

BULLETIN CAT. 6

Be on the safe side!

Are you convinced that your network reaches true Cat. 6 performance?

Always request documentation on your network components' performance when investing into cabling systems of performance Category 6. Ask your system supplier for certificates of independent testing institutions, and make particularly sure that your products are fully compatible, that they really do comply with the standards and guarantee highest quality data transmission. This is the only way to protect your investment in the long run!

Here are the decisive quality criteria for Cat. 6 products:

⇒ **Interoperability**

Ask for Cat. 6 components that have been certified in accordance with the de-embedded method. De-embedded means that the lab tests a specimen in its combination with components whose transmission characteristics are just within the admissible range. An outlet for example is tested with a whole series of reference plugs, selected by their extreme values being just within the admissible range. If the outlet passes the test, it consequently is 100% compatible with other true Cat. 6 products.

Certificates of so-called channels measurements do not guarantee interoperability. This measuring method only covers the characteristics of a complete connection but not of its single components. Plugs and jacks from the same manufacturer quite obviously always work well together. It is, however, not certain at all if they also work with components from other manufacturers.

⇒ **Backwards compatibility**

The de-embedded method makes automatically sure that each certified Cat. 6 component is backwards compatible with Cat. 5 installations (2002)

⇒ **Standards**

By now all relevant cabling standards have been passed. Certificates that still refer to drafts are therefore void.

Also ask that your components were tested for all relevant standards and not only for one.

Pay special attention to the test methods. Some labs reduce the testing series by testing the transmission characteristics only with a "convenient" middle reference plug instead of using the maximal and minimal plugs as well.

An example: certification of the R&M connection modules

Two independent certificates document test and performance of the shielded and unshielded version of the R&M Cat. 6 connection module. The measurements were carried out by the two accredited labs DELTA and GHMT.

DELTA

Accredited by the Danish Ministry of Economy and Industry:
the certificates are issued in English only.

No. 2003-03 Screened Category 6 Connecting Hardware De-embedded test method

Product description

Screened Category 6 RJ45 jack

Generic cabling standards, cable standards

- ISO/IEC 11801:2002
- EN 50173-1:2002
- ANSI/TIA/EIA-568-B.2-1

This product has been tested by the EC (European Cabling) group of DELTA and complies with the electrical requirements of the above specified standards. The mated pair requirements are passed using the **complete specified de-embedded range** of RJ45 plugs.

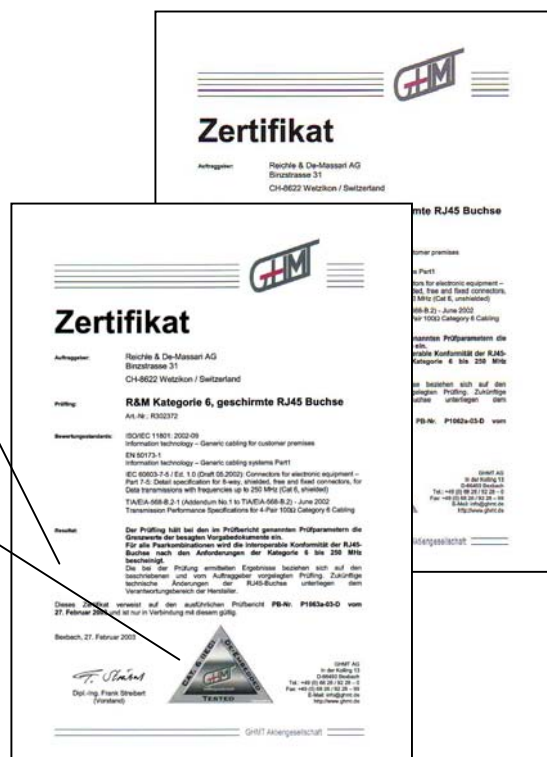


GHMT

Accredited acc. to DIN EN ISO/IEC 17025 by the
German Accreditation Council;
certificates issued in German only.

Only compliance statements issued after 27 February 2003 base on a fully de-embedded measurement. Earlier certificates must be regarded as incomplete for not all combinations with reference plugs were measured.

Look out for the reference „CAT. 6 (IEC)“ in the triangle of the de-embedded logo. It gives you the guarantee that measurements were complete and state-of-the-art. As the first company, R&M have had their components certified by GHMT according to this comprehensive method.



Convincing cabling solutions

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