

Systems with a future



CLASSICsystem, STARsystem, VISIONsystem
Modular cabling system for voice, data, and video applications

R&M – a decision with a future

PACEMAKER OF THE COMMUNICATIONS TRADE

A perfect communications system must be modular and flexible in design in order to meet future requirements. Just as important are network availability, investment protection and ease of installation and maintenance. The R&M cabling system ensures that the vision of unlimited communication becomes reality for everyone.

READY FOR THE FUTURE

The volume of communication is constantly growing; bandwidth requirement is doubled every 100 days, infrastructures need to be ready for the ever-increasing quantities of data. R&M provides innovative solutions to prevent transmission bottlenecks in the long term.

READY FOR SPEED

R&M develops and provides key components for the fast growing information technology market. Our products connect entry and exit communications cable at the nodes of the networks. Adaptability is vital and an advantage that we can guarantee, being a flexible and independent family enterprise. Compared with large, unwieldy corporations we have distinct competitive advantages.

CONVINCING CABLING SOLUTIONS

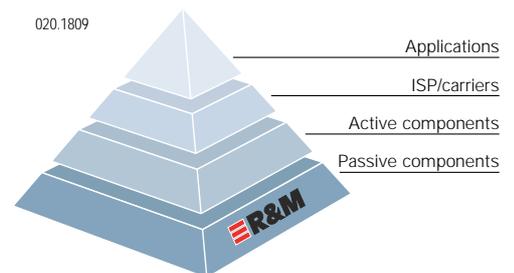
Since the founding of the company in 1964, cabling technology has been our core business. "We don't do anything that others can do better" is our proven philosophy. This is how we have established ourselves as supplier of top quality cabling solutions in enterprise and carrier cabling. We will make good use of our experience in positioning ourselves in residential and industrial cabling, two important segments of the future.

FUTURE TECHNOLOGY FOR COPPER AND FIBER OPTIC

Network failures cause enormous costs. 70% of all communication disturbances trace back to layer 1. R&M prevents such problems occurring by supplying top-quality products, which also meet the demands and requirements of the future. In this way, customers can avoid costly breakdowns and protect their investments.

ONE-STOP SHOP

In strategic partnerships and cooperations R&M develops customer-oriented overall solutions for data networks. Thanks to these first-rate partner enterprises from layers 1-4 we can ensure demand-specific evaluation and implementation for our customers.



Simplified OSI layer model



CARRIER CABLING

R&M combines decades of experience and innovative dynamics. Our overall solutions are based on a demand-driven synthesis of products, systems and services. We develop and realise individual solutions for carriers.

Among our customers are international and national telecom companies, numerous regional network operators and city carriers. We maintain close contact with these companies who appreciate our flexibility. Not being restricted by any complex corporation structures and being an independent enterprise allows us to act fast and meet customers' demands efficiently and individually. In this way specific solutions are created, results of our experience of many years. Get your added value, too.

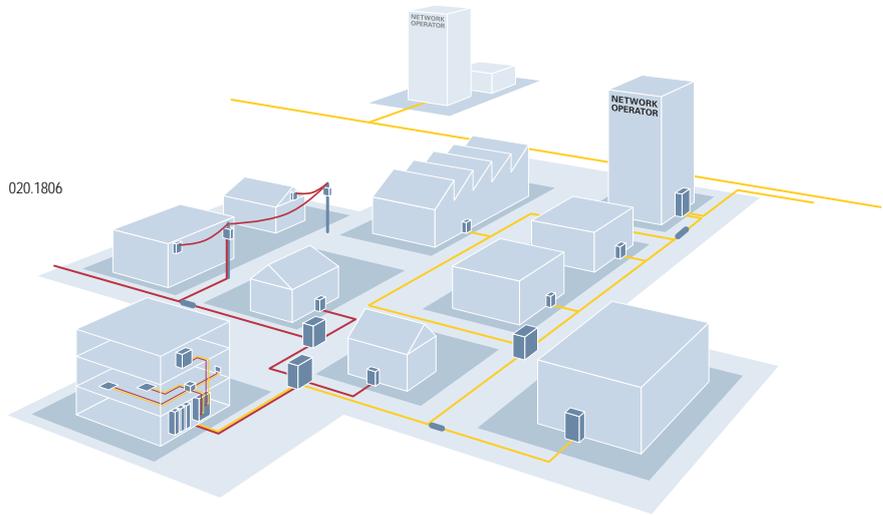
Network security is particularly important for carriers. R&M systems increase network security through convenient installation and easy maintenance, both factors supporting interruption-free network operation. Your investment is protected. And thanks to the modular design you are ready for gradual network development or expansion, and your infrastructure is ready for all future requirements!

FIBER OPTIC SYSTEMS

R&M has acquired comprehensive core competences in fiber optic technology. Today, we supply distributor and connector technology for future-proof transmission channels to the whole world.

COPPER DISTRIBUTION SYSTEMS

Be it conventional telephony or high-speed data transmission via ISDN and xDSL – R&M provides the exact distribution components you need. Take advantage of our vast experience in IDC technology (Insulation Displacement Contact); you will benefit from one of the most substantial and extensive product ranges on the market.



Flexible system solutions for carrier, enterprise and residential cabling.

Our experience is your added value

TAILOR-MADE SOLUTIONS AT ATTRACTIVE PRICES

Our overall solutions are based on a demand-driven synthesis of products, systems and services, perfectly combining our many years of experience and dynamic innovation.

