



HCS Newsletter

No. 52, Dated Friday, 21 October, 2005

HCS Broadband digital communications Multipair Copper Cables Conforming to IEC 62255

HCS offers a wide range of multipair copper cables for broadband digital communications and high bit rate digital access telecommunication networks.

60% of the broadband services are provided presently with ADSL.

As ADSL technology and applications evolve, the quality of the cabling infrastructure becomes critical.

While these links in the ADSL delivery chain were often overlooked in first-generation ADSL, their importance grows as downstream bit rates exceed 24Mbps. New services, such as video and VoIP, require high data rates that must be durable and predictable to ensure high service quality.

The most critical issues to account for in designing an advanced ADSL solution are Noise and Crosstalk (e.g. noise transmitted between adjacent pairs within the cable). While all network components can generate crosstalk, the cable is normally the largest contributor, being the longest component, so the best way to minimize crosstalk and to improve the quality of service is installing a high-quality broadband cable.

In many cases the cables installed in the telecom infrastructure have no defined crosstalk parameters and if there are, they are specified only at very low frequencies.

HCS standard broadband cables transmission parameters are defined according to the newly released IEC 62255 up to 30 MHz, or according to TIA/EIA-568-B.2 Category 3 up to 16 MHz.

HCS is well-aware of the diversity in telecom network interfaces; therefore we offer a wide range of custom-made constructions, including 90 Ohm, 100 Ohm and 120 Ohm impedance with different transmission properties and frequency range.

HCS broadband cables are available in different pair count and group formations (up to 25 pairs per group), for indoor or outdoor installation, with PE, PVC or LS0H jackets, with different optional shields, jell-filling, moisture barrier, steel armors and rodent protections.

All HCS broadband cables fully conform to European Union Directive 2002/95/EC (RoHS).

Detailed information on HCS Category 3 broadband cables can be found at

[Category 3 UTP 100 Ohm Horizontal and Backbone Indoor LAN Cables](#)

and

[Category 3 UTP 100 Ohm Horizontal and Backbone Outdoor LAN Cables](#)

Detailed technical specifications for custom-made cables are available upon request.

Sincerely,

Ergün Rıza AKAN
Asst. General Manager

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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Connecting Networks