



HCS Newsletter

No. 35, Dated Thursday, Tuesday, September 17, 2002

HCS Category 6 UTP Permanent Link & Channel Tested & Approved by ETL



HCS DataLink 250E Category 6E UTP components were tested by ETL both as Permanent Link and Channel, and were found to perform well beyond Category 6 standards (e.g. ANSI/TIA/EIA-568-B.2-1) in all transmission parameters.

HCS DataLink 250E CAT 6E UTP Permanent Link	HCS DataLink 250E CAT 6E UTP Channel
42dB minimum NEXT up to 250 MHz – 7dB Margin	42dB minimum NEXT up to 250 MHz – 9dB Margin
38dB minimum EL-FEXT up to 250 MHz – 21dB Margin	35dB minimum EL-FEXT up to 250 MHz – 17dB Margin
16dB minimum ACR up to 250 MHz – 11dB Margin	12dB minimum ACR up to 250 MHz – 14dB Margin
22dB minimum RL up to 250 MHz	19dB minimum RL up to 250 MHz

*Selected pages from the ETL test report and the ETL Reports of Testing are attached.
The complete ETL test reports verifying the above will be sent upon request.*

These outstanding transmission properties equate to a significant amount of headroom over the Category 6 standards providing several important benefits:

- It guarantees extremely low rejection rate of the installed links and channels.
- It minimizes the BER (bit-error-rate), improving network efficiency.
- It protects the end-user's technology investment against future industry advances.

HCS DataLink 250E Category 6e UTP components design incorporates several HCS innovations that maintain the structural and electrical stability of the cable and of the other components after packaging, after installation and during the entire lifetime of the cabling system.

The above, combined with the unique [HCS DoubleSafe™ Quality Program](#) and the [HCS Century™ Lifetime Warranty](#), provides the best Category 6 cabling system in the market today.

For more information on HCS products please browse the [HCS Online Catalog](#) or contact our technical service centers in Turkish ([Istanbul Center](#)) or in English ([European Center](#)).

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

HCS – HES Cabling Systems

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REPORT OF TESTING



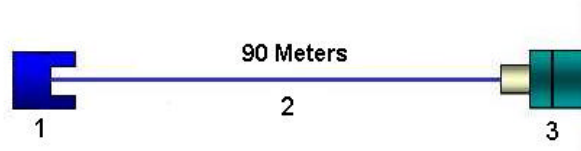
Independent Cabling Products Testing
Reference ITS Report Number 3030200-001, Dated September 11, 2002

Rendered To:

HCS (HES Cabling Systems)
Bankalar Caddesi Ekas Han No. 75-77
8000 Karakoy
Istanbul, TURKEY

SAMPLE DESCRIPTION:

Permanent Link (2 Connector)



<u>Component ID</u>	<u>Manufacturer</u>	<u>Part Number</u>	<u>Description</u>
1	HCS	J6E-00813	Telecom. Outlet
2	HCS	H6E-00401	Horizontal Cable
3	HCS	P6E-02403-1u	Patch Panel

Conclusions

- The Permanent Link Configuration, as described above, was independently tested by ITS/ETL Testing Laboratories in accordance with and to the requirements of ANSI/TIA/EIA 568-B.2-1 for Category 6 Cabling Systems, and was found to be in compliance with the indicated applicable requirements. All components were supplied by the manufacturer.

September 12, 2002

Robert Southworth
Laboratory Supervisor
Communications Products

REPORT OF TESTING



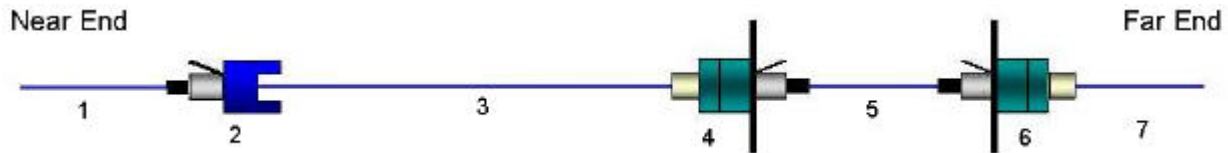
Independent Cabling Products Testing
Reference ITS Report Number 3030200-002, Dated September 11, 2002