RESIDENTIAL CABLING

Here, the future growth market of multimedia networks in private homes is addressed. These cabling solutions combine all the different applications of telephony, data, TV, radio etc. in one universal infrastructure with a distribution centre.

INDUSTRIAL CABLING

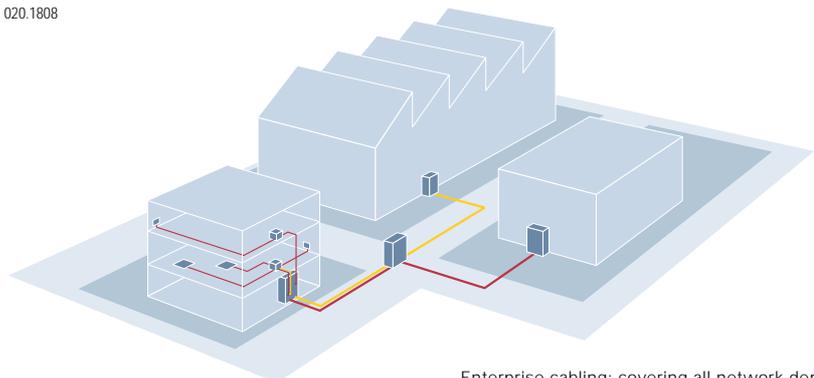
Industrial networks place extremely high demands on connector and distributive technology. We therefore developed special solutions such as plug connectors for highest mechanical loads, fully protected from environmental effects.

ENTERPRISE CABLING

The modular cabling system, featuring components for both transmission media optical fiber and copper, provides voice, data, and video applications for any type of enterprise – from large corporations to small offices. Our system for enterprise cabling ensures boundless flexibility for future expansions, meeting future requirements today already.

We provide distributors with complete solutions in modular design, comprehensive and innovative marketing support plus a customer-oriented partnership. The installer appreciates the advantages included, i.e. ease of installation of R&M products, compliance with the most stringent Swiss quality

020.1808



Enterprise cabling: covering all network demands in SOHO, LAN, and campus cabling

standards regarding system dependability plus the supplied, effective product training.

For end-users of LAN applications the crucial points are the lifetime warranty, the state-of-the-art system solutions for all segments – CLASSICsystem, STARsystem, and VISIONsystem – the absolute dependability for all levels of operation plus the convenient expansion options thanks to their modular design.

Planner and consultants opt for R&M products because they appreciate the professional planning and documentation tools supplied by R&M as valuable support in their decisions. Regular product training and engineering support from our experienced in-house and field service experts round off the service package.

We have gained considerable ground in the OEM sector, too. We already supply our competitors with a vast number of products developed and manufactured by us. We work with fully automated state-of-the-art production facilities with high output and under permanent quality assurance, ensured by visual and electronic testing.

EXTENDED OFFICE CABLING

Demands on the infrastructure of modern work environments are increasing. Designing cabling solutions today must go beyond the individual outlet and the fixed network. Power supply, telecommunications and data lines are being brought closer together in order to meet the more complex requirements at the workplace. The users require more flexibility, more convenience, and more mobility.

With the Extended Office Cabling programme, R&M has developed a comprehensive solution – covering the entire and systematic workplace provision. We integrate LAN, bus and power supply cabling in order to keep all connections for data, communication and power permanently and highly available in the ever-changing application situation. Particularly, temporary workstations in dynamic business sectors, with their high communication traffic, are set up more easily. When there are spatial or organisational modifications the connections are quickly adapted, in a few easy steps, and without any losses in security or transmission rates.

INNOVATIVE AND MODULAR PRODUCT RANGE

The Extended Office Cabling product range includes innovative and modular components for both data and communications networks, and even for power supply cabling. Another integral part is the complete R&M warranty programme for LAN and SOHO applications. The enhanced product range includes the Cable Outlet and the cable management systems. Further highlights are connection boxes to be individually equipped at the desk, connection options for wall ducts, raised floors and consolidation points.

090.2033



RCO Power allows fast termination to a round cable

The decision is all yours

SELECT YOUR OPTIMAL CABLING INFRASTRUCTURE

R&M offers you three clearly structured, and intelligently designed systems, covering a vast range of customer segments and requirements, giving you the greatest freedom for finding the optimal, future-oriented solution for your enterprise, fast and efficiently.

GENERIC CABLING SYSTEMS

R&Mfreenet *CLASSICsystem* and *STARsystem* base on generic, structured cabling systems, with a floor distributor on each floor, connected to the building distributor over fiber-optic or copper cables. Workplaces and floor distributors are connected over multi-functional copper cables, suitable for data, voice and video transmission.

The results are cabling options that fulfil all current demands on flexible workplace design.

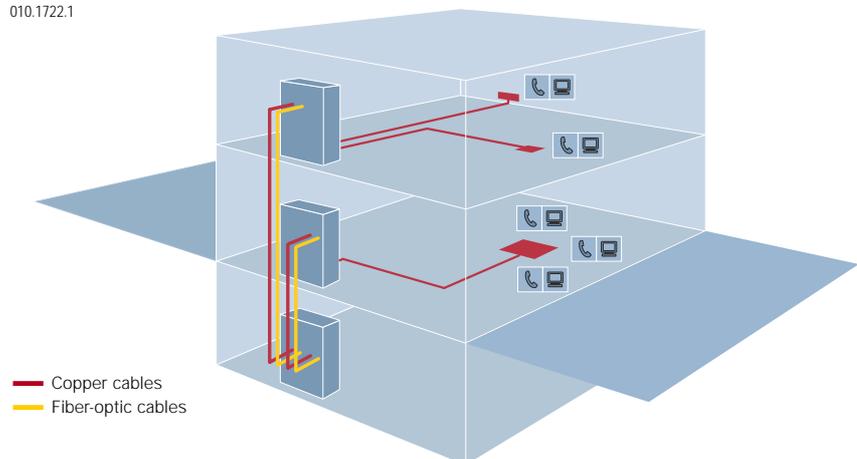
COLLAPSED BACKBONE SOLUTION

The R&Mfreenet *VISIONsystem* is a collapsed backbone solution, where individual floor distributors are dispensed with. From a central point of administration all cables lead directly to the individual workplaces. Various cable types can be used for voice and data, as required by the customer.

