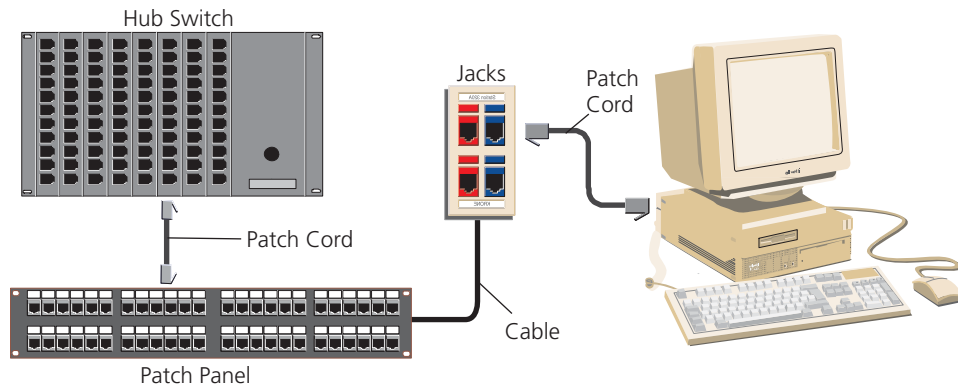


# TrueNet®

## Category 6: Highband® 25 to KM8 Jack



The TrueNet® Category 6 system is a fully integrated family of precisely tuned components each designed to operate at optimum performance with the other. TrueNet Category 6 systems are unmatched in data throughput and are supported by the most comprehensive and thorough warranty in the industry: the TrueNet Zero Bit-Error warranty. The warranty guarantees that the structured cabling system will remain error free for a full 5 years and includes a 20-year electrical performance and free of defect warranty.

The result is a remarkably advanced and high performing end-to-end channel guaranteed beyond the typical industry requirements to maximize network throughput and minimize downtime. Numerous component options are available for versatility and flexible adaptation to meet any infrastructure requirement.

### Support Applications:

- 10/100/1000 Base-T (IEEE 802.3xx)
- 4/16 Mb/s Token Ring
- 25,155,622 Mb/s ATM

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## Active Network Specifications:

IEEE Input Specification Limits/100BASE-T		
Spec	Min.	Max.
Positive Amplitude:	0.95V	1.05V
Negative Amplitude:	.095V	1.05V
Amplitude Symmetry:	0.98%	1.02%
Rise Time:	3 ns	5 ns
Fall Time:	3 ns	5 ns
Rise Time/Fall Time Symmetry:	0 ns	0.5 ns
Jitter:	0%	14%

## 100 Meter Channel Passive Electrical Specifications

Freq (MHz)	Attenuation (dB)		NEXT (dB)		ACR (dB)		Return Loss (dB)	
	[min]	[typical]	[min]	[typical]	[min]	[typical]	[min]	[typical]
1	3.0	1.8	65.0	80.4	62.0	78.6	19.0	29.0
4	4.0	3.3	63.0	74.7	59.1	69.9	19.0	29.0
8	5.7	4.8	58.2	70.5	52.6	65.3	19.0	29.0
10	6.3	5.3	56.6	69.5	50.3	64.7	19.0	29.0
16	8.0	6.8	53.3	67.8	45.3	63.2	18.0	29.0
20	9.0	7.6	51.6	65.3	42.6	52.2	17.5	28.3
25	10.1	8.6	50.0	60.7	39.9	51.1	17.0	27.5
31.25	11.4	9.7	48.4	59.8	37.1	51.0	16.5	27.2
62.5	16.6	14.1	43.4	58.2	26.9	35.3	14.0	25.6
100	21.3	18.1	39.9	53.1	18.7	32.5	12.0	24.7
150	26.8	22.7	36.9	52.1	10.2	28.0	10.3	20.0
200	31.6	26.5	34.8	50.9	3.3	19.0	9.8	18.3
250	36.0	30.7	33.1	46.8	-2.9	15.9	8.0	15.6

- Minimum values [min] represent worst case allowable in TrueNet system. Minimum TrueNet values are derived from and meet or exceed TIA/EIA 568-B.2-1 Category 6 values.
- Typical values [typical] were obtained from passive testing over a 100 meter channel in a UL certified laboratory under controlled conditions.
- Category 6 channel and components guaranteed to meet or exceed TIA/EIA 568-B.2-1 Category 6 standards. Channel consisted of AirES® cable, AirES patch cord, Highband® 25 block and KM8 jack.

<b>Characteristic Impedance for Cable:</b>	100Ω(±3Ω)@100 MHz
<b>Channel Propagation Phase Delay:</b>	490 ns
<b>Channel Delay Skew:</b>	22 ns

CHANNEL SPECS



### Web Site: [www.adc.com](http://www.adc.com)

From North America, Call Toll Free: 1-800-366-3891 • Outside of North America: +1-952-938-8080  
 Fax: +1-952-917-3237 • For a listing of ADC's global sales office locations, please refer to our web site.

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