



## **HCS Newsletter**

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### **HCS DataLink 600 CATEGORY 6+ Shielded Systems for 10GBE**

HCS, the only Turkish manufacturer of state-of-the-art LAN cabling systems introduces

**HCS DataLink 600 Category 6+:** Fully shielded cabling systems, made of DataLink 600 Category 7 S/STP cables and fully shielded DataLink CAT 6 keystone jacks.

This unique combination provides an optimal solution for both present and future applications at a reasonable cost, enabling simple installation and system upgrade.

The present status of standardization presents a dilemma for system designers: The first 10 Gigabit Ethernet draft protocol (IEEE P802.3an Task Force 10G Base-T) will be launched this summer, and the first proposals for the cabling components (TIA PN-4426, Augmented CAT 6) are expected only in the end of May 2004. It seems evident that Category 6 UTP (Class E) cabling will not support this new protocol, but no clear alternative has been defined.

This situation leads network designers to keep on installing Category 6 and Category 5e UTP cabling, providing economical solutions but most probably minimizing the chances for future upgrade to 10GBE.

Others select Category 7 cabling systems, which will most probably support 10GBE but are an expensive solution, mainly due to the high cost of connecting hardware & final testing.

**HCS DataLink 600 Category 6+** provides the optimal solution, combining Category 7 S/STP 600 MHz horizontal cable, with low cost, fully shielded Category 6 connecting hardware, ETL Verified at the component level.

What makes **HCS DataLink 600 Category 6+** the optimal solution?

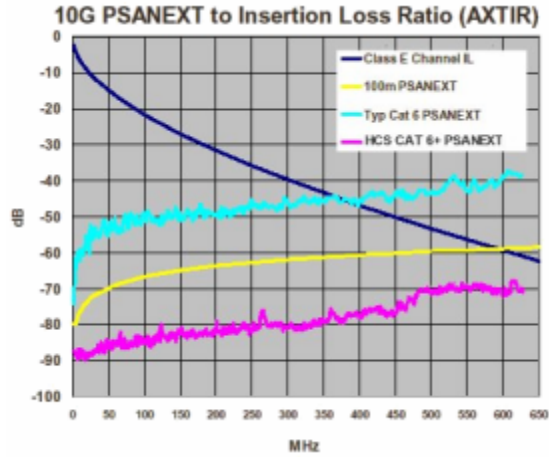


1. HCS DataLink Category 7 S/STP cable is the only component recognized by the IEEE P802.3an 10GBase-T Task Force as being able to support the future 10GBE protocol. This is a well established product, with a large installed base (in Europe), double shielded yet easy to install and available at a reasonable price. Selecting DataLink Category 7 S/STP cable is a "future-proof" decision, being a fail-safe solution for any future upgrade, as in addition to its outstanding transmission properties it has extremely high coupling attenuation (Type I according to IEC 61156-5), providing excellent EMC.



2. HCS DataLink CAT 6 Shielded Keystone Jacks are among the few shielded CAT 6 components officially ETL verified. The RJ-45 construction makes them easy to install and the overall shield guarantees sufficient alien crosstalk and good EMC.

In addition, HCS DataLink CAT 6 Shielded Keystone Jacks are showing a stable performance up to 625 MHz with sufficient AXTIR to support 10GBE:



And last but not least:

All **HCS DataLink 600 Category 6+** components are available in stock.

When the relevant cabling standards will be ratified and when adequate field instrument will be available, all installed links will have to be re-tested in order to determine which are suitable to support the 10GBE protocol. It is possible that some of **HCS DataLink 600 Category 6+** links will have to be upgraded, but this process will require only to replace the connecting hardware, as the HCS DataLink Category 7 S/STP cable is guaranteed to support the 10GBE protocol.

Bottom line:

**HCS DataLink 600 Category 6+** is the optimal solution for network designers who must select today a cabling system that will support 10 Gigabit Ethernet.

For more information on HCS please browse [www.hescs.com](http://www.hescs.com) which includes the HCS Online Catalog or contact our technical service centers in Turkish or in English (Istanbul Center).

Ufuk YILMAZ  
Asst. General Manager  
HCS- HES Cabling Systems  
e-mail: [yilmaz@hescs.com](mailto:yilmaz@hescs.com)

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

## HCS – HES Cabling Systems

**HQ:** Bankalar Caddesi Ekas Han No. 75-77 8000 Karakoy Istanbul, Turkey.  
Phone: +90-212-2565630 Fax: +90-212-2565446

**PLANT:** Erciyes Mahallesi Hes Caddesi No:22 38210 Kayseri, Turkey  
Phone: +90-352-442 25 40 Fax: +90-352-442 28 00



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