EXTENDED GENERIC CABLING SYSTEMS

Extended generic cabling systems can provide additional installation possibilities by integrating consolidation points, MUTOs or small distributors.

010.1722.1



Generic, structured cabling systems as provided by the *CLASSICsystem* and the *STARsystem*

EXTENDED BACKBONE

The VISIONsystem can also be set up as extended backbone. This cabling structure also dispenses with floor distributors, and the cables are led directly to the workplaces from the floor distributor. In the workplace sector R&Mfreenet small distributors are used, ensuring very flexible workplace settings.

All systems are type-approved by independent, acknowledged test laboratories and base on the international standard ISO/IEC 11801 (2nd edition), the European EN 50173 (2nd edition) and the American EIA/TIA 568B.

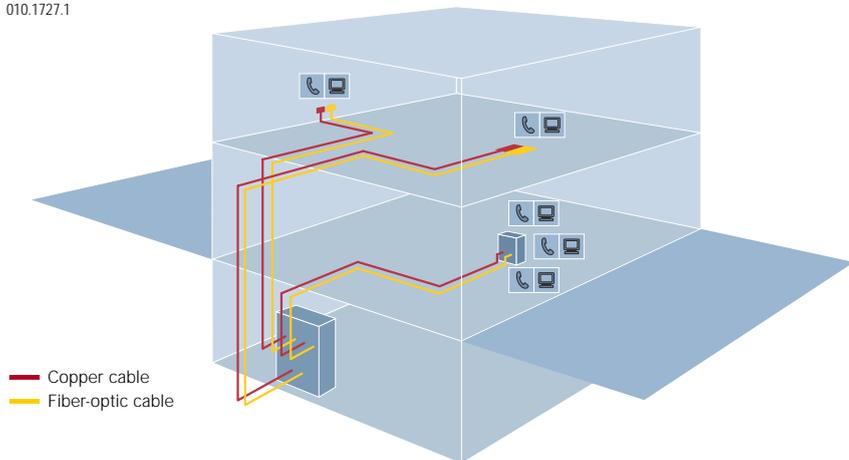
PERMANENT DEVELOPING PROCESS

With our state-of-the-art manufacturing technology we guarantee highest product quality, which translates into highest reliability for our customers. All manufacturing facilities are equipped with integral test and measuring systems of the latest generation. Always eager to learn, we permanently work on improving our production and logistics. Our experience of many years, our engineers' know-how, our commitment to quality leadership, current market requirement and the feedback we get from our customers have shaped this process. We assume the same creative dynamics in our suppliers.

WIN-WIN SITUATION

Developing, manufacturing and distributing our components, system solutions and services at market-defined prices contribute to our success and our market partners' efficiency. On the foundations of this partnership emerges a win-win situation that is characterised by longevity and mutual respect – a real added value to our market partners. Our distinctive innovative drive is appreciated by the public too. Highly qualified experts from our company group take active part in standardisation bodies and expert groups, and help setting standards for the dynamic telecommunications market of the future.

010.1727.1



VISIONsystem – single point of administration both for collapsed backbone (2nd floor) and extended backbone (1st floor)

An answer to every need

THREE SYSTEMS AND NO END TO THE POSSIBILITIES

The R&Mfreenet LAN solution consists of three different sub-systems. Each of these systems provides optimal solutions for a particular customer segment and customer requirements. This division allows our customers to get a clear picture and to find the right solution quickly and easily.

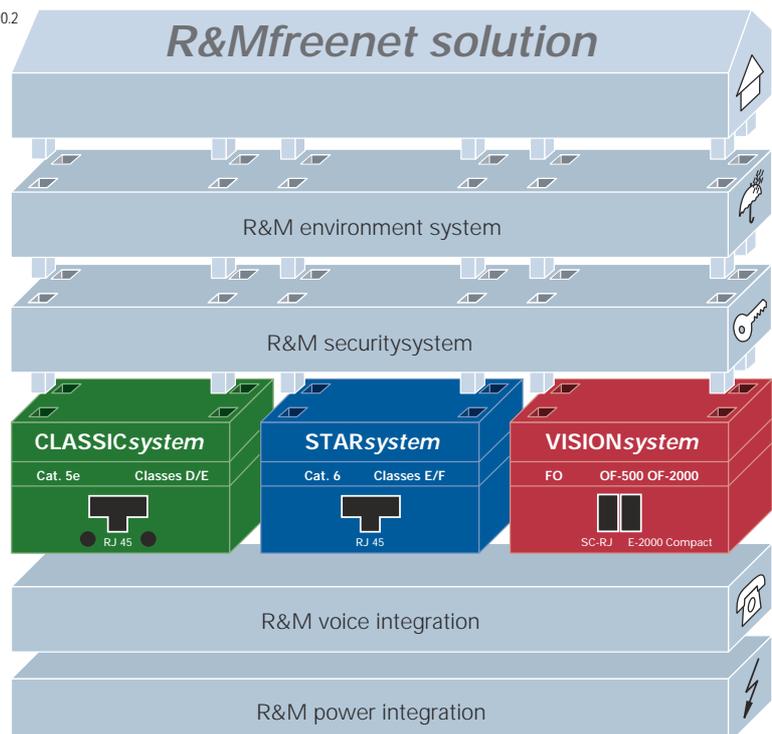
CLASSICsystem

The components used are shielded or unshielded Cat. 5e components. The CLASSICsystem's distinctive advantages are the exceptional cost-performance payoff, the high mechanical stability of all components and the convenient coding. The CLASSICsystem is ideal for small and medium-sized companies, for file and application sharing and the daily Internet access.

