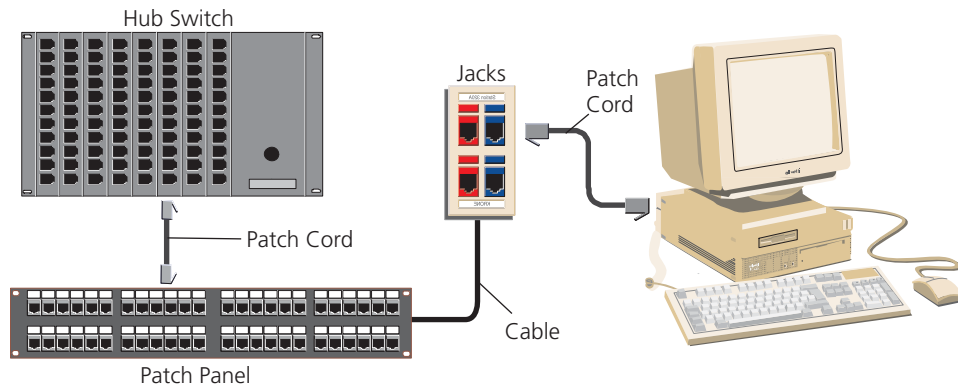


# TrueNet®

## