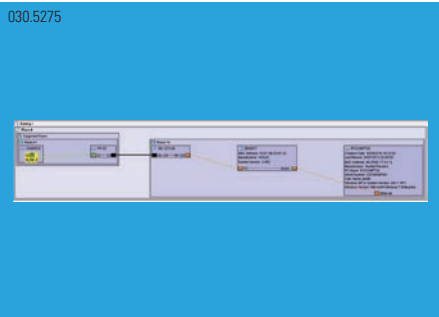
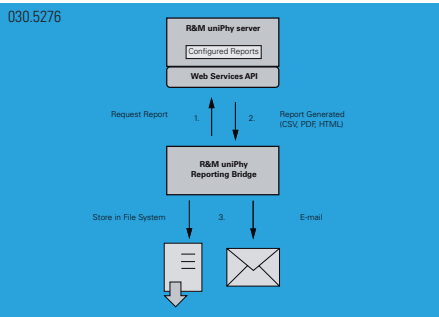
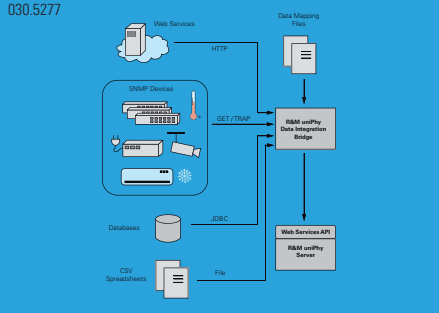
Ordering Information	Description	MOQ	Part Number
	<p><b>R&amp;MinteliPhy Manage SaaS, 10 cabinets, expansion, annual fee</b></p> <p>Annual fee includes support, software updates / upgrades and templates for cloud-based server. Allows the management of 10 additional network cabinets.</p> <p>Supplied:</p> <ul style="list-style-type: none"><li>– Annual fee for cloud-based server</li><li>– Includes support, software updates / upgrades, templates</li><li>– Expansion by 10 network cabinets</li><li>– Max. 10 reports</li><li>– Max. 20 work orders</li><li>– Max. 2 resources</li><li>– Max. 12 user-defined attributes</li></ul>	1	R380040
	<p><b>R&amp;MinteliPhy Manage SaaS, feature upgrade per cabinet, annual fee</b></p> <p>Annual fee includes support, software updates / upgrades and templates for cloud-based server. Removes the limitations on reports, work orders, resources and user-based attributes.</p> <p> Minimum Order Quantity – Upgrade for 50 Cabinets.</p>	50	R380042
	<p><b>R&amp;MinteliPhy Manage SaaS, unlimited, annual fee</b></p> <p>Annual fee includes support, software updates / upgrades and templates for cloud-based server. Allows the management of an unlimited number of network cabinets. Max. 10 simultaneous users.</p> <p>Supplied:</p> <ul style="list-style-type: none"><li>– Annual fee for cloud-based server</li><li>– Includes support, software updates / upgrades, templates</li><li>– Unlimited number of network cabinets</li><li>– Maximum of 10 simultaneous users</li><li>– Max. 10 reports</li><li>– Max. 20 work orders</li><li>– Max. 2 resources</li><li>– Max. 12 user-defined attributes</li></ul>	1	R380043
	<p><b>R&amp;MinteliPhy Manage SaaS, unlimited edition, one additional user, annual fee</b></p> <p>Annual fee includes support, software updates / upgrades and templates for cloud-based server. Expansion by one additional simultaneous user.</p> <p>Supplied:</p> <ul style="list-style-type: none"><li>– Annual fee for cloud-bases server</li><li>– Includes support, software updates / upgrades, templates</li><li>– One additional simultaneous user</li><li>– Max. 10 reports</li><li>– Max. 20 work orders</li><li>– Max. 2 resources</li><li>– Max. 12 user-defined attributes</li></ul>	1	R380028

Ordering Information	Description	MOQ	Part Number
	<b>R&amp;MinteliPhy Manage SaaS, unlimited edition, feature upgrade, annual fee</b> Annual fee includes support, software updates / upgrades and templates for cloud-based server. Removes the limitations on reports, work orders, resources and user-defined attributes with the Unlimited Edition.	1	R380044
	<b>R&amp;MinteliPhy Manage SaaS, test server 30 days, 100 cabinets</b> Cloud-based test server for evaluation purposes, with a term of 30 days. Allows the management of 100 network cabinets.	1	R380029
	<b>R&amp;MinteliPhy Manage SaaS, test server, 30 days, 100 cabinets, 2500 monitored ports</b> Cloud-based test server for evaluation purposes, with a term of 30 days. Allows the management of 100 network cabinets and 2500 ports with sensor bars.	1	R380045



- Features**
- Integration of information provided by 3rd-party systems into the R&MinteliPhy server
  - Mapping and evaluation of the information
  - Different protocols
  - Compatible with in-house and SaaS implementations

 Operating Systems Windows, Linux and Unix.

Ordering Information	Description	MOQ	Part Number
	<b>R&amp;MinteliPhy Manage Bridge, switch data synchronization</b> Tracks end-devices on the basis of forwarding tables in layer-2-switches.	1	R380031
	<b>R&amp;MinteliPhy Manage Bridge, management reporting</b> Generates reports at regular intervals, distributes them by e-mail or stores them on a file server.	1	R380035
	<b>R&amp;MinteliPhy Manage Bridge, data integration</b> Integration of data from 3rd-party systems. Protocols: SNMP, CSV, JDBC and HTTP.	1	R380036







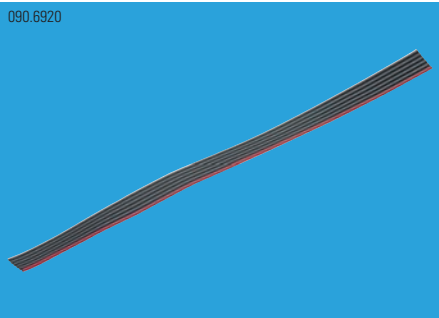

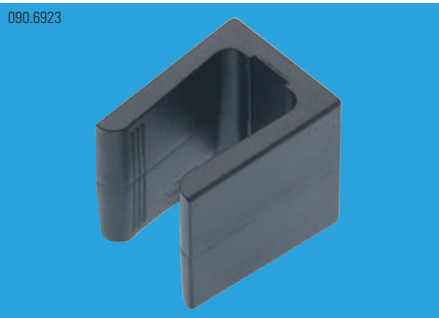
- Features**
- The RFID reader on the sensor bars reads the information contained on the RFID tags on the patch cords
  - Contactless, galvanically isolated transmission
  - Compatible with the R&M standard HD patch panel
  - Copper or fiber-optic connector


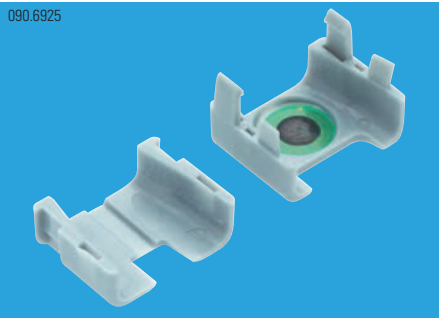
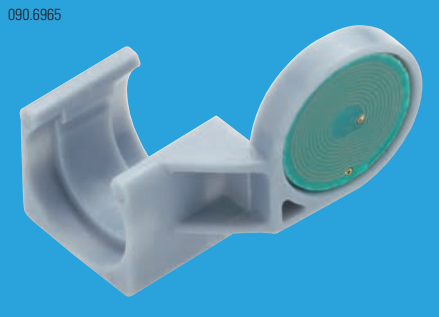
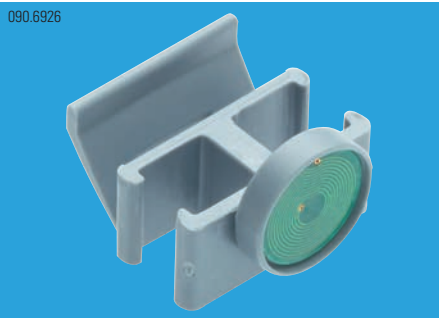
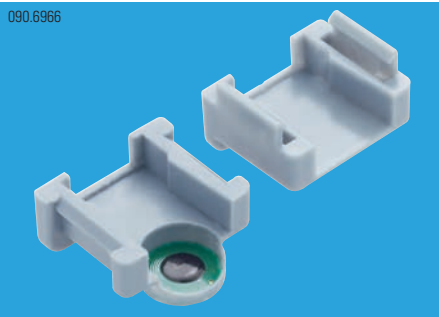
Ordering Information	Description	MOQ	Part Number
 090.6917	<b>R&amp;MinteliPhy Sensorbar, HD panel Cat.6A, FO (24 / 48 ports)</b> Sensor bar featuring 48 RFID readers. Suitable for the R&M HD Panel equipped with Cat.6A modules or FO adapters, FiberModules or MPO Modules. Any combination of copper and fiber optic ports is possible. Supplied: <ul style="list-style-type: none"><li>– Sensor bar featuring 48 RFID readers</li><li>– Holder left / right</li><li>– Bus cable clip</li></ul>	1	R809353
 090.6917	<b>R&amp;MinteliPhy Sensorbar, HD panel Cat.6 (24 ports)</b> Sensor bar featuring 24 RFID readers. Suitable for the R&M HD Panel equipped with Cat.6 or Cat.5e modules. Supplied: <ul style="list-style-type: none"><li>– Sensor bar featuring 24 RFID readers</li><li>– Holder left / right</li><li>– Bus cable clip</li></ul>	1	R809354
 090.6964	<b>R&amp;MinteliPhy Sensorbar, bus connector (qty 10)</b> Field-assembled connector to connect the bus cable to the sensor bars. Suitable for sensor bars of Cat.6A / fiber optic and Cat.6 / Cat.5e. Supplied: <ul style="list-style-type: none"><li>– 10 connectors, 6-pole</li></ul>	1	R809364
 090.6922	<b>R&amp;MinteliPhy Sensorbar, mounting kit spare parts (qty 10)</b> Holders for installing the sensor bar on the R&M HD patch panel. Supplied: <ul style="list-style-type: none"><li>– 10 holders left</li><li>– 10 holders right</li></ul>	1	R809355




- Features**
- Aggregates information from all sensor bars connected to it
  - Forwards the information to the R&MinteliPhy Manage Server
  - Power supply of the sensor bars
  - Field-assembled bus cable

Ordering Information	Description	MOQ	Part Number
 090.6915	<b>R&amp;MinteliPhy Analyzer, 19" 1U</b> Analyzer to be mounted in 19" network cabinets. Features LCD display and Ethernet interface. Controls up to 42 sensor bars. Supplied: <ul style="list-style-type: none"><li>– 19" 1U Analyzer</li><li>– 3 Analyzers / bus termination connectors</li><li>– 2 bus terminations</li><li>– Installation instructions</li></ul>	1	R809356
 090.6916	<b>R&amp;MinteliPhy Analyzer, compact 0U</b> Analyzer featuring Ethernet interface to be mounted (DIN-35mm top hat rail mounting) in the network cabinet. Controls up to 42 sensor bars. Supplied: <ul style="list-style-type: none"><li>– 0U Analyzer</li><li>– 3 Analyzers / bus termination connectors</li><li>– 2 bus terminations</li><li>– Installation instructions</li></ul>	1	R809357
 090.6963	<b>R&amp;MinteliPhy Analyzer / Bus Termination, connector, spare part (qty 10)</b> Field-assembled connectors to connect the Analyzer and the bus terminations at the bus cable. Supplied: <ul style="list-style-type: none"><li>– 10 connectors, 6-pole</li></ul>	1	R809358
 090.6924	<b>R&amp;MinteliPhy Analyzer, bus termination, spare part (qty 10)</b> Termination resistors for the bus termination. Supplied: <ul style="list-style-type: none"><li>– 10 bus terminations</li></ul>	1	R809359

Ordering Information	Description	MOQ	Part Number
090.6921 	<b>R&amp;MinteliPhy Analyzer, power supply 10W</b> For the power supply of up to 5 sensor bars. Compatible with all sensor bars and analyzers. Supplied: – Power supply unit 10W, 12V, incl. connection cable – 4 plug inserts (Euro, UK, US, JP)	1	R809360
090.6918 	<b>R&amp;MinteliPhy Analyzer, power supply 70W</b> For the power supply of up to 42 sensor bars. Compatible with all sensor bars and analyzers. Supplied: – Power supply unit 70W incl. connection cable Schuko on C13	1	R809362
090.6920 	<b>R&amp;MinteliPhy Bus Cable, 25m</b> 6-wire bus cable to connect analyzer and sensor bar. Length 25 m, for up to 10 network cabinets.	1	R809363
090.6919 	<b>R&amp;MinteliPhy Bus, wiring tool</b> For the field assembly of the bus connectors on the sensor bars and the bus termination connectors on the analyzers.	1	R809365
090.6923 	<b>R&amp;MinteliPhy Bus Cable, clip spare part (qty 10)</b> Covers for the bus connector at the sensor bar. Supplied: – 10 bus cable clips	1	R810223

Ordering Information	Description	MOQ	Part Number
090.6933 	<b>Features</b> – Field-retrofitable onto standard R&M patch cords – Tool-free mounting – Suitable for different connector types – Clear cable identification – Connector type identification		
090.6925 	<b>R&amp;MinteliPhy RFID, clip pair RJ45 (10 pairs)</b> For the tool-free retrofitting of 10 RJ45 patch cords with R&MinteliPhy functions. Compatible with R&M patch cords. Supplied: – Carton box containing 10 pairs of clips	1	R809348
090.6965 	<b>R&amp;MinteliPhy RFID, clip pair E-2000™ (10 pairs)</b> For the tool-free retrofitting of 10 E-2000™ patch cords with R&MinteliPhy functions. Compatible with R&M patch cords. Supplied: – Carton box containing 10 pairs of clips	1	R809350
090.6926 	<b>R&amp;MinteliPhy RFID, clip pair LC-Duplex (10 pairs)</b> For the tool-free retrofitting of 10 LC-Duplex patch cords with R&MinteliPhy functions. Compatible with R&M patch cords. Supplied: – Carton box containing 10 pairs of clips	1	R809349
090.6966 	<b>R&amp;MinteliPhy RFID, clip pair SC (10 pairs)</b> For the tool-free retrofitting of 10 SC patch cords with R&MinteliPhy functions. Compatible with R&M patch cords. Supplied: – Carton box containing 10 pairs of clips	1	R809351

Ordering Information	Description	MOQ	Part Number
	<p><b>R&amp;MinteliPhy RFID, clip pair MPO (10 pairs)</b></p> <p>For the tool-free retrofitting of 10 MPO patch cords with R&amp;MinteliPhy functions. Compatible with R&amp;M patch cords.</p> <p>Supplied:</p> <ul style="list-style-type: none"><li>– Carton box containing 10 pairs of clips</li></ul>	1	R809352





# 19" Cabinets

كباين معلومات ١٩ بوصة





- Cabinet Eco (CME)**  
**Features**
- Simple construction
  - Load capacity of up to 400kg
  - Standard cable cut-outs in cabinet ceiling & floor
  - Optionally with ventilator cut-out in ceiling

Description	MOQ	Part Number
<b>19" Cabinet CME 42U</b> A very strong and sturdy cabinet system designed for use in network environments. Supplied: <ul style="list-style-type: none"><li>– 2 pairs of 19" profiles (front/back)</li><li>– Swing handle with lock</li><li>– Front door with glass window</li><li>– Back panel with cable cut-out</li></ul>		
<b>800x800 mm</b>	10	R512783
– Back door with sheet steel <b>800x800 mm</b>	10	R512784



- Cabinet Optimal (CMO)**  
**Features**
- Strong and sturdy construction
  - Load capacity of up to 500kg
  - Several cable cut-outs in cabinet ceiling & floor
  - Optionally with ventilator cut-out in ceiling

Description	MOQ	Part Number
<b>19" Cabinet CMO 42U,</b> A very strong and sturdy cabinet system designed for use in data centers and server rooms. Supplied: <ul style="list-style-type: none"><li>– 2 pairs of 19" profiles (front/back)</li><li>– Swing handle with lock</li><li>– Front door with glass window</li><li>– Back door with sheet steel</li></ul>		
<b>800x800 mm</b>	10	R512785



- Cabinet Premium (CMD)**  
**Features**
- Strong and sturdy construction
  - Allows flexible configuration
  - Load capacity of up to 500kg
  - Various cable cut-outs in cabinet ceiling & floor

Description	MOQ	Part Number
<b>19" Cabinet CMD 42U,</b> A very strong and sturdy cabinet system designed for use as server cabinet in data centers. Supplied: <ul style="list-style-type: none"><li>– 2 pairs of 19" profiles (front/back)</li><li>– Swing handle with lock</li><li>– Front door with glass window</li><li>– Back door, sheet steel</li></ul>		
<b>800x800 mm</b>	10	R513203
<b>800x1000 mm</b>	10	R513205
– Back door, ventilated 83%		
<b>800x800 mm</b>	10	R513202
<b>800x1000 mm</b>	10	R513204



- Cabinet Robust (CMS)**  
**Features**
- Strong and sturdy construction supporting heavy active devices
  - Load capacity of up to 1000kg
  - Several cable cut-outs in cabinet ceiling and floor
  - Optionally with ventilator cut-out in ceiling

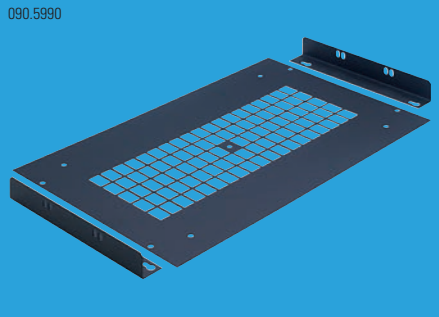

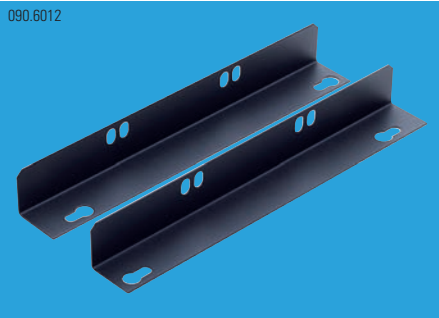


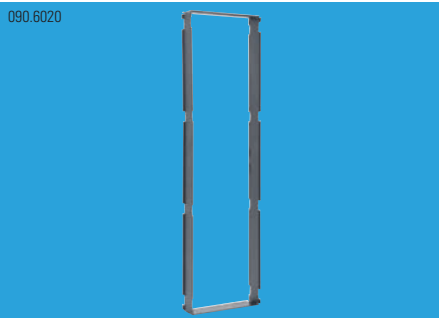



Description	MOQ	Part Number
<b>19" Cabinet CMS 42U,</b> A very strong and sturdy cabinet system designed for use as server cabinet in data centers. Supplied: <ul style="list-style-type: none"><li>– 2 pairs of 19" profiles (front/back)</li><li>– Swing handle with lock</li><li>– Front door ventilated 83%</li><li>– Back door ventilated 83%</li></ul>		
<b>800x800 mm</b>	10	R512789
<b>800x1000 mm</b>	10	R512790
<b>600x800 mm</b>	10	R512786
<b>600x1000 mm</b>	10	R512787
<b>600x1200 mm</b>	10	R512788



- Open Frame (CMF)**  
**Features**
- Strong and sturdy construction supporting heavy active devices
  - Depth-adjustable
  - Load capacity of up to 1500kg


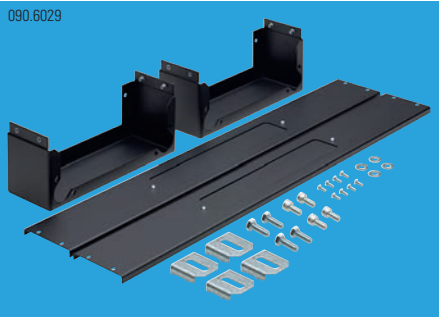

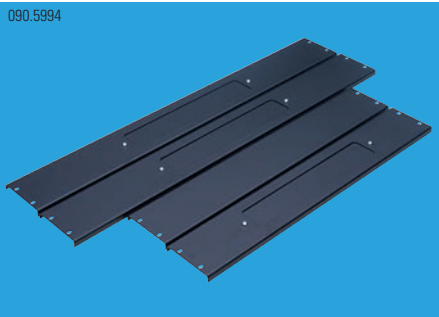
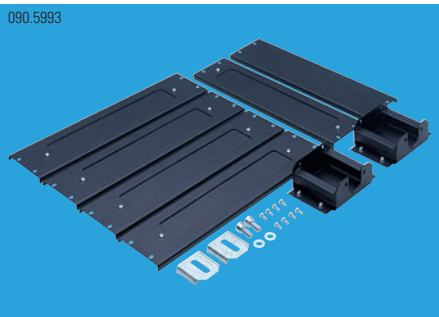
Description	MOQ	Part Number
<b>19" Open Frame CMF 42U,</b> An alternative to a closed server cabinet, this open frame has a load capacity of up to 1500kg (at distributed load). It features two 19" mounting levels and is the ideal solution in a lockable and dust-free server room. Supplied: <ul style="list-style-type: none"><li>– 2 pairs of 19" profiles (front/back)</li><li>– 19" profiles bearing height unit marking</li><li>– Base featuring tilt stopper</li></ul>		
<b>550x710-890 mm</b>	10	R513206
<b>550x920-1100 mm</b>	10	R513207



Ordering Information	Description	MOQ	Part Number
	<b>19" Fan 250V/38W,</b> Ventilation units and fans are used to enhance airflow for improved cooling of equipment installed in racks. Ventilation units are mounted either on 19" vertical extrusions (horizontally) or in top or bottom frame of the rack (mounting kit required). Supplied: – Fan unit – Thermostat of 0°C -60°C – Mounting bracket for horizontal 19" mounting – Mounting screws <b>210m³/h, black</b>	10	R513235
	<b>19" Fan 250V/76W,</b> <b>420m³/h, black</b>	10	R513238
	<b>Mounting Kit Fan 250V/38W,</b> Allow the mounting of fan into floor or ceiling constructions. Supplied: – Mounting bracket kit – Perforated mounting plate <b>600/800/1200 mm (depth cabinet)</b> <b>1000 mm (depth cabinet)</b>  Suitable for cabinet types: CME, CMO, CMS and CMD.	10 10	R513236 R513237
	<b>Mounting Kit Fan 250V/76W,</b> Allow the mounting of fan into floor or ceiling constructions. Supplied: – Mounting bracket kit <b>600/800/1200 mm (depth cabinet)</b>  Suitable for cabinet types: CME, CMO, CMS and CMD. – Perforated mounting plate <b>1000 mm (depth cabinet)</b>  Suitable for cabinet types: CMS and CMD.	10 10	R513239 R513240
	<b>Air Sealing 42U,</b> The air sealing vertical reduces air circulation within the cabinet. Supplied: – 2 frames, long – 2 frames, short – Sealing material <b>CMO 800 mm (wide cabinet)</b> <b>CMS 600 mm (wide cabinet)</b> <b>CMS 800 mm (wide cabinet)</b>	20 20 20	R513228 R513229 R513230
	<b>Air Deflector 800x800x150 mm</b> The air deflector is mounted in the cabinet floor. It directs the air to the space between door and active equipment. <b>Air Deflector 800x800x150 mm</b>  Suitable for cabinet types: CMO and CMD with depth 800 mm. <b>Air Deflector 800x1000x150 mm</b>  Suitable for cabinet type: CMD with depth 1000 mm.	20 20	R513231 R513232

Ordering Information	Description	MOQ	Part Number
	<b>19" Cable Management Plastic</b> Horizontal 19" patch cord manager for patch cord guidance in the cabinet system. Supplied: – Patch cord guide panel – Mounting screws <b>1U, black</b> <b>2U, black</b>	20 20	R513233 R513234
	<b>19" HD Cable Management</b> These high-density cable managers can be used for both vertical as well as horizontal cable guidance in the cabinet. Thanks to the featured cable management fingers, their use as strictly front-sided cable guidance is achieved fast and easily. Supplied: – 19" cable guide with fingers – 19" mounting set <b>1U, 112 OFR, black</b> <b>2U, 112 OFR, black</b> <b>3U, 112 OFR, black</b> <b>1U, 110 OFR, open, black/gray</b> <b>1U, 110 OFR, staggered, black/gray</b> <b>1U, 110 OFR, staggered, open, black/gray</b> <b>2U, 110 OFR, black/gray</b> <b>2U, 110 OFR, open, black/gray</b>	20 20 20 1 1 1 1 1 1	R513208 R513209 R513210 R795519 R795375 R795438 R795452 R795453
	<b>HD Cable Management 42U</b> These high-density cable managers can be used for both vertical as well as horizontal cable guidance in the cabinet. Thanks to the featured cable management fingers, their use as strictly front-sided cable guidance is achieved fast and easily. Supplied: – Vertical cable guide with fingers – 19" mounting kit <b>Cabinet, black</b> <b>Open Frame CMF, black</b>	20 20	R513211 R513213
	<b>HD Cable Management Traverse</b> To establish a horizontal traverse between two vertical cable managers. <b>Cabinet, black</b> <b>Open Frame CMF, black</b>	20 20	R513265 R513214

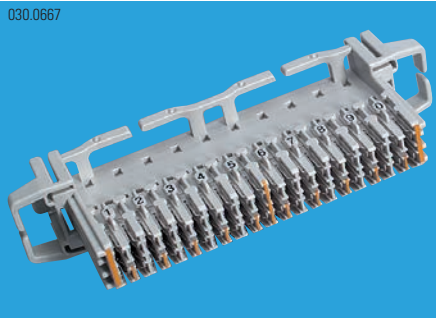


Ordering Information	Description	MOQ	Part Number
<div>090.6018</div> 	<b>Space Optimization 42U,</b> The end section is located at the end of a row of racks. The space optimization provides planning flexibility for data centers. The 300 mm wide section increases the usable space for cable and component installation on little floor space. Supplied: – Welded frame structure (with out side panels) – Front and rear panel with a lock – Cable inlets in the top and bottom cover <b>300x1000 mm</b>	20	R513212
	<div><div></div> Suitable for cabinet types: CMS and CMD with depth 1000 mm.</div>		
<div>090.6029</div> 	<b>Plinth Kit 100 mm, 300x1000 mm</b> Plinth kit complete. Supplied: – 2 side panels – Angled front panel – Angled rear panel – Fastening material	20	R513221
	<div><div></div> Suitable for space optimization.</div>		
<div>090.5992</div> 	<b>Plinth Corner Kit 100 mm,</b> These modular bases allow the lifting of the cabinet system. The plinth consists of plinth corners and side panels. Supplied: – 4 Plinth corners – Fastening material <b>800 kg (load rating)</b> <b>1700 kg (load rating)</b>	20 20	R513215 R513216
	<div><div></div> Suitable for cabinet types: CME, CMO, CMS and CMD.</div>		
<div>090.5994</div> 	<b>Side Panels Kit 100 mm, 600x800 mm</b> The plinth consists of plinth corners and side panels. Supplied: – 2 side panels – Front panel – Rear panel	20	R513217
	<div><div></div> Suitable for cabinet type: CMS.</div>		
<div>090.5993</div> 	<b>Side Panels Kit 100 mm, 600x1200 mm</b> The plinth consists of plinth corners and side panels. Supplied: – 4 side panels – 2 connecting pieces with fastening material – Front panel – Rear panel	20	R513218
	<div><div></div> Suitable for cabinet type: CMS.</div>		

Ordering Information	Description	MOQ	Part Number
<div>090.6042</div> 	<b>Side Panels Kit 100 mm, 800x800 mm</b> The plinth consists of plinth corners and side panels. Supplied: – 2 side panels – Front panel – Rear panel	20	R513219
	<div><div></div> Suitable for cabinet types: CME, CMO, CMS and CMD.</div>		
<div>090.5994</div> 	<b>Side Panels Kit 100 mm, 800x1000 mm</b> The plinth consists of plinth corners and side panels. Supplied: – 2 side panels – Front panel – Rear panel	20	R513220
	<div><div></div> Suitable for cabinet types: CMS and CMD.</div>		
<div>090.5981</div> 	<b>19" Blind Plate</b> Blind cover to reduce air circulation. The blind cover is mounted and removed without tools. <b>1U, black</b> <b>2U, black</b> <b>3U, black</b> <b>5U, black</b>	20 20 20 20	R513224 R513225 R513226 R513227
<div>090.5986</div> 	<b>19" Socket Strip 250V/16A, 9x SCHUKO</b> A power distribution strip for the power supply of active devices with nominal voltage 250V. Supplied: – Power distribution with 9 type SCHUKO sockets – 19" mounting bracket	20	R513242
	<div><div></div> With out over voltage protection.</div>		
<div>090.5979</div> 	<b>Cable Guide Cabinet, 300x100 mm</b> Cable guide panels for cable entry into the cabinet system. Featured brushes guarantee a dust-free cable entry.	20	R513222
	<div><div></div> Suitable for cabinet types: CME, CMO, CMS and CMD.</div>		
	<b>Cable Guide Raised Floor, 410x215 mm</b>	20	R513223



Connection System  
Connection Modules

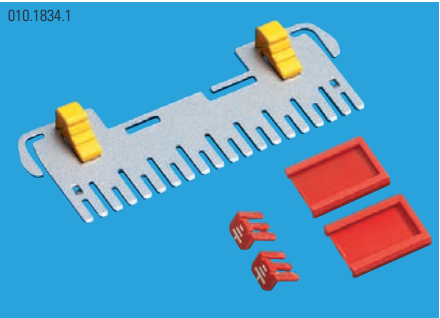



- Features:**
- To snap onto back mount frames or mounting profiles
  - Packing density of up to 4200 pairs/m²
  - Wiring in IDC technology without expensive tools
  - Gold-plated contacts
  - Protection components ensure permanent person and equipment protection
  - Protection components are plugged in at the front
  - Contacts for disconnection and testing at the front
  - Module bodies made of one piece

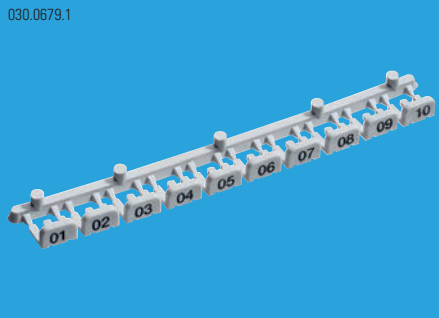
Ordering Information	Description	MOQ	Part Number
	<b>8-Pair Module</b> Grid size: 20 mm. Supplied: <ul style="list-style-type: none"><li>– VS Compact module, printed</li><li>– Installation instructions</li><li>– Mini tool (wiring tool)</li></ul>		
	<b>Connection Module 8 pairs (20 mm)</b>	10	R300035
	<b>Disconnection Module 8 pairs (20 mm)</b>	10	R300036
	<b>Normally Open Module 8 pairs (20 mm)</b>	10	R300037
	<b>10-Pair Module</b> Grid size: 20 mm. Supplied: <ul style="list-style-type: none"><li>– VS Compact module, printed</li><li>– Installation instructions</li><li>– Mini tool (wiring tool)</li></ul>		
	<b>Connection Module 10 pairs (20 mm)</b>	10	R300039
	<b>Disconnection Module 10 pairs (20 mm)</b>	10	R300040
	<b>Normally Open Module 10 pairs (20 mm)</b>	10	R300041
	<b>16-Pair Module</b> Grid size: 25 mm. Supplied: <ul style="list-style-type: none"><li>– VS Compact module, printed</li><li>– Installation instructions</li><li>– Mini tool (wiring tool)</li></ul>		
	<b>Connection Module 16 pairs (25 mm)</b>	10	R300045
	<b>Disconnection Module 16 pairs (25 mm)</b>	10	R300046
	<b>Normally Open Module 16 pairs (25 mm)</b>	10	R300047
	<b>20-Pair Module</b> Grid size: 25 mm. Supplied: <ul style="list-style-type: none"><li>– VS Compact module, printed</li><li>– Installation instructions</li><li>– Mini tool (wiring tool)</li></ul>		
	<b>Connection Module 20 pairs (25 mm)</b>	10	R300049
	<b>Disconnection Module 20 pairs (25 mm)</b>	10	R300050
	<b>Normally Open Module 20 pairs (25 mm)</b>	10	R300051

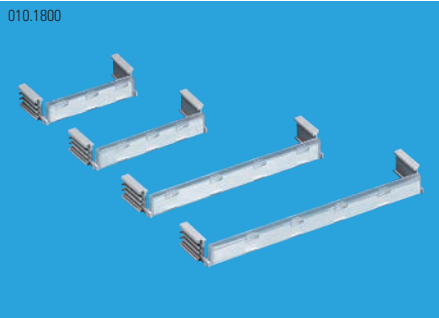
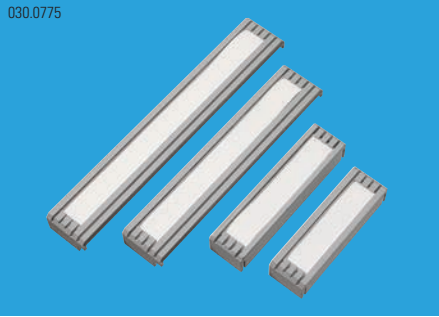
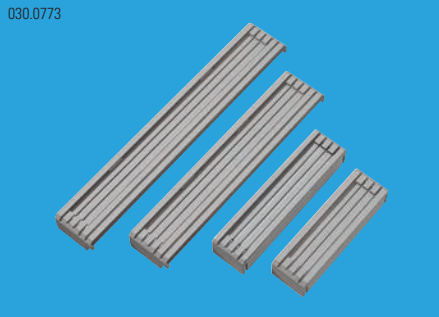


Ordering Information	Description	MOQ	Part Number	
	<b>25-Pair Module</b> Grid size: 25 mm. Supplied: – VS Compact module, printed – Installation instructions – Mini tool (wiring tool)			
	<b>Connection Module 25 pairs (25 mm)</b>	10	R300674	
	<b>Disconnection Module 25 pairs (25 mm)</b>	10	R300675	
	<b>Normally Open Module 25 pairs (25 mm)</b>	10	R300757	
	<b>10-Pair Module (17.5 mm)</b> Grid size: 17.5 mm. Supplied: – VS Compact module, printed – Installation instructions – Mini tool (wiring tool)			
	<b>Connection Module 10 pairs (17.5 mm)</b>	10	R300043	
	<b>Disconnection Module 10 pairs (17.5 mm)</b>	10	R300044	
	<b>8-Pair DDF Module</b> The DDF modules are used for high transmission rates (XDSL). 8 lines (8 times a, b, s) can be connected on one DDF module. The shield plate inserted from rear connects s-contact directly with back mount frame or mounting profile, guaranteeing top grounding contact quality. Grid size: 25 mm. Supplied: – VS Compact module, printed – Installation instructions – Mini tool (wiring tool)			
	<b>Disconnection Module DDF 8 pairs (25 mm)</b>	10	R302788	
	 Does not include shield plates, R302704 or R304383			
	<b>Shield Plate DDF, type C</b> For VS Compact DDF modules 8 (16) pairs offering the option of directly contacting cable screen and shield plate. Supplied: – Shield plate DDF, type C – Sleeve screen for small cable diameters – Shield contact spring – 2 cable ties			
		10	R304383	
	<b>Shield Plate DDF</b> Shield plate DDF for VS Compact DDF modules.	10	R302704	

Ordering Information	Description	MOQ	Part Number
	<b>Grounding Module Kit</b> To convert a VS Compact connection module into an grounding module. The grounding plates are plugged in at the module's back, safely avoiding contact with back mount frames or mounting profiles. Supplied: – Grounding plate – 2 labeling clips, red – 2 clips indicating ground		
	<b>10 pairs</b>	10	R300466
	<b>16 pairs</b>	10	R302184
	<b>20 pairs</b>	10	R300467
	<b>Disconnection Plug</b> To disconnect the lines between cable side and jumper side in disconnection modules. Material: POM. <b>1 pair, black</b> <b>5 pairs, black</b> <b>8 pairs, black</b> <b>10 pairs, black</b>		
		100	R300067
		20	R302606
		20	R302607
	<b>Marking Plug 1 pair,</b> To identify individual lines, suitable for all VS Compact modules. Ideal for protection from inadvertent disconnection in disconnection modules. Material: plastic (POM). <b>red</b> <b>blue</b>		
		100	R300066
		100	R306376
	<b>Marking Cap 1 pair,</b> To mark individual pairs. Simply snapped onto VS Compact modules. Patching and testing still possible when snapped on. Material: plastic (PP). <b>green</b>		
		100	R309931



Ordering Information	Description	MOQ	Part Number
<div>030.0678</div> 	<b>Designation Clip,</b> For the labeling of all VS Compact modules. Can be snapped on at both sides of a module. Supplied: – 20 designation clips – Labeling sheet		
	<b>red</b>	20	R300292
	<b>black</b>	20	R300293
	<b>yellow</b>	20	R300294
	<b>blue</b>	20	R300295
<div>030.0679.1</div> 	<b>Numbering Clip</b> For the numbering of the modules. To be snapped onto the side.		
	<b>01-10, gray</b>	10	R300065
	<b>00-90, gray</b>	10	R301920
	<b>20-200, gray</b>	10	R303416
	<b>100-(1)000, gray</b>	10	R303417
<div>030.0679.1</div> 	<b>Numbering Clip</b> Binary code. For the numbering of the modules. To be snapped onto the side.		
	<b>08-80, gray</b>	10	R303418
	<b>88-160, gray</b>	10	R303419
	<b>16-160, gray</b>	10	R303420
	<b>176-320, gray</b>	10	R303421
	<b>0-18, gray</b>	10	R306786
<div>010.1743</div> 	<b>Module Label Holder</b> Suitable for all VS Compact modules. Allows the individual labeling of modules. Patching side and test point remain accessible. Supplied: – Module label holder – Label sheet for module labeling – Label sheet for label holder		
	<b>10 pairs</b>	10	R302514
	<b>16 pairs</b>	10	R302515
	<b>20 pairs</b>	10	R302516
	<b>25 pairs</b>	10	R305215

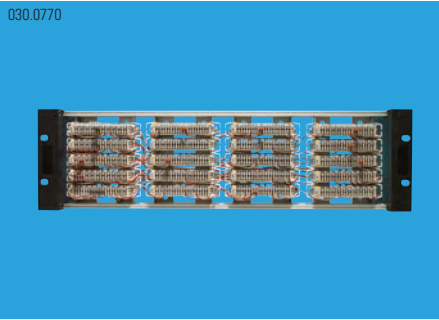
Ordering Information	Description	MOQ	Part Number
<div>010.1800</div> 	<b>Hinged Label Holder</b> Suitable for all VS Compact modules. Supplied: – Side element, right/left – Hinged holder of label strip – Label strips – Transparent cover		
	<b>8 pairs</b>	10	R100622
	<b>10 pairs</b>	10	R100623
	<b>16 pairs</b>	10	R100641
	<b>20 pairs</b>	10	R100642
	<b>25 pairs</b>	10	R101390
<div>030.0775</div> 	<b>Label Holder</b> For the labeling of blocks and verticals. Directly attachable to mounting profiles. Dimensions: width x grid size (mm). Supplied: – Label holder frame and cover – Labeling strips		
	<b>8 pairs, 64x20</b>	10	R300664
	<b>10 pairs, 78x20</b>	10	R300665
	<b>10 pairs, 78x17.5</b>	10	R302017
	<b>16 pairs, 120x25</b>	10	R300666
	<b>20 pairs, 148x25</b>	10	R300667
	<b>25 pairs, 184x25</b>	10	R305208
<div>030.0773</div> 	<b>Single Blind Cover</b> To cover individual unused ports at the distributor. Dimensions: width x grid size (mm).		
	<b>10 pairs, 78x20</b>	10	R301047
	<b>16 pairs, 120x25</b>	10	R301048
	<b>25 pairs, 184x25</b>	10	R311841

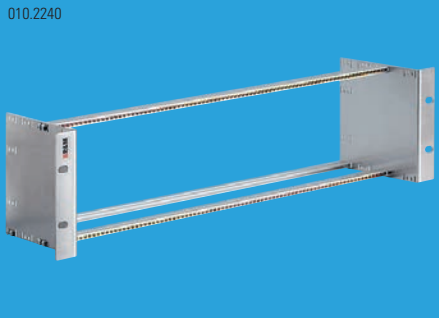
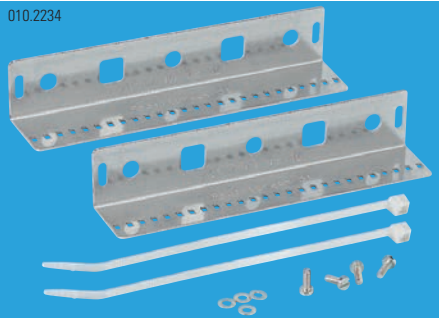
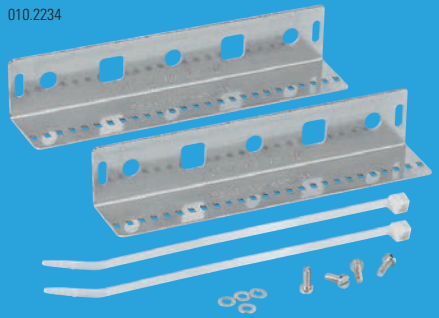
Ordering Information	Description	MOQ	Part Number
090.2053	<b>Protection Magazine 1 pair, equipped</b> Suitable for all VS Compact modules. Supplied: – Protection magazine, empty – 3-electrode arrester 6x8 mm, 2x5 kA, 230 V – Installation instructions		
	<b>with arrester without failsafe (FS)</b> <b>with arrester with FS plus FS display</b>	10 10	R304955 R304957
<b>i</b> For overvoltage protection a grounding rail is required			
090.2054	<b>Protection Magazine 5 pairs, equipped</b> Suitable for all VS Compact modules from 5 pairs up. Supplied: – Protection magazine, empty – Five 3-electrode arresters 6x8 mm, 2x5 kA, 230 V – Installation instructions		
	<b>with arrester without failsafe (FS)</b> <b>with arrester with FS plus FS display</b>	10 20	R304956 R304958
<b>i</b> For overvoltage protection a grounding rail is required			
030.0686a	<b>Grounding Rail</b> Connects protection magazine and ground of the VS Compact back mount frame. The grounding plates are plugged in at the front of the modules.		
	<b>10 pairs</b>	10	R300092
	<b>16 pairs</b>	10	R300094
	<b>20 pairs</b>	10	R300095
	<b>25 pairs</b>	10	R305209
010.1750	<b>3-Electrode Arrester</b> Suitable for 1-pair and 5-pair VS Compact protection magazines. Supplied: – 3-electrode arrester 6x8 mm, 2x5 kA, 230 V		
	<b>without failsafe (FS), 230 V</b> <b>with FS and FS display, 230 V</b>	100 500	R300231 R300233
010.1749	<b>Protection Plug PTC</b> 1-pair protection plug with reversible PTC overcurrent protection elements and test contact. Suitable for VS Compact disconnection and normally open modules.		
	<b>150 mA</b> <b>150 mA, short</b>	10 10	R300063 R302977
<b>i</b> PTC, 150 mA, short, not suitable for modules of grid size 17.5 mm			

Ordering Information	Description	MOQ	Part Number
090.2262	<b>Features</b> – Double packing density in distribution systems – More protection and safety for connections – Modular and convenient installation – The same wiring tool as with VS Compact modules can be used – Category 5e performance – Protection against environmental factors such as dirt and dampness with the handy gel kit		
010.3574	<b>SLIM Connection Module</b> 10-pair connection module with cable cover. Supplied: – Connection module – Cable cover (R312729) Per packing unit: – Wiring tool "Mini Tool" (R300068) – Installation instructions		
	<b>10 pairs</b>	10	R312544
090.2257	<b>SLIM Cable Cover</b> The cable cover is included with the connection module. It can also be ordered separately as a spare part.		
	<b>10 pairs</b>	10	R312729
090.2258	<b>SLIM Front Cover</b> The front cover provides additional contact protection. Labeling field included.		
	<b>10 pairs</b>	10	R312728
010.3575	<b>SLIM Gel Kit</b> To increase protection by filling the cable cover and front cover on site. Supplied: – Bottle of gel (soft polymer) – 10 front covers (R312728) – Installation instructions		
		1	R312727



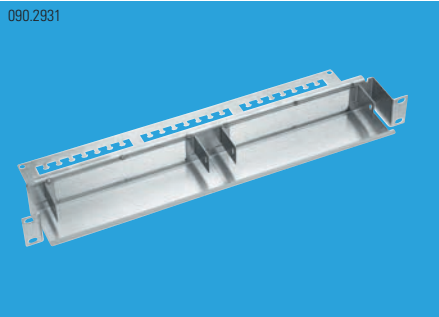
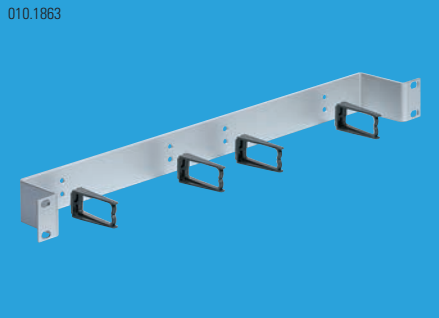
Patch Panels  
19" Sub-Racks



Ordering Information	Description	MOQ	Part Number
	<b>19" Sub-Rack, 3U</b> Used for fastening the mounting profiles for VS Compact modules. The sub-rack accepts 2 to 4 mounting profile kits, depending on module size. Maximum capacity: – 4 19" splitter back mount frames. – 4 mounting profile kits, 8/10 pairs. – 3 mounting profile kits, 16 pairs. – 2 mounting profile kits, 20/25 pairs. Supplied: – 19" sub-rack, empty – Grounding flex plus M5 cable lug – M5 x 10 grounding flex fastening screw – 19" mounting kit (4 screws, plastic washers, cage nuts) – Installation instructions	1	R300662
	<b>19" Mounting Profile Kit, 17.5 mm</b> Mounting profiles fitting empty 19" 3U sub-racks. Maximum capacity: – 7 modules of grid size 17.5 mm. Supplied: – 2 mounting profiles for 19" sub-racks – Mounting kit (4 screws, washers) – 2 cable ties, large	1	R301943
	<b>19" Mounting Profile Kit, 20/25 mm</b> Mounting profiles fitting empty 19" 3U sub-racks. Maximum capacity: – 6 modules of grid size 20 mm. – 5 modules of grid size 25 mm. Supplied: – 2 mounting profiles for 19" sub-racks – Mounting kit (4 screws, washers) – 2 cable ties, large	1	R300663

لوحات التجميع  
لوحات التجميع عرض 19 بوصة

Patch Panels  
19" Sub-Racks

Ordering Information	Description	MOQ	Part Number
	<b>19" Sub-Rack 2x25 pairs, 1U</b> Complete 1U sub-rack to accommodate two VS Compact 25 pairs connection modules. Supplied: – 19" rack – 19" mounting kit	1	R315707
	<b>19" Patch Cord guide panel, 1U</b> The patch cord guide panel ensures a neatly structured patch wire management between distribution fields. Supplied: – Patch cord guide panel, 1U, recessed (aluminum) – 4 jumpering brackets – 19" mounting kit	1	R302705

لوحات التجميع  
لوحات التجميع عرض 19 بوصة



Ordering Information	Description	MOQ	Part Number
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**Wiring Tool**  
For wiring all VS Compact modules. The wires are contacted and cut to length in one single and efficient step.  
Material: plastic (PPE+PS).  
Supplied:  
– One Mini Tool is supplied for free with 10 VS Compact modules.  
**“Mini Tool”**

10

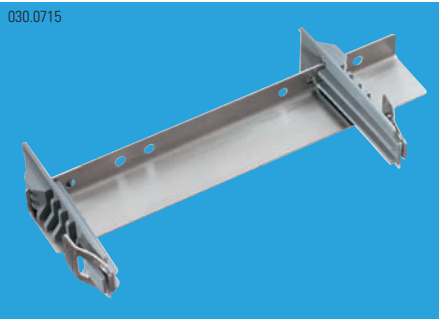
R300068



**Wiring Tool**  
For wiring all VS Compact modules. The wires are contacted and cut to length in one single and efficient step.  
Material: plastic (PA66-GF25), chrome-nickel-steel.  
Supplied:  
– Wiring tool recommended for wire diameter 0.8 mm  
– The tip is made of metal  
– Features a hook to remove jumper wires from the modules  
**“Comfort Tool”**

10

R300069



**Wiring Base,**  
Tool supporting the wiring of VS Compact modules.  
Supplied:  
– Holder rail (chrome-nickel-steel)  
– Side parts left/right (plastic: PA66-GF25)  
– Instructions for the wiring base  
**8 pairs / 10 pairs**  
**16 pairs / 20 pairs**  
**25 pairs**

1

R300464

1

R300465

1

R306617



**Extraction Tool**  
Extraction tool to swiftly pull out the 5-pair protection magazine form VS Compact modules.  
**for 5-pair protection magazine**

1

R305586



**Features:**  
– Accommodates VS Compact 10-pair modules (grid size 20 mm)  
– Suitable for all protection components and all accessories  
– Highly convenient installation, the side panels are integral parts of the top plate  
– Top plate equipped with labeling shield  
– Can be aligned without gaps  
– Optional part cylinder lock  
– Grounding included

Ordering Information	Description	PU	Part No.
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**ConBox 150 pairs**  
– Complete small distributor suitable for 10-pair VS Compact modules of 20 mm grid size  
– Can be equipped with protection components and accessories  
Supplied:  
– Cover hood 215 x 133 x 446 mm (WxDxH)  
– 2 mounting plates for 1 vertical  
– 2 brackets to fit cover hood  
– Back mount frames 10 pairs (max. 15 units)  
– Labeling shield

1

R314868



**ConBox 300 pairs**  
– Complete small distributor suitable for 10-pair VS Compact modules of 20 mm grid size  
– Can be equipped with protection components and accessories  
Supplied:  
– Cover hood 215 x 133 x 746 mm (WxDxH)  
– 2 mounting plates for 1 vertical  
– 2 brackets to fit cover hood  
– Back mount frames 10 pairs (max. 30 units)  
– Labeling shield

1

R314869



**ConBox 300 pairs, horizontal**  
– Complete small distributor suitable for 10-pair VS Compact modules of 20 mm grid size  
– Can be equipped with protection components and accessories  
Supplied:  
– Cover hood 400 x 133 x 446 mm (WxDxH)  
– 4 mounting plates for 2 verticals  
– 2 brackets to fit cover hood  
– 2 back mount frames 10 pairs (max. 30 units)  
– Labeling shield

1

R314870

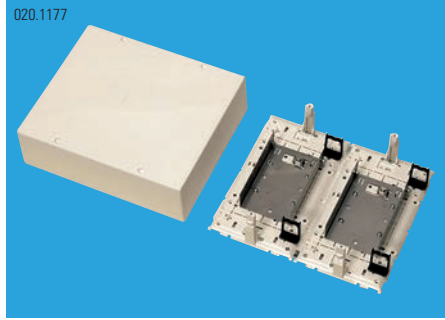


**ConBox 600 pairs, horizontal**  
– Complete small distributor suitable for 10-pair VS Compact modules of 20 mm grid size  
– Can be equipped with protection components and accessories  
Supplied:  
– Cover hood 400 x 133 x 746 mm (WxDxH)  
– 4 mounting plates for 2 verticals  
– 2 brackets to fit cover hood  
– 2 back mount frames 10 pairs (max. 60 units)  
– Labeling shield

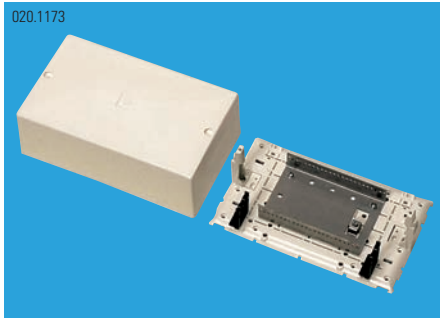
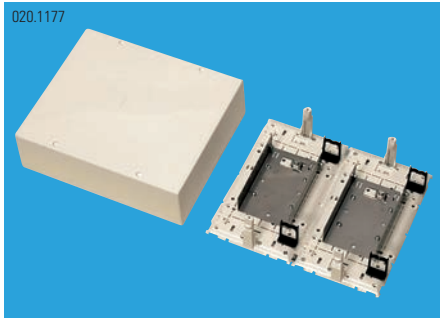
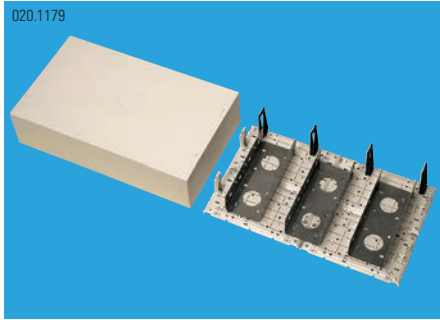
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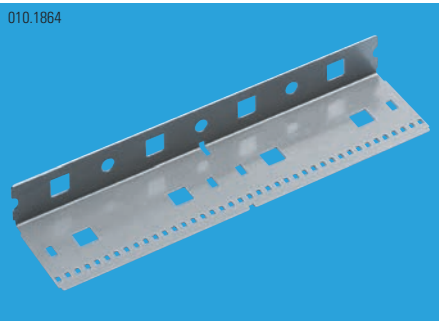

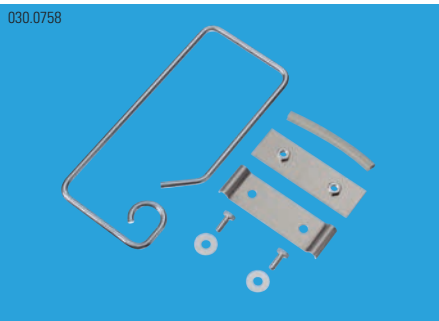
R314871

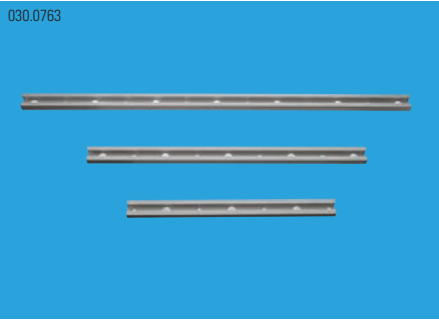
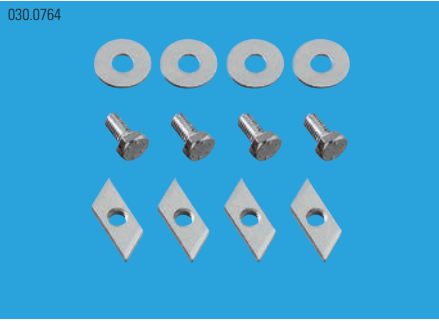

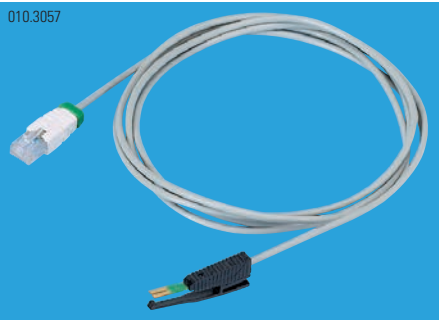
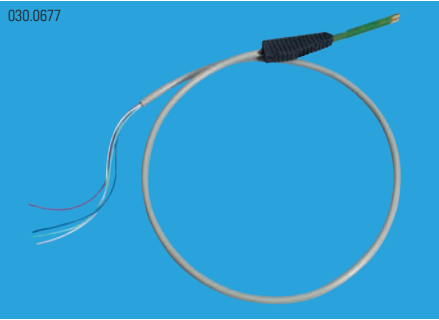




Ordering Information	Description	PU	Part No.
020.1172	<p><b>SM Housing</b></p> <ul style="list-style-type: none"> <li>– Cannot be equipped with protection components</li> </ul> <p>Supplied:</p> <ul style="list-style-type: none"> <li>– Bottom part</li> <li>– Top part 60 x 50 x 180 mm (WxDxH)</li> <li>– 2 mounting profiles 15 x 20 mm</li> <li>– 2 screws KA40 x 8 mm</li> <li>– 2 washers</li> <li>– Duo-adhesive label T+T/neutral 60 x 25 mm</li> <li>– 2 cable ties, small</li> <li>– Installation instructions</li> </ul> <p><b>8 pairs</b></p> <p><b>10 pairs</b></p>	<p>1</p> <p>1</p>	<p>R302912</p> <p>R302914</p>
020.1175	<p><b>SM Housing 20 pairs</b></p> <ul style="list-style-type: none"> <li>– Cannot be equipped with protection components</li> </ul> <p>Supplied:</p> <ul style="list-style-type: none"> <li>– Bottom part</li> <li>– Top part 102 x 57 x 152 mm (WxDxH)</li> <li>– Back mount frame for 2 x 10-pair VS Compact</li> <li>– 2 screws KA40 x 8 mm</li> <li>– 2 washers</li> <li>– Duo-adhesive label T+T/neutral 60 x 25 mm</li> <li>– 2 cable ties, small</li> <li>– Installation instructions</li> </ul>	<p>1</p>	<p>R302915</p>
020.1173	<p><b>SM Housing 40 pairs</b></p> <ul style="list-style-type: none"> <li>– Can be equipped with protection components</li> </ul> <p>Supplied:</p> <ul style="list-style-type: none"> <li>– Bottom part</li> <li>– Top part 130 x 80 x 220 mm (WxDxH)</li> <li>– Back mount frame 5 x 8 pairs</li> <li>– Clamping bracket M4</li> <li>– Screw M4 x 6 mm</li> <li>– Serrated lock washer M4</li> <li>– 2 screws KA40 x 8 mm</li> <li>– 2 washers</li> <li>– 2 patching rings, small</li> <li>– Duo-adhesive label T+T/neutral 60 x 25 mm</li> <li>– 2 cable ties, small</li> <li>– Installation instructions</li> </ul>	<p>1</p>	<p>R302913</p>

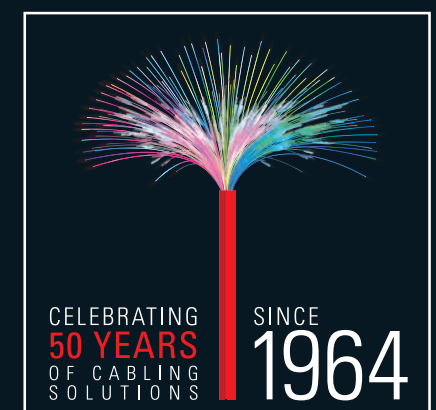
Ordering Information	Description	PU	Part No.
 <p>020.1173</p>	<p><b>SM Housing 50 pairs</b></p> <ul style="list-style-type: none"> <li>– Can be equipped with protection components</li> </ul> <p>Supplied:</p> <ul style="list-style-type: none"> <li>– Bottom part</li> <li>– Top part 130 x 80 x 220 mm (WxDxH)</li> <li>– Back mount frame for 6 modules 10 pair</li> <li>– Clamping bracket M4</li> <li>– Screw M4 x 6 mm</li> <li>– Serrated lock washer M4</li> <li>– 2 screws KA40 x 8 mm</li> <li>– 2 washers</li> <li>– 2 patching rings, small</li> <li>– Duo-adhesive label T+T/neutral 60 x 25 mm</li> <li>– 2 cable ties, small</li> <li>– Installation instructions</li> </ul>	1	R302916
 <p>020.1177</p>	<p><b>SM Housing 100 pairs</b></p> <ul style="list-style-type: none"> <li>– Can be equipped with protection components</li> </ul> <p>Supplied:</p> <ul style="list-style-type: none"> <li>– 2 bottom parts incl. connecting pieces</li> <li>– Top part 220 x 80 x 260 mm (WxDxH)</li> <li>– 2 back mount frame each 6 modules 10 pair</li> <li>– 2 clamping brackets M4</li> <li>– 2 screws M4 x 6 mm</li> <li>– 4 serrated lock washers M4</li> <li>– 4 screws KA40 x 8 mm</li> <li>– 4 washers</li> <li>– 4 patching rings, small</li> <li>– Duo-adhesive label T+T/neutral 60 x 25 mm</li> <li>– 4 cable ties, small</li> <li>– Installation instructions</li> </ul>	1	R302917
 <p>020.1179</p>	<p><b>SM Housing 300 pairs</b></p> <ul style="list-style-type: none"> <li>– Can be equipped with protection components</li> </ul> <p>Supplied:</p> <ul style="list-style-type: none"> <li>– 3 bottom parts incl. connecting pieces</li> <li>– Top part 440 x 110 x 260 mm (WxDxH)</li> <li>– 3 back mount frames each 10 modules 10 pair</li> <li>– 12 screws KA40 x 8 mm</li> <li>– 12 washers</li> <li>– 4 patching rings, small</li> <li>– Duo-adhesive label T+T/neutral 60 x 25 mm</li> <li>– 4 cable ties, small</li> <li>– Installation instructions</li> </ul>	1	R302918

Ordering Information	Description	MOQ	Part Number
	<b>Mounting Profile, 20/25 mm,</b> – Mounting profile (depth x length) – Grid size: 20/25 mm – Material: steel (1.4301)		
	<b>25 x 100 mm</b>	1	R304938
	<b>25 x 200 mm</b>	1	R300010
	<b>25 x 400 mm</b>	1	R303007
	<b>25 x 440 mm</b>	1	R307348
	<b>25 x 600 mm</b>	1	R303008
	<b>25 x 800 mm</b>	1	R302064
	<b>25 x 1000 mm</b>	1	R302065
	<b>25 x 1500 mm</b>	1	R300011
	<b>25 x 2000 mm</b>	1	R300012
	<b>25 x 2200 mm</b>	1	R304636
	<b>25 x 2500 mm</b>	1	R300659
	<b>50 x 200 mm</b>	1	R300013
	<b>50 x 250 mm</b>	1	R307838
	<b>50 x 400 mm</b>	1	R300014
	<b>50 x 1000 mm</b>	1	R304995
	<b>50 x 2000 mm</b>	1	R304494
	<b>100 x 200 mm</b>	1	R303211
	<b>100 x 400 mm</b>	1	R300016
	<b>100 x 800 mm</b>	1	R300017
	<b>100 x 900 mm</b>	1	R303212
	<b>100 x 1000 mm</b>	1	R301863
	<b>100 x 1500 mm</b>	1	R300018
	<b>100 x 2200 mm</b>	1	R304997
	<b>200 x 1500 mm</b>	1	R300019
	<b>200 x 2000 mm</b>	1	R300020
	<b>200 x 2500 mm</b>	1	R300021
	<b>Transfer Ring, large</b> – For snap-on side mounting to mounting profiles and back mount frames – Min. profile depth required 100 mm	1	R301050
	<b>Transfer Strap</b> – To be screwed on at the side of a mounting profile or back mount frame – Min. profile depth required for mounting is 50 mm Supplied: – Transfer strap, made of steel (1.4301), chromium-plated – Mounting plate – Edge protection profile – 2 fastening screws M6 x 12 – 2 washers M6 – 2 counternuts M6	1	R300025

Ordering Information	Description	MOQ	Part Number
	<b>Wall Rail Kit,</b> – Required for attaching VS Compact mounting profiles to walls Supplied: – 2 wall rails (length) – 6 insulating sleeves – 6 insulating disks – 2 end pieces		
	<b>500 mm</b> <b>1000 mm</b> <b>1500 mm</b> <b>2000 mm</b>	1 1 1 1	R300768 R300769 R300770 R300771
	<b>Mounting Kit 90°</b> – For the direct attachment of mounting profiles to wall rails Supplied: – 4 fastening screws M6 x 12 – 4 washers – 4 slide nuts	1	R301058
	<b>Connection Cord 1 pair,</b> – Fitted with a VS Compact 1-pair test plug on both sides – Contact interface on patching and cable side	1 1	R302604 R302605
	<b>2.5 m</b> <b>3.0 m</b>		
	<b>Patch Cord 1 pair,</b> – Fitted with a VS Compact plug on one end and a RJ45 connector on the other – For direct patching of VS Compact to RJ45	1 1	R307232 R307231
	<b>VS-RJ45 (3/6), 2.0 m</b> <b>VS-RJ45 (4/5), 2.0 m</b>		
	<b>Test Cord "Universal",</b> – Test cord for customer assembly – For use as test adapter to connect all types of test equipment – Contact interface on cable and jumper side – Open cable end	1 1	R300073 R307035
	<b>2.5 m, without snap-in stop</b> <b>2.5 m, with snap-in stop</b>		



تعتبر R&M واحدة من الشركات الرائدة لحلول الكابلات لشبكات الاتصالات ذات الجودة العالية. تقوم الشركة في جميع أنحاء العالم بمساهمة فعالة للتشغيل الآمن لشبكات نقل وإرسال الصوت والبيانات والفيديو من خلال الكابلات النحاسية والألياف الضوئية. تتميز منتجات R&M بسهولة التركيب والصيانة. تؤكد حلول R&M تميزها وتفوقها من خلال بناء شبكة اقتصادية مع الاستفادة القصوى من مقومات الشبكة بالالتزام بأعلى معايير الجودة. الجودة العالية والتصميم المتطور لمنتجات R&M تضمن قدرة الشبكات على تلبية الاحتياجات الحالية والمستقبلية مما يحافظ على الإستثمارات في الشبكة على المدى الطويل. تستخدم حلول كابلات R&M لدى مشغلي الشبكات وفي المكاتب والمنازل والمصانع.



## احصل على المزيد من: النجاح

إن شبكات الاتصالات عالية الجودة ذات المرونة والقدرة على تحقيق متطلبات المستخدمين تعتبر بمثابة عوامل نجاح حاسمة بالنسبة لعملاء R&M فهم يتوقعون تأثير إيجابي على الأرباح من خلال الإستثمار في البنية التحتية، سواء من خلال تحقيق إنتاجية أعلى و تخفيض تكاليف الصيانة و تأمين تشغيل الشبكة بدون اعطال. كل هذا يجعلنا نبذل أقصى ما في قدرتنا لمساعدة عملائنا على النجاح.

## احصل على المزيد من: الاستمرارية

R&M شركة عائلية سويسرية مستقلة و مملوكة بالكامل لعائلة راكلي. منذ أن تم تأسيسها في عام 1964، قامت الشركة بالتركيز على تطوير وتصنيع أنظمة الكابلات لشبكات الاتصالات. منذ عام 1999، يتم ادارة الشركة بواسطة الجيل الثاني، مارتن و بيتر راكلي. إن قراراتنا لا تستهدف تحقيق أرباح على المدى القصير، بل الاستثمار في تطوير الشركة على المدى الطويل. بهذه الطريقة يستطيع عملاؤنا دوماً أن يثقوا في اختيارهم.

احصل على المزيد من: نظام الحماية تهدف منتجاتنا و خدماتنا إلى توفير اكبر

قدر من الاستقرار و الاتاحية لشبكات الاتصالات. إننا نحقق هذا الأمر من خلال منتجات ذات جودة متميزة و فريدة من نوعها مما يضمن أداء عالياً و عمر افتراضى اطول. إضافة إلى ذلك، فإننا ندعم بشدة المخططين و المنفذين و العملاء النهائيين عن طريق تقديم المشورة بشأن إختيار افضل الأنظمة و المساعدة في تصميم الشبكة و توجيه المشاريع الى مرحلة التشغيل اذا رغب العميل. بهذه الطريقة نضمن جودة الخدمة المؤداة.

## احصل على المزيد من: الابتكار

تولى R&M اهتماما كبيرا بالبحث والتطوير. على مدى أكثر من 50 عاماً، قمنا بتجميع الكفاءات و الإختصاصات في مجالات التقنية ذات التردد العالي و الألياف الضوئية. يعتبر هذا الأمر بمثابة أساس فريد من نوعه بالنسبة للإبتكار المستمر.

إننا نشارك في وضع وصياغة الكثير من المعايير الدولية وندرك التوجيهات في مرحلة مبكرة. إن قربنا من شركائنا يمكننا من تطوير منتجات و حلول وخدمات مبتكرة تلبى إحتياجات العملاء. إن حلول أنظمتنا تضع المؤشرات بشأن النمطية، تنوع التطبيقات و المرونة. يستفيد عملائنا من الحلول المبتكرة و التي من شأنها أن تغلب على التحديات

المستقبلية.

## احصل على المزيد من: الجودة

إن إدارة الجودة الموجهة الهدف تضمن التحسين الثابت و المتواصل للمنتجات و الخدمات و العمليات الداخلية. إن شركاء R&M في جميع أنحاء العالم يستفيدون من المعايير العالية لمستوى الجودة السويسرية. تتضح فلسفة الجودة الثابتة و المتواصلة في شهادات معترف بها مثل EN ISO 9001:2000.

إن كفاءة موظفي R&M و خبرة الانتاج للموردين هي اعمدة نظام إدارة الجودة بالشركة. بالنسبة لنا، تشمل الجودة التعامل المسئول مع الموارد و حماية البشر و البيئة.

## احصل على المزيد من: المرونة

تتطلب المهام الخاصة حلولاً خاصة. في مثل تلك الحالات، فإننا نقوم بتطوير منتجات فردية وخدمات خاصة بالتعاون مع عملائنا. إننا نعتبر كباراً بشكل كاف لتنفيذ هذه المرونة في كل مكان بفضل تواجدنا الدولي، و لكننا نعتبر أيضاً صغاراً و ديناميين بشكل كافٍ للتمكن من التفاعل بسرعة و بشكل غير بيروقراطي لتلبية رغبات العملاء.

## احصل على المزيد من: روح الفريق

إننا نعيش روح العائلة في R&M. إن عملائنا يلاحظون هذا الأمر و يستفيدون منه مباشرة. إنهم يدركون ويميزون موظفي R&M عن طريق ميولهم المميزة للعملاء. مع وجود مسارات قرارات قصيرة وطريقة عمل جماعي موجه للفريق، فإننا نقوم بتعزيز مبادرة و إبداع بشكل فردي لفائدة و مصلحة الزبائن.

## احصل على المزيد من: القرب من العملاء

إننا نؤمن بالقرب من عملائنا أينما كانوا. دائماً سوف تجدوننا في الموقع حيث تستخدم منتجاتنا. إن هذا القرب من عملائنا يمكننا اليوم من إدراك الطلبات و التوجهات و التطويرات التي سوف تحرك السوق غداً. بالإضافة إلى إختيار المنتج المناسب، يجب تخطيط و تركيب وتشغيل الكابلات بشكل تخصصي حتى تلبى الشبكة كافة طلبات العملاء. تعتبر هذه الأمور بمثابة عوامل حاسمة تأخذها R&M بعين الاعتبار. لقد أنشأنا شبكة عالمية من شركاء R&M الأكفاء الذين يقدمون النصح و المشورة للعملاء بشكل تخصصي و احترافي و يقدمون الحل النموذجي للوضع القائم.



## مكتب R&M الشرق الأوسط وتركيا وإفريقيا

يقع مكتب R&M في الشرق الأوسط وأفريقيا في المنطقة الحرة بمطار دبي. ومن أجل دعم عملائنا بنجاح استثمرنا في المنطقة إلى حد بعيد وطورنا المستوى الأول من الدعم لصالح

- سلسلة التوريد - السرعة
- التسويق والاتصالات - في المتناول
- الاستشارات والتدريب - الخبرة
- هندسة وتخصيص المشروع - المرونة



مستوى الدعم الأول في R&M الشرق الأوسط وتركيا وأفريقيا الخدمات اللوجيستية والتوريدات

السرعة هي إحدى نقاط القوة الرئيسية من أجل تحقيق أهدافنا في المنطقة. ونحن الآن أكثر كفاءة وقادرون على تقديم هذه الخدمات بفضل فريق التوريدات والخدمات اللوجيستية.



مركز جميع الوصلات المرنة بمكتب R&M الإقليمي

يعتبر خط جميع الوصلات المرنة من R&M هو الأول من نوعه بالمنطقة وله الفضل في تحسين سرعة التوريدات وتلبية احتياجات العملاء. مركز تدريب R&M الشرق الأوسط وتركيا وأفريقيا من خلال برنامج الشريك المؤهل من R&M نوفر لعملائنا المستخدمين والموزعين والاستشاريين ومجمعي الأنظمة برنامج تدريب وتأهيل فريد من نوعه. ويتم التدريب في مركز مجهز بشكل ممتاز واستثنائي بما يوفر التوظيف الجيد والأجواء الملائمة للتعليم.



مركز R&M الجديد للتدريب في الشرق الأوسط وأفريقيا:

من خلال برنامج الشريك المؤهل (QPP) الذي نقدمه لعملائنا الموزعين، المخططين، المركبين ومجمعي الأنظمة فإننا نقدم تدريباً استثنائياً وبرنامجاً معتمداً بشهادات معترف بها. ويتم التدريب في مركز التدريب المجهز بشكل ممتاز واستثنائي بحيث يوفر التوظيف الممتاز والأجواء الملائمة للتعليم



**R&M**  
Convincing cabling solutions

إن R&M كمطور سويسري عالمي ومصنع لأنظمة إتصال عالية الجودة والأداء لشبكات مراكز المعلومات مع تواجد في أكثر من 30 بلداً، فهي تقدم المشورة الجيدة والحلول المصممة خصيصاً لمساعدة مديري البنية التحتية والعمليات من تقديم خدمات موثوقة وفعالة من حيث التكلفة لبيئة تقنية لتكنولوجيا المعلومات على أسس تجارية.

إن استخدام حلول الكوابل ذات الكفاءة الجيدة من R&M يساعد الشركات على التخطيط والحاذة والتلاقى الشامل لشبكات المكاتب ومراكز البيانات وشبكات الاتصالات.

إن أنظمتنا من الألياف البصرية وكوابل النحاس ومرافقة البنية التحتية تضمن المعايير الأكثر صرامة في جودة المنتج. ومع استخدام الوحدات النسخية، وإدارة البنية التحتية الذكية، وسهولة الانتقال لتقنية إيثرنت 40G و 100G يمكن للعملاء الحصول على المرونة اللازمة للتكيف المطلوب لشبكات الكوابل وسهولة التوافق مع أي تغيير يطرأ.

إذا كنت تبحث عن المشورة الموثوقة بها وخدمة مستندة إلى بعد البيع فإن R&M تستطيع المساعدة.

DATA CENTER



يتبنى المقر الرئيسي لشركة R&M منهج العمارة الخضراء



مبنى R&M هو أحد أكبر مباني الشركات والأكثر تقدماً وذو الاستهلاك المنخفض من الطاقة في سويسرا



وكشركة سويسرية رائدة. فإنها تحترم واجباتها حيال البيئة، وذلك تماشياً مع مبادئها الأساسية، حيث تلتزم بمبادرات المسؤولية الاجتماعية المشتركة والحفاظ على الموارد النادرة على الكوكب بطريقة مستدامة، وترى شركة R&M أنه من الضروري توظيف عمليات التصنيع التي تؤثر على البيئة بالحد الأدنى. والتقليل من كمية الخلفات من النفايات، وإعادة تدوير المواد والتقليل من استهلاك الطاقة، أما بالنسبة للإنتاج، فإن الشركة تستخدم مواد صديقة للبيئة والمعتمدة من قبل الإرشادات البيئية الدولية مثل تعليمات حظر استعمال المواد الخطرة (RoHS)، تعليمات وتسجيل النفايات الكهربائية والمعدات الإلكترونية (WEEE)، التقييم، ترخيص وحظر استعمال المواد الكيميائية (REACH).

أحدث مركز للتصنيع والإمداد قامت شركة R&M بتشغيله هو - مكعب R&M - ضمن مقرها الرئيسي في فيتزنكون، وهو دليل على التزامها التام بالمبادرات الخضراء.

كما أن تصميم قطاع إنتاج الطاقة بحد ذاته استثنائي ومذهل، فخلال فصل الصيف، يتم نقل الحرارة الناتجة عن عمليات الإنتاج والتشغيل وتبريد الغرف عن طريق المبادلات الحرارية المحفورة كالأبار إلى نظام تخزين كبير تحت الأرض عبر ألواح مغطاة ومغمورة بالماء، ومن ثم يتم استخدام هذه الطاقة الحرارية المخزنة لتدفئة المبنى في فصل الشتاء، وخلال موسم البرد، يتم تسخين المياه الموجودة في المبادلات الحرارية المحفورة كالأبار بواسطة مضخة حرارية لترفع درجة الحرارة من 12 إلى نحو 36 درجة مئوية لتسخين الألواح المغطاة، وفي فصل الصيف، يتم استخدام هذه المياه والتي درجة حرارتها 12 درجة مئوية لتبريد الغرف، وبهذه الطريقة، يتم خفض انبعاث غاز ثاني أكسيد الكربون بنسبة 90% مما هي عليه في المباني التقليدية.

هذا المبنى الحديث عبارة عن رمز لنهج الإبداع والوعي الاجتماعي الذي يحفز شركة R&M، وهي تخطو نحو عامها 50 منذ بدء أعمالها. وصل عدد موظفي هذه الشركة العالمية 700 موظف متميز. وشهدت نمو في الأسواق العالمية حتى خلال الأزمات الاقتصادية القاسية، وقد حققت ذلك بفضل الشراكة بين التكنولوجيا المتقدمة المستخدمة بالإنتاج ومجموعة المنتجات الرائدة.



المقر الرئيسي

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بينتزنسفراسي 32

سي إتش إي - 8620 فيتزنكون

سويسرا

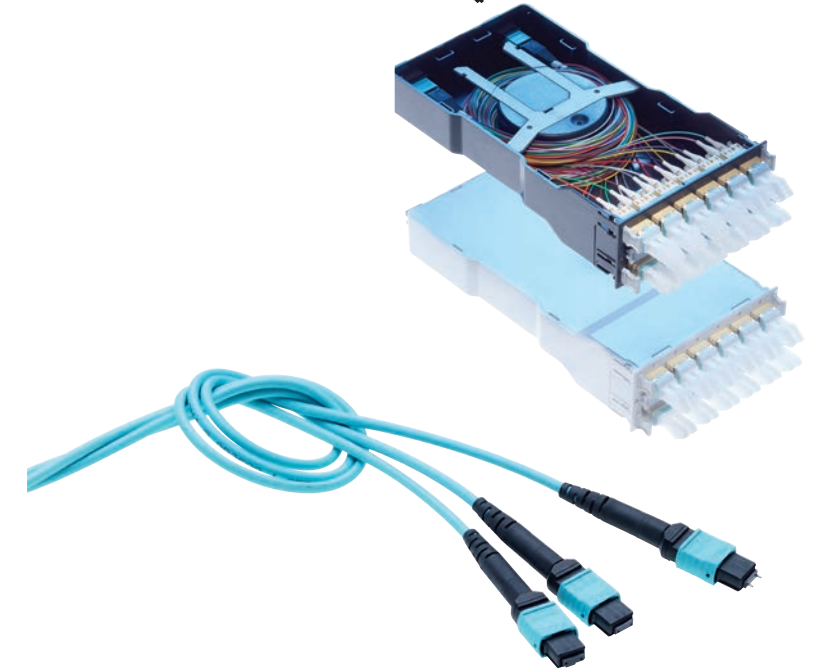
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الموقع الإلكتروني: [www.rdm.com](http://www.rdm.com)



## The HD MTP / MPO System: الطريق السهل إلى 10 و 40 و 100 جيجابت



### مرونة وسلامة واتساق

ان عدد منافذ الشبكة في مراكز البيانات في ازدياد. والكوابل يجب أن تكون مكثفة بشكل كبير للتأكد من أنه يمكن استيعاب تلك الزيادة. وهذا بدوره ينطوي على تحديات كبرى للبنى التحتية للاللياف الضوئية.

ويتيح نظام كوابل HD MTP لمراكز البيانات ان تصل إلى هذا الهدف بشكل أسرع. وهذا النظام المتعدد الألياف يضع معايير لتلك الكثافة وكفاءة استخدام المكان. والمرونة والسلامة وكذلك لتخطيط وتركيب مناسب، ووحدة HD MPO هي المنتج الأساسي وهي تعد منصة توصيل للمستقبل والذي بدوره يسهل عمليات الترقية بكفاءة

### استخدام كفء للمكان

سرعة عالية في مكان صغير  
ترقية سهلة لسرعات 40 و 100 جيجابت  
طريقة توصيل S الذكية  
نظام نمطي سهل التدرج

### الكفاءة، والأمن، والربحية

R&MinteliPhy يفتح حقبة جديدة لمديري الشبكات. الآن. يمكنهم إدارة البنية التحتية بكفاءة وبطريقة أوتوماتيكية بالكامل. لا حاجة لكوابل خاصة ولا لوحات جميع جديدة. المذكرات الورقية أصبحت أشياء من الماضي. وكذلك الإدارة الصعبة للجداول. بواسطة R&MinteliPhy يمكن لمراكز البيانات تحسين فوري لدى استخدام القدرات المتاحة والربحية ومدى توافرها. مديري تكنولوجيا المعلومات يمكنهم الآن السيطرة على جميع الخارج وأكثر من ذلك. وذلك لأن R&MinteliPhy يساعد على التحليلات والتوثيق. مع إدخال عمليات موحدة ومع كافة مهام إدارة نموذجية للبنية التحتية.

مدير ومراقب R&MinteliPhy هما الركينزتان لحلول AIM من R&M (الإدارة الالية للبنية التحتية).

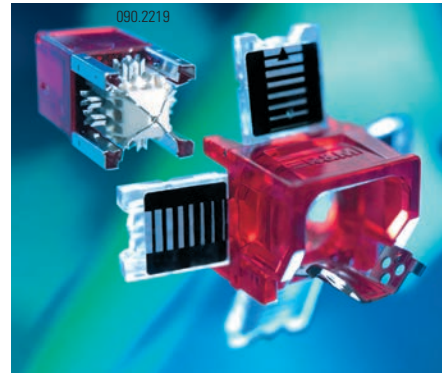
يتكون مراقب R&MinteliPhy من عدد قليل من المكونات التي يمكن تحديثه وتعديله: مثابك RFID للوصلات المرنة. الواح حساسة للوحات التجميع والمحللات لخزانات الشبكة. مدير R&MinteliPhy هو الحل العميل الخادم مع قاعدة بيانات مركزية مثبتة على خادم في شبكة الاتصال المحلية أو متاحة كخدمة سحابية مع العديد من وظائف التوجيه والتخطيط و مكتبات واسعة النطاق



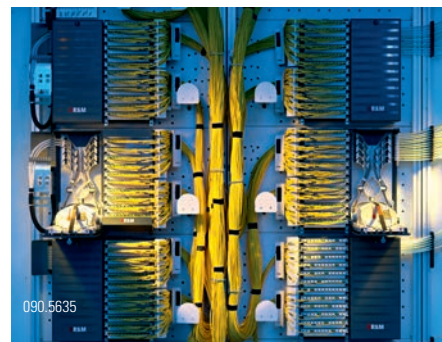
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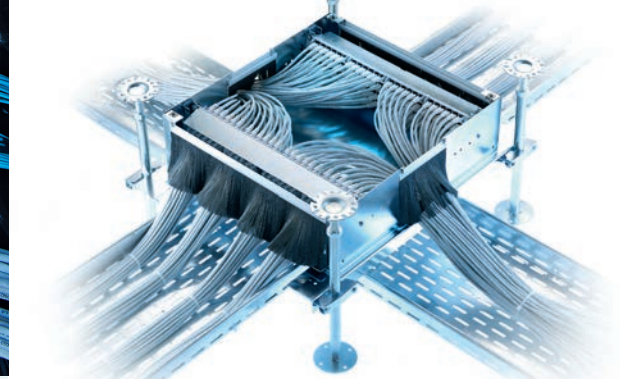
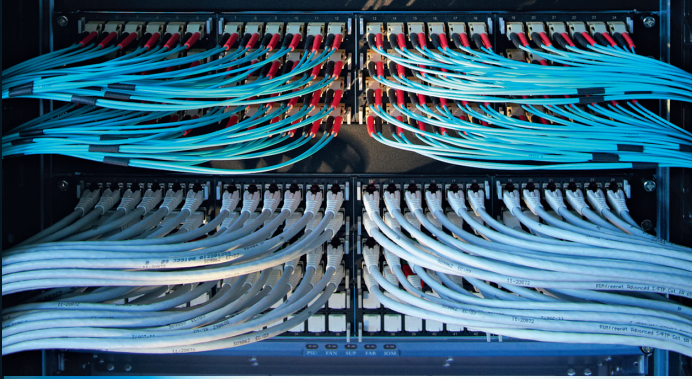
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## كتالوج المنتجات للشرق الأوسط، تركيا و أفريقيا



حلول الكوابل  
كوابل المكتب ومراكز المعلومات

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