

The standard for generic cabling



ISO/IEC 11801 – Easy planning and successful implementation of extended generic cabling standard SOHO installations – with R&M.



Convincing cabling solutions

R&M opens new perspectives

ALWAYS NEW, ALWAYS AHEAD

It can't have escaped your attention: New working methods keep appearing, and each time one does, demands on worksites and stations change.

It doesn't matter whether it's job sharing or temporary workstations for sales engineers, meeting rooms with laptop connections and multimedia facilities, or project teams around the globe that work together online – change is fast-paced. And R&M helps you keep up with it.

MORE OPPORTUNITIES

Cabling systems must keep up with constantly changing customer needs. That is why certain international standards have been adapted – for instance redefinition of channels with four plug connections, greater prominence for MUTOs and consolidation points. These changes have created new opportunities and perspectives for you and your customers – financially, organizationally, and in planning terms.

GENERIC CABLING SYSTEMS WITH R&M

For some years now we have expanded and optimized our product range to take full advantage of these new opportunities. For instance, our new RJ45 modules allow you to create Class E channels over four connectors. Cat. 5e or 6 Gigabit Ethernet is just as easy to install using four of our RJ45 plugged connections. Not surprisingly, we are regularly accorded the highest

ratings by independent test institutes because we guarantee that our top-quality products conform to all required standard parameters. And we back them up with a comprehensive, three-stage warranty – one of the best on the market. Bottom line for you and your customers is that their investment is safe for years to come, with security they can depend on and plenty of cabling reserve capacity.

ISO/IEC 11801 –

EXTENDED GENERIC CABLING STANDARD

October 10, 2001 marked the publication of a new, proposed standard for generic cabling systems that facilitates major planning and installation freedoms for the customer's sake. For us at R&M, this "extended generic cabling standard" means taking full advantage of installation opportunities.



Model solutions

FLEXIBILITY IS EVERYTHING

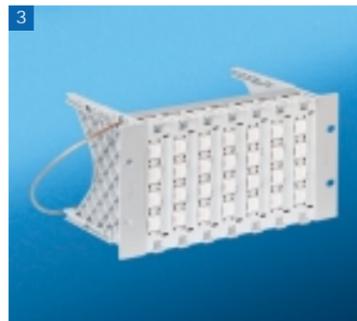
Using the following example of a typical SME, we would like to show how varied your options are for generic cabling systems conforming to the latest international standard. Notice the flexibility that small distributors, MUTOs, consolidation points, desktop outlets and connecting cables of different lengths make possible.



Home wiring
Special solutions for the home combine cable television, high-speed Internet access, other services and a generic cabling system.



10" distribution housings
Manufacturers of distribution housings offer various SME solutions. These SOHO housings, usually based on 10" technology, are fully compatible with R&M patch panels.



10" patch panels
Individual elements are mounted in seconds thanks to R&M's special snap-in feature, which is based on our proven Global patch panel technology.



Available shielded or unshielded

The CLASSICsystem
R&M's CLASSICsystem helps makes installations cost effective. It meets all current data protocols and makes Gigabit Ethernet possible with 4-connector channels.



Available shielded or unshielded

The STARsystem, - system with a future
The future undoubtedly belongs to R&M's Cat. 6 system. Users benefit from comprehensive reserves for future protocols, e.g. Multi Gigabit Ethernet. Our Cat. 6 system opens the door to the future for you and your customers.



Telecommunications outlets
Two to four ports per outlet virtually predestine these outlets for use at individual workstations. Choose from outlets for surface mounting, flush mounting, or channel installations - available in every national standard.



MUTO telecommunications outlets
MUTO telecommunications outlets allow up to 12 connections between workstations and computers, printers, faxes and telephones. Linking them with the network are connecting cables that - allowing for greater flexibility - can be up to 20 meters in length.



Desktop outlets
Various special, R&M module-based solutions are available in the marketplace, including desktop outlets, column systems and others.

