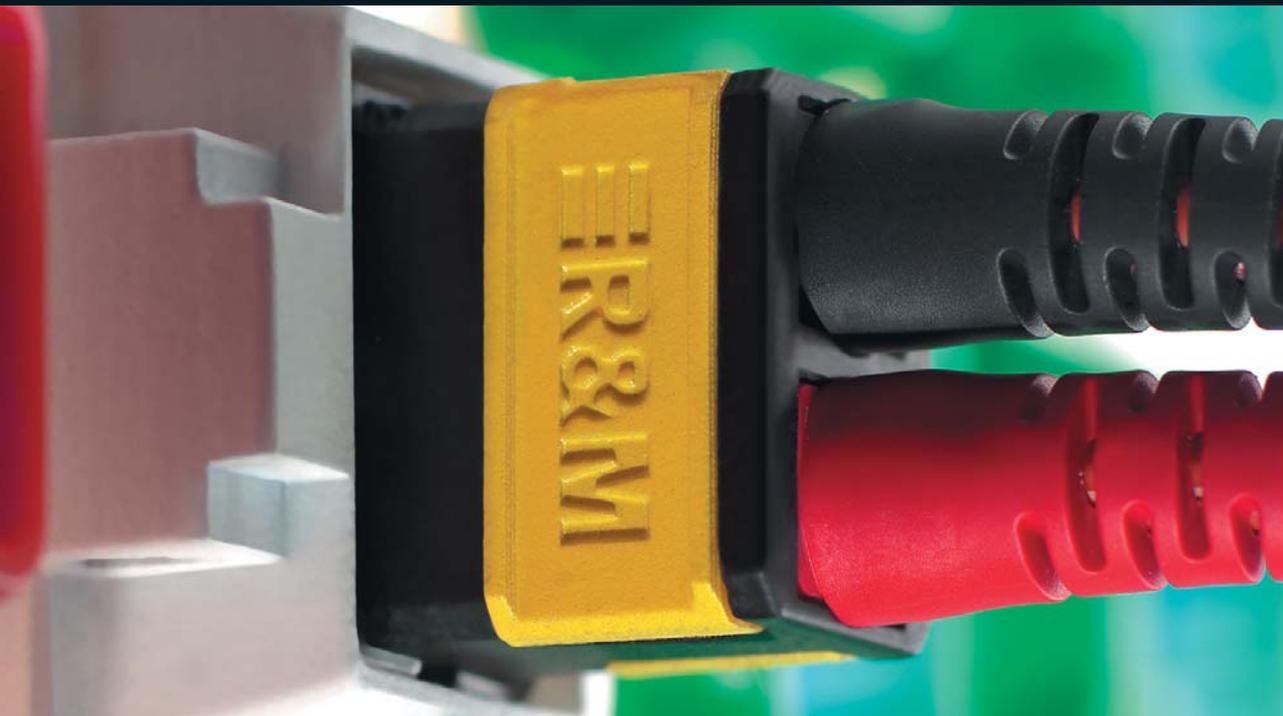




## R&M Security System



Stop data loss! Our unique security system for copper and fiber optic connections prevents misconnections, guaranteeing maximum network availability. It adapts flexibly to meet your specific needs



Convincing cabling solutions

# Closing security loopholes on

## DATA LOSS IS AN EXISTENTIAL THREAT

More than forty per cent of firms that suffer total data loss never recover. Twenty-nine per cent are forced to close down within two years of a crash<sup>(3)</sup>. The causes of such catastrophes very often lie in the cabling infrastructure.

get more

### Better network security

- Mechanical and colour coding prevent network misconnections.
- Locking mechanism prevents unauthorised tampering with connections

### More modularity and flexibility

- Suitable for RJ45 copper and SC-RJ fiber components
- Simple to fit and retrofit, thanks to R&M Smartholes

### Convenient

- Tool-free installation



### AN INSECURE NETWORK IS A THREAT TO YOUR EXISTENCE

You can't afford any failure of your networks. Whether you're a planner, an installer or the person in charge of information technology and data cabling, you know how essential it is to have a reliable, secure infrastructure. Half the firms questioned in a survey calculated that a one-hour network interruption would cause damage costing up to 50 000 US dollars. In sensitive areas, the loss would amount to 90 000 US dollars per hour<sup>(1)</sup>.

