



HCS - HES Cabling Systems

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## HCS Newsletter

No. 50, Dated Tuesday, 31 May, 2005

### HCS Presentation at the BICSI Middle-East & Africa 4<sup>th</sup> Annual Conference 2005



HCS, the only Turkish manufacturer of state-of-the-art LAN Cabling Systems, will keep its yearly tradition by participating and contributing to the 4<sup>th</sup> [BICSI](http://www.bicsi.com) Middle East & Africa Conference 2005 on 12-13th June at the Shangri-La Hotel, Dubai, United Arab Emirates.

This year the HCS presentation will be delivered by **Mr. Ergun R. Akan, HCS Asst. General Manager** and the topic will be ***Backward Compatibility and Standards Consistency in Copper Cabling Systems.***

#### **Presentation abstract:**

The HCS presentation deals with Category 6 permanent link failures caused due to inconsistency between TIA-EIA-568-B.2 & ISO/IEC-11801 cabling standards.

Harmonizing cabling standards is a constant goal in all cabling committees, with obvious importance. Presently there are several differences between the major cabling standards, although the test limits of permanent links & channels according to ISO/IEC-11801, ANSI/TIA-EIA-568 and CENELEC EN50173 are quite similar.

All cabling standards require "backward compatibility", so higher category components should be always compatible with lower category components.

This leads to the conclusion that higher classes or categories must have better or similar transmission performance when compared to lower classes or categories; hence Category 7 components should not have worse transmission performance than Category 6 components.

And finally: We expect (and assume) that when we use fully compliant components and install them properly we will obtain fully compliant channels & permanent links.

Unfortunately this is not always true.

An inconsistency between the TCL requirements of IEC 61156-5 (which defines the cables for ISO/IEC-11801) and TIA-EIA-568-B.2-1 creates a situation in which permanent links made with STP cables and fully compliant Category 6 connecting hardware may fail the crosstalk test.

#### **Topics covered:**

- **The importance of balance in differential transmission**
- **Unbalance test method & limits: IEC-61156-5 vs TIA/EIA-568-B.2-1**
- **Case study: Category 7 cables installed with Category 6 connecting hardware**
- **Lab test results & evaluation**
- **Conclusions & recommendations**

**The HCS presentation will take place on 13 June 2005 at 09:50.**

During the conference we will be glad also to accommodate you at the HCS stand in the BICSI exhibition, which will be open to all the conference attendees before and after the educational sessions.

Detailed information on the conference program can be found at <http://www.itp.net/events/BICSI/agenda.php>

For more information on HCS please browse [www.hescs.com](http://www.hescs.com) , which includes the [HCS Online Catalog](#).

***HCS is the No.1 Turkish supplier of high- performance fiber optic and twisted pair LAN Cabling Systems.***

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