Rendered To:

HCS (HES Cabling Systems)
Bankalar Caddesi Ekas Han No. 75-77
8000 Karakoy
Istanbul, TURKEY

SAMPLE DESCRIPTION:

Channel (3 Connector)



Component	Manufacturer	Part Number	Description
1, 7	HCS	T06-00410-30	Equipment Cord
2	HCS	J6E-00813	Wall Outlet
3	HCS	H6E-00401	Horizontal Cable
4, 6	HCS	P6E-02403-1u	Patch Panel
5	HCS	T06-00410-30	Cross Connect

Conclusions

- The channel, as described above, was independently tested by ITS/ETL Testing Laboratories in accordance with and to the requirements of ANSI/TIA/EIA 568-B.2-1 for Category 6 Cabling Systems, and was found to be in compliance with the indicated applicable requirements. All components were supplied by the manufacturer.

September 12, 2002

Robert Southworth
Laboratory Supervisor
Communications Products

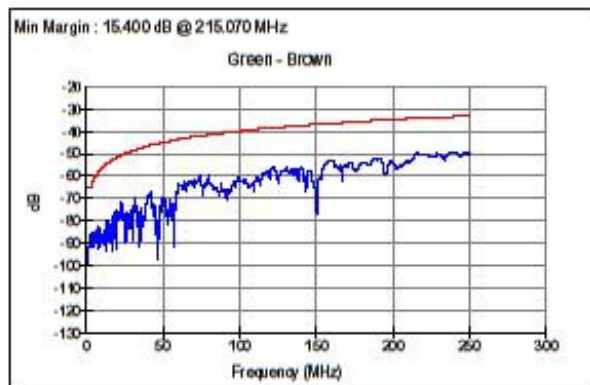
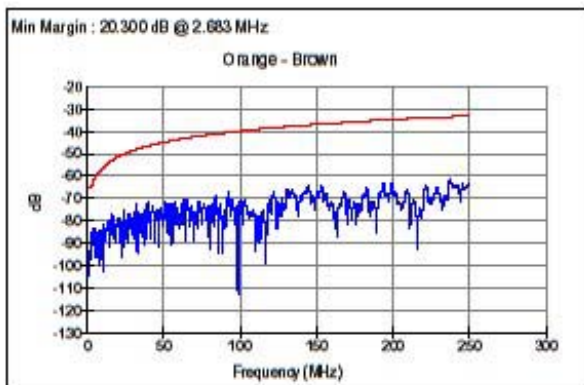
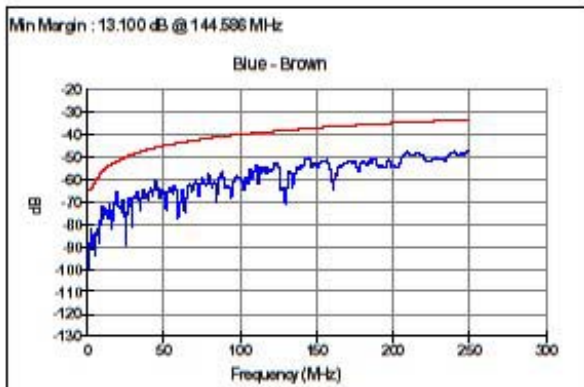
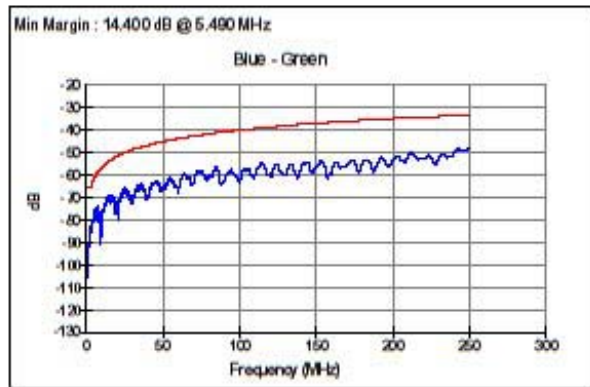
Attachments