STARsystem

The added value for you are higher bandwidth, increased performance and reliability. At the same time it is backward-compatible with Cat. 5 and Cat. 5e. Further advantages of the STARsystem are its compatibility with future standards plus high mechanical and electrical long-term stability.

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The STARsystem is ideal for highly specific customer segments such as banks, airports, and multimedia companies, for whom a future-proof IT infrastructure is absolutely vital. And they need permanent network availability for time-sensitive data transmission, e.g. for real-time applications such as Voice over IP or video communication.

THE VISIONsystem

The advantages of our fiber-optics-based VISIONsystem are self-evident: no trouble with earthing or electromagnetic compatibility and, because of the equipment's lower space requirements, less access and climate control costs. The single, central patch panel helps reduce installation errors and thus servicing costs. And finally, administrative costs are generally lower too.

Among our typical VISIONsystem customers are service providers and telecom network operators who value flexibility because they grow quickly, have to rearrange workplaces often, plan today for multimedia and the technologies of tomorrow, and wish to take full advantage of fiber optics.

The three LAN systems			
	CLASSICsystem	STARsystem	VISIONsystem
Cabling structure	generic extended generic	generic extended generic	collapsed backbone extended backbone
Medium	horizontal: copper backbone: fiber optics	horizontal: copper backbone: fiber optics	data: fiber optics voice: copper
Transmission category	De/E (2 connectors)	E / F (2 pairs)	OM1, OM2, OM3, OS1
Connection module	Cat. 5e (RJ45) ¹⁾	Cat. 6 (RJ45) ¹⁾	data: optical voice: Cat. 5e
Patch cords	Cat. 5e (RJ45) ¹⁾ /Cat. 6	Cat. 6/7 (RJ45) ¹⁾	data: optical voice: Cat. 5e
Installation cable	Cat. 5e ¹⁾ /Cat. 6	Cat. 6/7 ¹⁾	data: optical voice: Cat. 3/5/5e
Gigabit Ethernet	Yes	Yes	Yes
10 Gigabit Ethernet	Yes ²⁾	Yes ²⁾	Yes
Components tested by independent lab	Yes	Yes	Yes
Channel/link tested by independent lab	Ja	Ja	-
Warranty	20 years	20 years	20 years
Performance characteristics	optimum cost-benefit ratio	future-proof thanks to increased bandwidth	cost benefits thanks to central administration

¹⁾ shielded or unshielded versions available

²⁾ according to draft standard IEEE

Live generously

OPTIMUM COST-BENEFIT PAYOFF

The R&Mfreenet CLASSICsystem is a generic cabling solution in accordance with the internationally recognised Categories 5 and 5e as well as Class De, with an optimum cost-benefit ratio. Now also available in transmission performance Class E.



The distinctive feature of this LAN cabling architecture is that it uses a generic Class De cabling system on copper basis for the horizontal cabling, between floor distributors and workplace outlets. With the CLASSICsystem, Class De channels with up to four plug connections and Class E channels with up to 2 plug connections, can be realised. Because it is a generic cabling system you are free to transmit voice or data. Depending on the electromagnetic protection requirements shielded or unshielded Cat. 5e components can