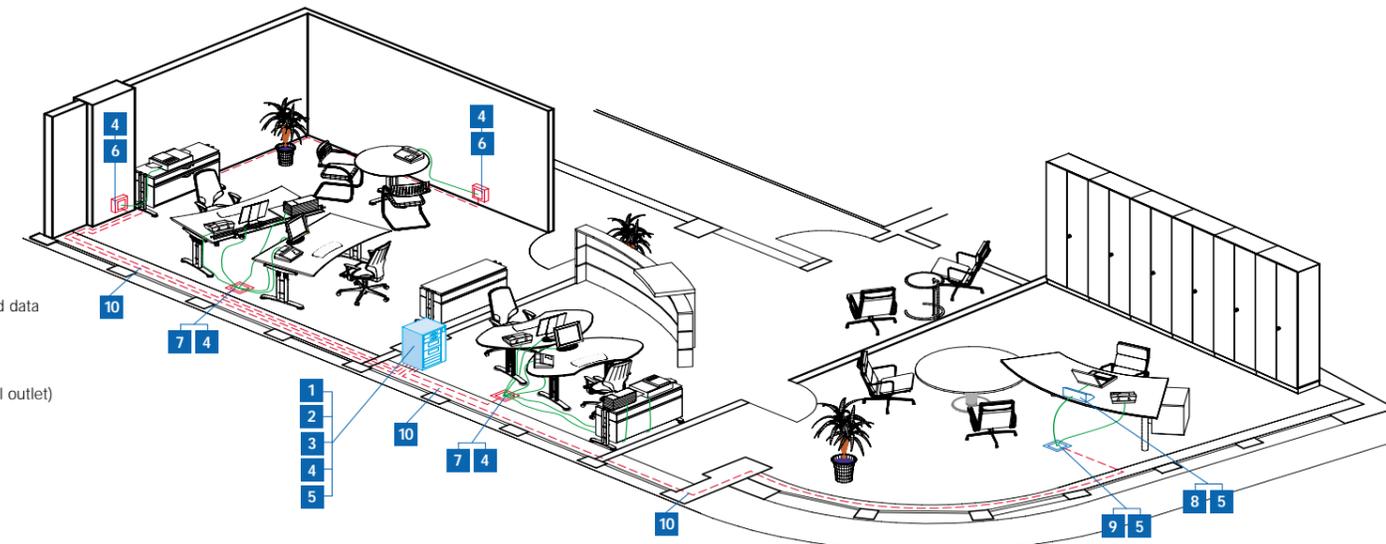


Consolidation points
Designed as cable bundle terminations, consolidation points are perfect miniature intermediate distributors. Cables connect them to telecommunications outlets. Because they are not permanently mounted, these telecoms outlets can be moved to accommodate changes in office arrangements. Each consolidation point can handle up to 12 connections.



Installation and connecting cables
Only Cat. 5e and Cat. 6 cables and appropriate connection modules make for a perfect installation of high quality cabling. Only the use of fully compatible parts guarantees full customer satisfaction.

-  installation cable, power (72 VDC, 10 W) and data
-  data patch cord
-  MUTO (multi-user terminal outlet)
-  CP (consolidation point)
-  distribution housing



Planning made easy and foolproof

NEW OPPORTUNITIES

The new generic cabling standard contains many, highly flexible data cabling innovations, especially longer workstation cables, more connections, and a closer definition of the new Category 6.

Amendments to the new standard have one aim: more data cabling flexibility. To give you the scope you need for the future. This means you can offer your customers cabling infrastructure solutions that allow them more design freedom when planning an installation and during operation. It's easy to stand behind your work, if your partner is R&M.

MORE FLEXIBILITY

Channel: A single channel can be up to 100 m in length (see formula) and accommodate four connections.

Class E channel: We also guarantee Class E channels with four connections, provided genuine Cat. 6 products are used.

Workstation cables: As long as channel length restrictions are observed (see formula), (A) can measure up to 20 meters in length.

MUTOs with up to 12 ports can be used to link more workstations.

The **consolidation point (CP;** maximum 12 ports) is a kind of intermediate distributor that is part of the permanent link. It is the termination of the main data cable bundle, each separate cable then leading to a telecommunications outlet (TO).

MUTOs and **consolidation points** are part of the permanently installed cabling. Cabling flexibility begins after these terminations.

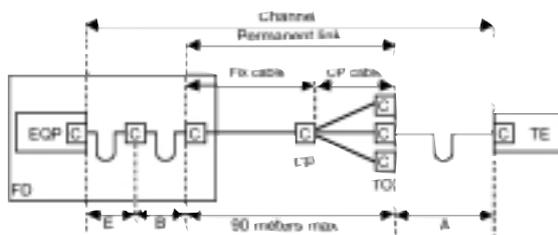
The **CP cable** ends in an **RJ45 plug** on the CP side and an **RJ45 module** on the TO side.

Future applications may need an equipment **power supply** using at least 72 VDC, 10 W cable.

WE OFFER MORE

We can provide passive cabling products that are fully compatible with all types of installation system. Thanks to ongoing investment in new product R&D, we can react instantly to new innovations and market developments. We concentrate on our core competence; if products from partner firms are intelligent adjuncts to our own range, we make sure they integrate perfectly in our systems.

We also provide sound, customer-oriented advice and consultation – along with a three-stage warranty program under which you and your customers can request lifelong application warranty.



EQP: active equipment
 FD: floor distributor
 C: connections
 CP: consolidation point
 TO: telecommunications outlet
 TE: terminal equipment
 A: workstation cable
 B+E: connecting cable
 CP cable: consolidation point cable

Planning for channel length:

$$(A + B + E + \text{CP cable}) \times 1,5 + \text{Fix cable} \leq 100 \text{ m}$$

"GET MORE"
 R&M generic
 cabling systems

- more flexibility
- more convenience

TV, CATV,
 satellite receivers,
 radio, ISDN,
 phone, PC network





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