1. ETL Test report: CAT 6 UTP Channel (3 Connectors) NEXT:



Client	HCS	Report No	3030200-002
Specification	TIA 568B2-1 - Cat 6 Chan Swept250 Limits250MHz		
Part No	HCS-3C-CH-1	Length(m)	100
Test Started	9/6/02 5:07:40 PM	Temperature	22 °C
Comments	3 Connector Channel		
Technician	David Ayers	Test Status:	PASS

Near End Cross Talk (Near End)

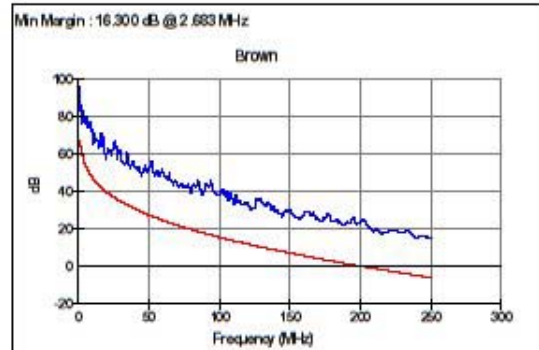
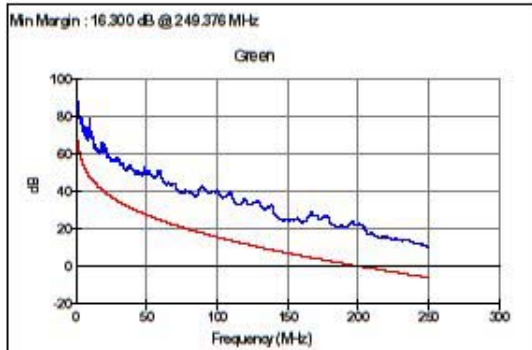
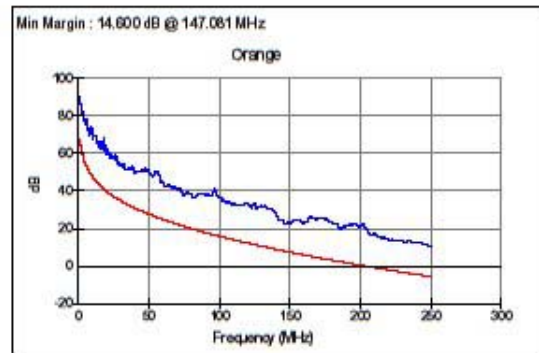
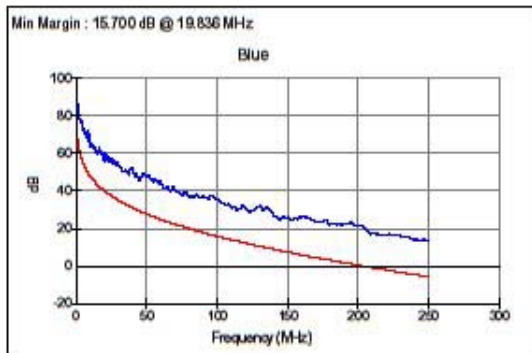


2. ETL Test report: CAT 6 UTP Channel (3 Connectors) PS-ACR:



Client	HCS	Report No	3030200-002
Specification	TIA 568B2-1 - Cat 6 Chan Swept250 Limits250MHz		
Part No	HCS-3C-CH-1	Length(m)	100
Test Started	9/6/02 5:07:40 PM	Temperature	22 °C
Comments	3 Connector Channel		
Technician	David Ayers	Test Status:	PASS

Power Sum ACR (Near End)



3. ETL Test report: CAT 6 UTP Channel (3 Connectors) RL:



Client	HCS	Report No	3030200-002
Specification	TIA 568B2-1 - Cat 6 Chan Swept250 Limits250MHz		
Part No	HCS-3C-CH-1	Length(m)	100
Test Started	9/6/02 5:07:40 PM	Temperature	22 °C
Comments	3 Connector Channel		
Technician	David Ayers	Test Status:	PASS

Return Loss (Near End)