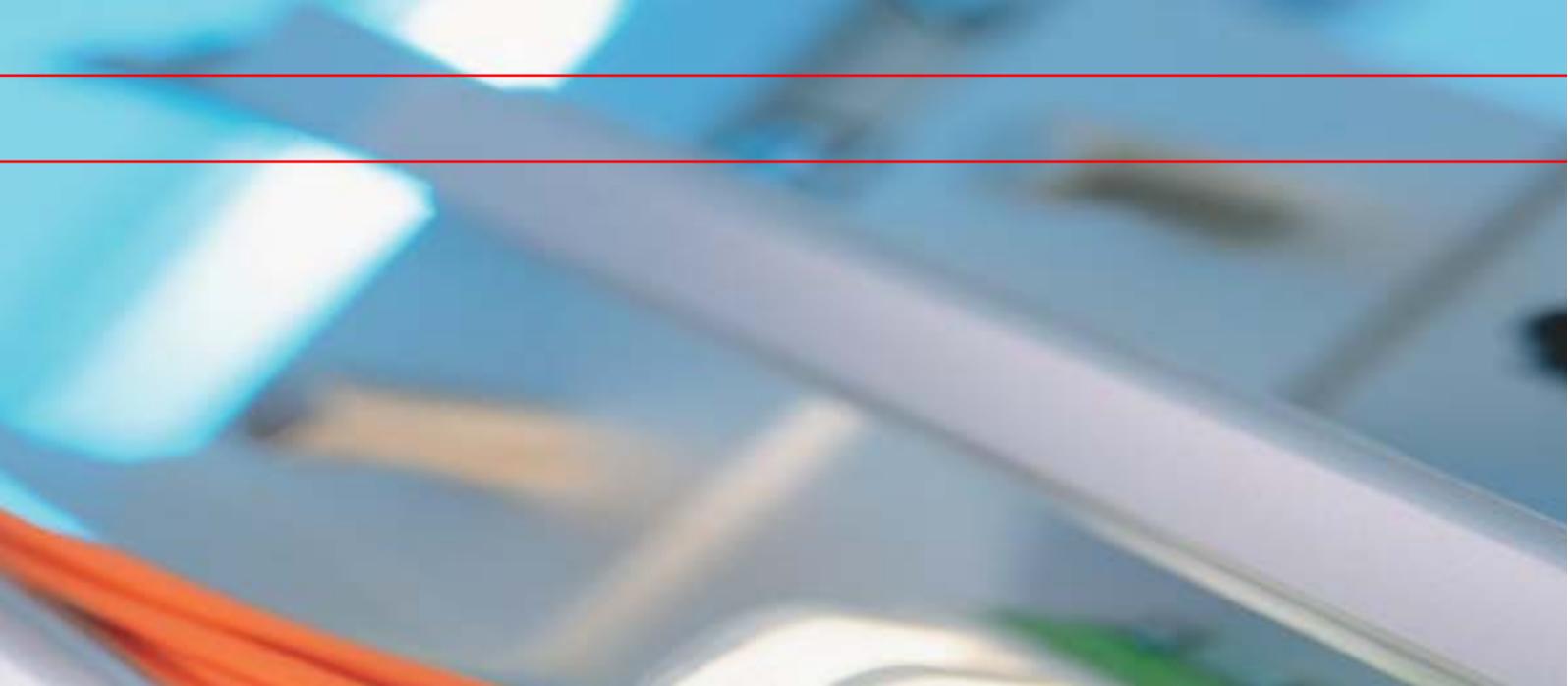
be used. In the backbone sector, linking individual floor distributors to the building distributor, data is transmitted via fiber-optic cables and voice transmission via copper.

The CLASSICsystem is particularly ideal for small to medium-sized companies, providing for all regular network applications such as file and application sharing and daily Internet surfing. Wherever optimal cost-performance payoff and high mechanical stability of the components have top priority this

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The even more spacious new 6-port outlet

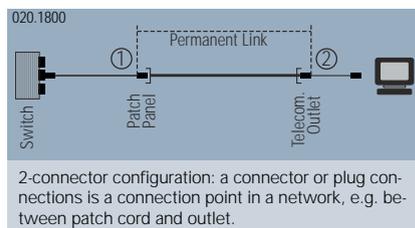


is the system to opt for. Top quality, simple coding, system independence for active components, interoperability, ease of installation and handling plus a comprehensive service programme are further CLASSICsystem highlights.

CAT. 6 WITH CAT. 5E COMPONENTS?

There is some confusion in the market regarding Cat. 6 standards. Often cabling systems reaching transmission performance Class E (250 MHz) in a 2-connector configuration are called Cat. 6 systems even though in most cases they merely combine Cat. 5e connector systems with Cat. 6 or Cat. 7 cables. The R&Mfreenet CLASSICsystem is on a level with these so-called Cat. 6 systems since it also reaches and guarantees Class E in a 2-connector configuration.

The R&Mfreenet CLASSICsystem is based on the European standard in force, EN 50173 (2nd Edition), the international standard ISO/IEC 11801 (2nd Edition), the American standard EIA/TIA 568B.2 plus their amendments. And, the CLASSICsystem can be used for Gigabit Ethernet.



Classes and Categories
<p>Transmission Class</p> <p>Categorisation of generic cabling systems and their transmission performance in accordance with the relevant standards. Indicates the maximum transmission frequency in the channel or permanent link</p> <p>De: 125 MHz, E: 250 MHz, F: 600 MHz</p>
<p>Category</p> <p>Categorisation of components such as installation cables, connection modules, patch cords, used to reach a transmission class. For example: Cat. 5e, Cat. 6. Quite often Class E is compared with Cat. 6 in the market, especially in U.S. terminology, where transmission class and components are generally described as Cat. 6.</p>

	CLASSICsystem			
Version Class	U/UTP De/E ¹⁾	F/UTP De	SF/UTP De	S/FTP E ¹⁾
EMC protection	low	medium	high	high
Installation cables				
Category	5e/6	5e	5e	6e
Patch cables				
Category	5e/6	5e	5e	6
Connection module				
Category	5e	5e	5e	5e
Gigabit Ethernet	yes	yes	yes	yes
10 Gigabit Ethernet	yes ²⁾	yes ²⁾	yes ²⁾	yes ²⁾

¹⁾ 2 plug connections in the channel
²⁾ according to IEEE draft standard

Tomorrow's world today

MORE BANDWIDTH AND MORE SECURITY

The R&Mfreenet STARsystem is your solution for a generic cabling system on the basis of the new transmission classes E and F. With the STARsystem we offer you distinctly more bandwidth and thus more security.

010.2038



TOMORROW'S WORLD TODAY

A characteristic of the STARsystem is the generic Class E cabling on the horizontal level, connecting floor distributors and workplace outlets. The used Cat. 6 twisted pair 4-pair cables are ideal for voice and fast data applications. Depending on the electromagnetic protection requirements all components are available shielded or unshielded.

In the backbone sector, linking the individual floor distributors to the building distributor, data are transmitted using fiber-optic cables while copper cables are used for voice applications.

The heart of this Class E solution is the blue R&Mfreenet Cat. 6 connection module – a true Cat. 6 connection module. It allows significantly more bandwidth, improved performance,

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The blue Cat. 6 connection module sets new standards in bandwidth and performance



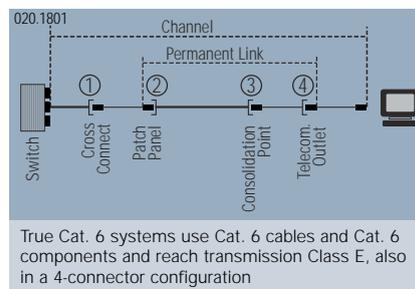
and interoperability with other true Cat. 6 systems, while also being fully backward compatible with Cat. 5 and Cat. 5e standards.

It also guarantees compatibility with future standards, for example the presently planned 10 Gigabit Ethernet standard by IEEE. Further outstanding features are high mechanical and electrical long-term stability and the primary colour blue as effective optical distinction from the Cat. 5e modules.

The STARsystem is ideal for companies that work with large quantities of time-sensitive data. Such data place huge demands on network reliability and availability. One hundred percent network availability is absolutely essential when real-time applications, Voice over IP and video communications are being used. Good examples of sectors that require this system include banks, airports and multimedia companies. With its Cat. 6 components, the STARsystem offers generous bandwidth, high speed and future reliability. Top-quality products, simple and quick installation, an advanced, three-level warranty programme and comprehensive service options go without saying.

R&M STARsystem – THE TRUE CAT. 6 SYSTEM

The true Cat. 6 system for transmission class E featuring true Cat. 6 components. This is the only way to ensure that all defined standards, in particular operability and backward compatibility, can really be achieved! The R&M STARsystem is a generic cabling solution of the transmission Class E,



equipped exclusively with Cat. 6 components. It is tested acc. to TIA/EIA 568B.2-1 and ISO/IEC 11801 (2nd Edition), meaning it guarantees highest performance in accordance with the standards as defined by the relevant standardisation bodies, at the same time offering significant advantages over the regular proprietary systems, which also reach Class 6 but using unspecified components (mostly Cat. 5e connector systems and Cat. 6 or Cat. 7 cables). Both the Class E in the

4-conductor configuration and the Cat. 6 components were tested and certified by an independent lab. R&M's STARsystem is available shielded or unshielded.

	STARsystem		
Version	U/UTP	S/FTP	S/FTP
Class	E	E	F ²⁾
EMV protection	low	medium	high
Installation cables			
Category	6	6e	7
Patch cables			
Category	6	6	6
Connection module			
Category	6	6	6
Gigabit Ethernet	yes	yes	yes
10 Gigabit Ethernet	yes ¹⁾	yes ¹⁾	yes ¹⁾

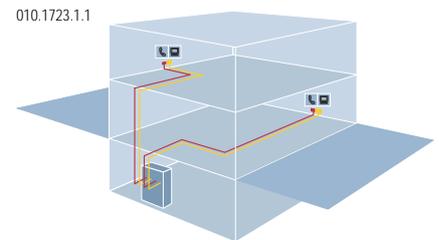
¹⁾ according to IEEE draft standard
²⁾ over 2 pairs

Visions become reality

THE NERVE CENTRE THAT PROVIDES A COMPLETELY NEW PERSPECTIVE

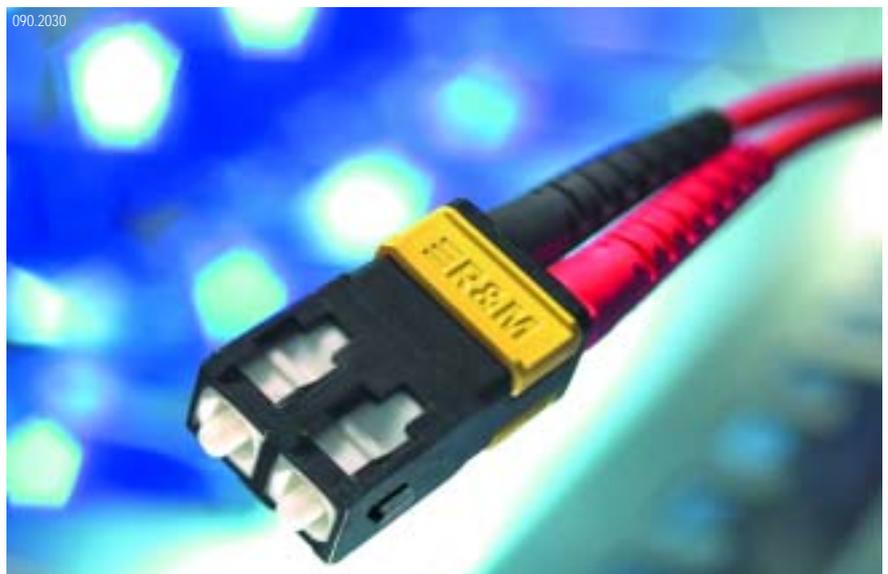
The R&Mfreenet VISIONsystem opens up entirely new perspectives. It already incorporates the by the relevant standardisation bodies today intensely discussed new cabling structures of the future.

As an alternative to generic cabling systems the VISIONsystem provides a LAN cabling solution based on the "single point of administration" concept. Floor distributors are dispensed with and the connecting cables run from a central point on the LAN to each individual connection point. This "collapsed backbone" architecture, as it is known, cuts administration costs to an absolute minimum. Data are transmitted using fiber-optic cables while it is no problem to use Cat. 3 or Cat. 5e copper cables for voice applications.



Collapsed backbone, fiber to the desk (FTTD)
— Copper cables — Fiber-optic cables

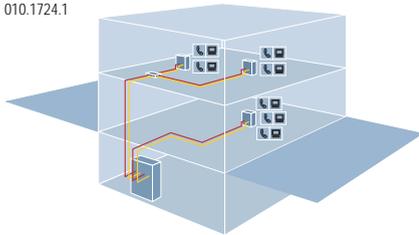
In addition to the collapsed backbone architecture, the VISIONsystem can also be realised as "extended backbone architecture". Here several workplaces



SC-RJ: excellent transmission characteristics of the highest quality

are pooled into one fiber-optic cable through an active network component. Voice integration can be run parallel, over a copper multipair cable. This "open office" structure optimally combines the advantages of flexible cabling for the working area with the fiber-optic "single point of administration" structure.

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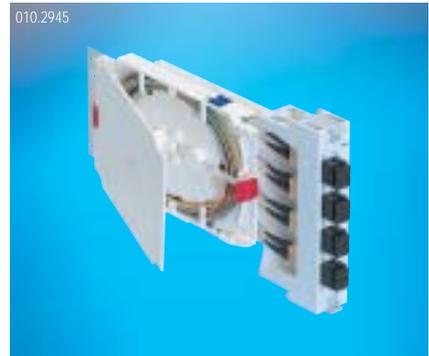
Extended backbone, fiber to the office (FTTO)

— Copper cables — Fiber-optic cables

The VISIONsystem is particularly attractive for rapidly expanding companies that wish to start using the multimedia and technologies of tomorrow today: companies permanently confronted with the problems of growth and migrating workstations which require maximum flexibility. Good examples are service provider or telecom network operators.

The advantages of the VISIONsystem are self-evident: it dispenses with equipment rooms, therefore reduces expenses for space, access and climate control. The single, central patch panel helps reduce installation errors and thus servicing costs. And finally, administrative costs are generally lower. Further advantages are the speed of optical fibers as transmission media, easily complying with the Gigabit Ethernet standard. The VISIONsystem's capacity already includes future 10 Gigabit Ethernet applications. Furthermore, the system spares you any problem regarding electromagnetic compatibility and earthing (data over FO).

010.2945



The SC-RJ four-channel module for cost-effective, optical expansions of existing copper cable installations

	VISIONsystem		
Version	(MM/SM)	(MM/SM)	Language
Class	OM1-3, OS1	OM1-3, OS1	
EMC protection	very high	very high	
Installation cables			
Category	F0	F0	5e
Patch cables			
Category	F0	F0	5e
Connection module			
Category	F0	F0	5e
Gigabit Ethernet	yes	yes	
10 Gigabit Ethernet	yes	yes	

No worries for the future

BE ON THE SAFE SIDE

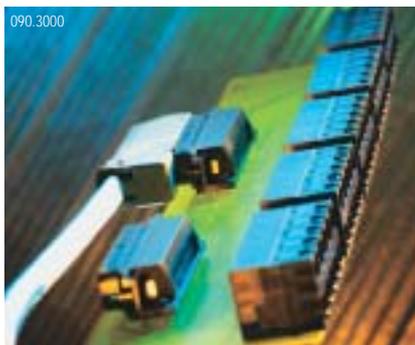
Our systems are excellently equipped with outstanding features and many extras regarding security and protection. They take care of future requirements today.

INNOVATIVE CABLING CONCEPT WITH R&M'S VOICE INTEGRATION

With LAN based PBX systems intelligent connections between PC and phone can be realised, which are also known as CTI (Computer Telephony Integration). In most of the PBX systems there are matching jacks on the mother board or on the insert cards, for example Telco 50p. R&M offers the matching counterpart on the cabling side. Based on the successful voice integration panel with up to 50xRJ45 on 1U, R&M has expanded its product range with various PBX-suitable connection modules. As a result, a PBX can now be swiftly and easily put into operation, dispensing with the need of actual cabling work (plug and play).

COMPREHENSIVE SOLUTIONS FOR OFFICE WORKPLACES

The Extended Office Cabling product range provides a comprehensive programme for reliable and highly flexible connection solutions in the sector of office workplaces. It integrates communications, data and power cabling in the installation planning phase already. The product range features modular systems for raised floors, wall ducts, consolidation points and for the cable management going up to the desktop. Extended office cabling ensures that all power and network access connections are available and protected at all times – even in the case of constantly changing application situations and applications at permanent workplaces or temporary workstations with high demands on communications and information exchange.

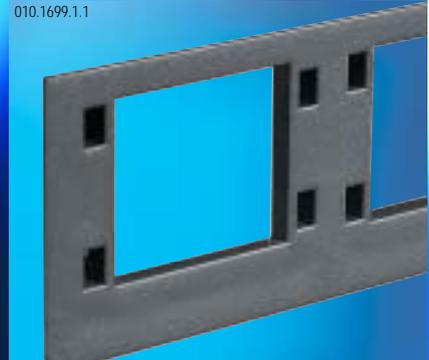


090.3000
Smooth PBX integration in structured cabling systems



010.2388
Deskbox with data- and communication ports, power outlets and switchers

010.1699.1.1



R&M SMARTHOLES

Thanks to the four R&M Smartholes, which are integrated in our products, the cabling systems offer the unique capability of completely covering different security requirements of our customers. The whole system allows a quick and easy, tool-free conversion or retrofitting to our constantly expanded security and environmental product range.

R&M SECURITY SYSTEMS

Minor ingredients are often crucial. In 70% of all the cases of network problems, cables and connectors can be the source of error. The origin may be small, but the results are often dramatic. Especially for companies that absolutely depend upon reliable data and voice transmission, as for example emergency call centres, hospitals, or banks and stock exchange. In order to prevent the error occurrence in cabling altogether, R&M has tackled the matter and developed an equally simple and convincing three-level security system.

Security level 1 supports the correct connecting of patch cables by means of optical, colour coding. This colour coding is quite simply attached to the connecting cables and the connection points.

010.2985



Left: Security Level 3 with the Fiber Guard
Right: Security Level 3 with the Plug Guard

Security level 2 ensures security on a mechanical level, meaning it is physically impossible to connect a cable to an incorrect connection point.

Security level 3 takes security and protection even further: the added protective sleeve (Plug Guard) can only be removed with the matching key. Erroneous unplugging of cables is simply made impossible. There is an additional special feature for the connecting cables, namely the Safe Clip in signal colour, preventing any erroneous unplugging as well. Another new addition to the product range is the plug-in guard (Jack Guard).

PROTECTION AGAINST DAMAGING ENVIRONMENTAL EFFECTS

Today, computer and other intelligent control systems are also used in locations where the surroundings are far from optimal. For example in industrial production, large bakeries, kitchen or restaurants. Locations where dust, dirt, liquids and other damaging environmental influences can affect the quality of connections. Combined with the right outlet, R&M's Environment system protects against dust and water up to IP67 – also with closed connections.

090.2031



SC-RJ IP67: maximum protection in adverse condition, indoors and outdoors

You can always count on us

OUR PRODUCTS ARE JUST THE BEGINNING

Our quality products always go hand in hand with outstanding services in warranty, maintenance, planning and support.



WARRANTY

In a progressive and well thought-through 3-level warranty programme, R&M guarantees a faultless operation of all present network applications such as Gigabit Ethernet, applicable to all three systems.

5-YEAR PRODUCT WARRANTY

R&M products are of prime quality and exceed the performance requirements stated in the standards ISO/IEC 11801 (2nd Edition) and EN 50173 (2nd Edition).

20-YEAR SYSTEM WARRANTY

If only R&M products are used on one LAN cabling system and if they are installed by an R&M certified installer, R&M issues a warranty for a period of twenty years on the transmission link and the R&M products.

LIFETIME APPLICATION WARRANTY ON THE ENTIRE LAN SYSTEM

R&M issues a lifetime application warranty on an entire LAN system if the installation was planned by an R&Mfreenet certified planner, carried out by an R&M certified installer, in accordance with the standards applicable at the time. R&M will make the inspection report of the tested transmission link and then certify the installation.

CERTIFICATION

R&M has all products tested and verified by renowned, independent test lab such as 3P Third Party Testing, SGS, Delta, GHMT or UL. Their tests not only focus on electrical values but also on the long-term behaviour of the individual components and systems.

WWW.RDM.COM

Here you can find up-to-date product information, catalogues, technical specifications, white papers and news from R&M to download. Moreover, our partners can log in to a closed user group where they benefit of additional services.

050.1112



FIRST-HAND SERVICE AND INFORMATION

Further highlights are our customer-friendly infrastructure, the latest tools such as interactive CD-ROMs, websites and mailings, clearly structured product catalogues and installation manuals. To keep you abreast of the latest technological developments, we offer regular training sessions, symposia and workshops.

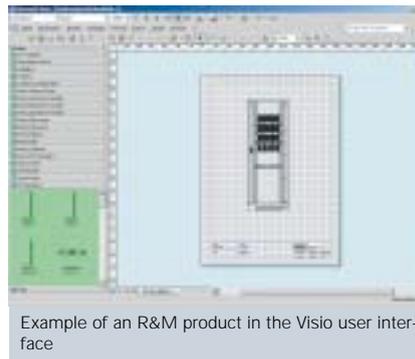
QUALIFIED PARTNER PROGRAMME

You can also count on the demand-specific application support provided by our certified network specialists, who know every detail of R&Mfree-net. Within the framework of our Qualified Partner Programme (QPP) we gladly assist you with any request you may have and answer all your questions within 24 hours. By participating in our QPP courses you gain BICSI CECs (Continuing Education Credits) for RCDD.

R&M PRODUCT SHAPES FOR MICRO-SOFT VISIO®

For all planners and consultants among our customers, R&M supplies an optimal planning and administration tool on the basis of MC Visio. Precise and true-to-detail R&Mfree-net LAN product shapes can be easily and smoothly be integrated into drafts, implementation plans, building plans and other documents. The software lets you draw your very own network in complete accordance with your requirements. Download at www.rdm.com.

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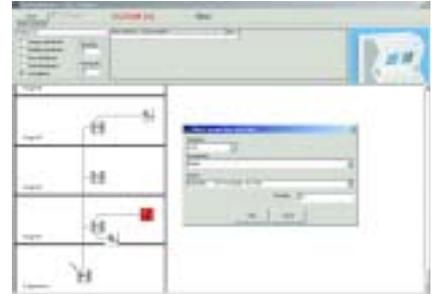


Example of an R&M product in the Visio user interface

R&M NETPLANNER

R&M's very latest tool for all planners and consultants bases on all R&Mfree-net products. The easiest way of planning a building – and nothing gets forgotten.

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Example of a cabling system planned with Netplanner

090.2010.2



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