The long-term consequences of more prolonged breakdowns on data and communications networks often attain dramatic dimensions. Market transactions, payments, energy supplies, telecommunications, health services, transport, commercial operations and large-scale manufacturing are particularly vulnerable.

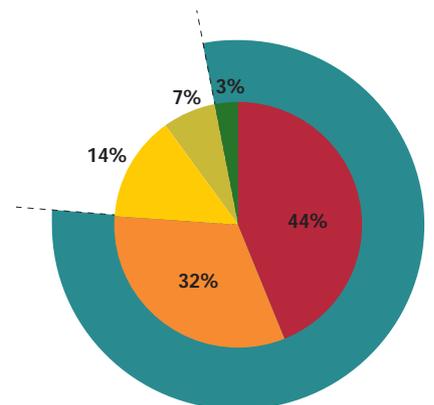
### THE HUMAN FACTOR AND THE LITTLE CAUSES

It's the simple, unspectacular misconnections and human failings that most frequently cause network faults and data loss. Some unauthorised person either inadvertently or negligently removes a connector, fiddles with a cable connection, or plugs a patch cable into the wrong outlet. The damage is done in an instant.

Unbiased studies show that only 7 per cent of data losses are caused by computer viruses, whereas 44 per cent result from hardware faults and 32 per cent from human error<sup>(1)</sup>.

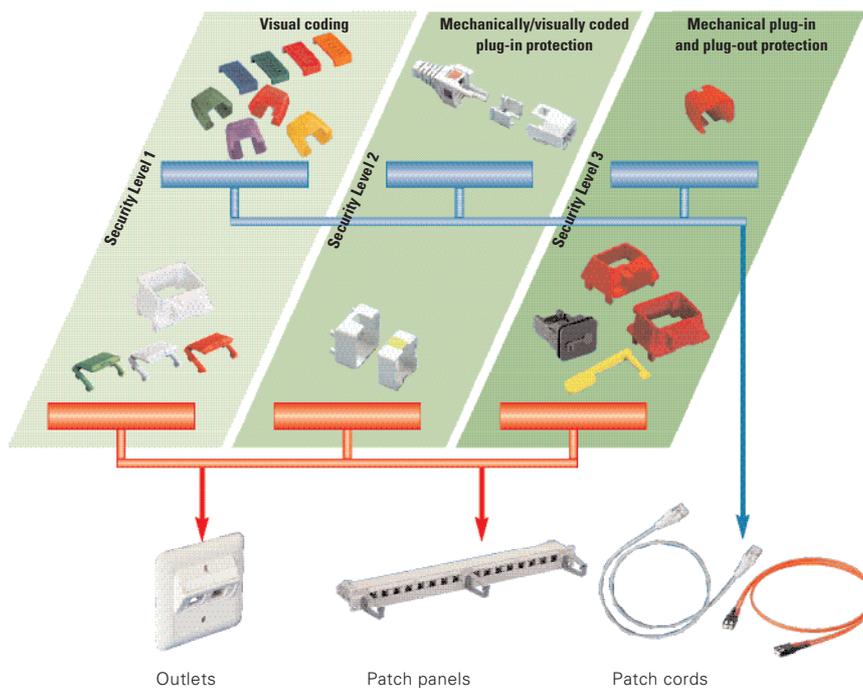
Other studies show that 59 per cent of network problems are directly due to the physical infrastructure and the plug connectors (Layer 1)<sup>(2)</sup>.

### CAUSES OF DATA LOSS AND NETWORK FAULTS<sup>(1)</sup>



- Hardware and system faults
- Incorrect manipulation
- Software faults
- Viruses
- Various external factors; EMC etc.

## THE MODULAR R&M SECURITY SYSTEM AT A GLANCE:



## SECURITY ON THREE LEVELS

This R&M security system offers you three levels of security:

1. visual coding, 2. visual plus mechanical coding 3. intelligent protection with locking mechanisms and keys for authorised persons.

– Security Level 1: visual coding reduces the risk of confusion and assists the proper connection of copper and fiber optic patch cables.

– Security Level 2: mechanical and visual coding redoubles security: misconnection is impossible and the risk of confusion is eliminated.

– Security Level 3: intelligent locking mechanisms prevent unauthorised manipulation. Only trained, authorised persons can make or unmake connections.

## THE WAY TO IMPROVE SECURITY

It's clearly vital to close the security loopholes at unprotected connections. Choose R&M's unique security system, a simple but intelligent solution way to prevent network interruptions, fumbles, fiddles and other frequent sources of error.

## THE SOLUTION FROM R&M IS MODULAR, FLEXIBLE AND EASY TO INSTALL

The R&M security system stands out for its modularity and flexibility. It's based on the «Smartholes» that are built in as standard in R&M's platforms for copper and fiber optic connectors. So outlets and patch panels are already prepared for a secure installation.



# The right product for every security

## CONVENIENT INSTALLATION

You can tailor the flexible, modular R&M security system to suit your needs. The security fittings are easily and quickly installed, and no tool is required. They can also be fitted to R&M platforms and patch cables at any later time.

### SECURITY LEVEL 1

Colour coding for connectors, outlets and patch panels assists the proper connection of cables, reducing the risk of confusion.



030.1507  
Global rack from the R&Mfreenet range, with colour-coded connection points and patch cables

### SECURITY LEVEL 2

In addition to the security features of level 1, Data Safe Lock from R&M – mechanical and visual coding for RJ45 plug connectors – protects mechanically against insertion.



030.1508  
Data Safe Lock from R&M – RJ45 insertion protection with mechanical and visual coding



010.2981  
Fiber optic connection by SC-RJ, and coding with a Colour Clip. With SC-RJ patch cables, you can even assign two colours – one to indicate the fiber type, the other the application

Misconnections and undefined network states are eliminated in advance, sensitive network cards are protected against destruction, and the inadvertent connection of, say, a Gbit Ethernet workstation to an expansion slot designed for a telephone is made impossible.

### SECURITY LEVEL 3

Level 3's mechanical protection against misconnections consists of a locking mechanism. Protective sleeves – Plug Guard and Fiber Guard from R&M – secure the connector in the outlet and can only be released using the appropriate key. Only trained and authorised persons can unmake connections. Inadvertent or unauthorised disconnection of copper or fiber optic cables becomes impossible. Unintentional data losses can thus be excluded. Three colours are available for the Plug Guard, and the Fiber Guard can be fitted in addition with Colour Clips.



The SC-RJ plug connector, moreover, eliminates confusion between input and output and between send and receive directions: it can't be connected the wrong way round.



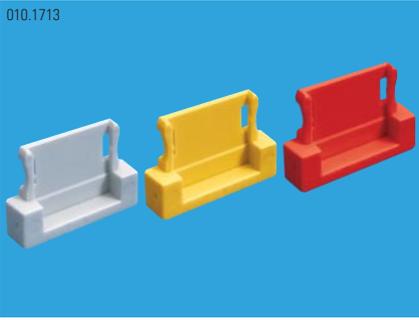
Where individual outlets or outlets are to be protected against the unauthorised insertion of RJ45 patch cables, the Jack Guard is used. This is inserted into the Plug Guard, and similarly can only be released with a special key. It prevents unintentional and unauthorised access to your network.

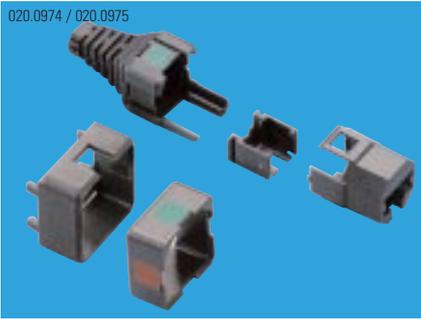
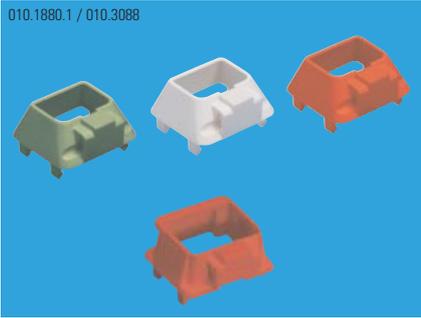
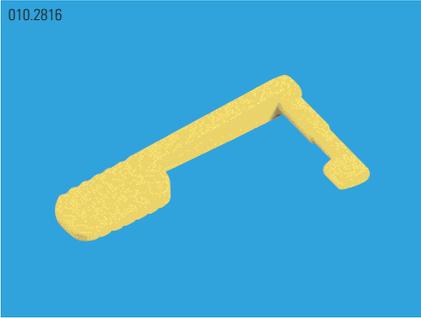
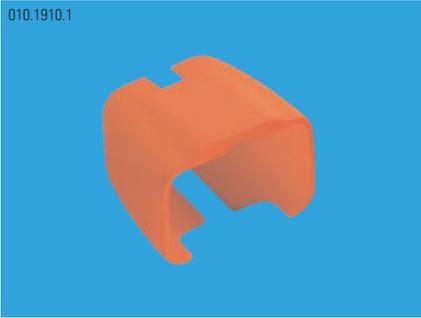


The Safe Clip, with its warning colour, can also be used on RJ45 patch cords. It blocks the unlocking latch of the connector, so preventing its unintentional extraction. The Safe Clip also makes it particularly easy to secure the connecting cables at the active-device end.



**R&M Security System –  
Level 1 Security Products**

Ordering Information	Description	Packing Unit	Part Number
<p>010.1885.1</p> 	<p><b>Hinged Dust Cover</b> Dust cover and colour coding for RJ45 outlets and patch panels. Colour: Anthracite Blue Brown Yellow Grey Green Red Violet White</p>	<p>10 10 10 10 10 10 10 10 10</p>	<p>R305685 R305686 R305687 R305688 R305689 R305690 R305691 R305692 R305693</p>
<p>010.1713</p> 	<p><b>Snap-In Coding Clip</b> Colour coding for snap-in adapter and multimedia outlet. Colour: Anthracite Blue Brown Green Red Violet White Yellow</p>	<p>10 10 10 10 10 10 10 10</p>	<p>R302151 R302152 R302153 R302154 R302155 R302156 R302157 R302158</p>
<p>010.1696</p> 	<p><b>Colour Coding</b> Colour coding for RJ45 patch cable. Colour: Anthracite Blue Brown Yellow Grey Green Red Violet</p>	<p>20 20 20 20 20 20 20 20</p>	<p>R302342 R302343 R302344 R302345 R302347 R302348 R302349 R302420</p>
<p>010.2982</p> 	<p><b>Coding Frame</b> Coding frame for SC-RJ outlets and patch panels.</p>	<p>12</p>	<p>R310216</p>
<p>010.2983</p> 	<p><b>Colour Clip</b> Colour coding for SC-RJ patch cable, Fiber Guard and coding frame. Colour: Anthracite Blue Orange Yellow Turquoise Green Red Violet</p>	<p>12 12 12 12 12 12 12 12</p>	<p>R310145 R310143 R310148 R310142 R310146 R310141 R310144 R310147</p>

Ordering Information	Description	Packing Unit	Part Number
 <p>020.0974 / 020.0975</p>	<p><b>Colour Coding «A» for RJ45 Connectors, anthracite</b> Colour code: blue, red, green, anthracite.</p> <p><b>Colour Coding «B» for RJ45 Connectors, white</b> Colour code: yellow, brown, violet, white.</p> <p><b>Colour Coding «A» for RJ45 Outlets, anthracite</b> Colour code: blue, red, green, anthracite.</p> <p><b>Colour Coding «B» for RJ45 Outlets, white</b> Colour code: yellow, brown, violet, white.</p>	<p>20</p> <p>20</p> <p>20</p> <p>20</p>	<p>R25432</p> <p>R25677</p> <p>R25107</p> <p>R25676</p>
 <p>010.1880.1 / 010.3088</p>	<p><b>Plug Guard</b> RJ45 connection protection for outlets and patch panels. Colour: Green</p> <p><b>Fiber Guard</b> SC-RJ connection protection for outlets and patch panels.</p>	<p>20</p> <p>20</p> <p>20</p>	<p>R304825</p> <p>R304826</p> <p>R304827</p>
 <p>010.2289</p>	<p><b>Jack Guard</b> RJ45 insertion protection for outlets and patch panels (fits Plug Guard).</p>	<p>20</p>	<p>R307199</p>
 <p>010.2816</p>	<p><b>Key for Plug Guard and Fiber Guard</b> Key for Plug Guard and Fiber Guard. Can unlock Jack Guard and RJ45 &amp; SC-RJ connections.</p>	<p>1</p>	<p>R304828</p>
 <p>010.1910.1</p>	<p><b>Safe Clip</b> Lock for RJ45 patch cable. Protects connectors against inadvertent extraction.</p>	<p>20</p>	<p>R304807</p>



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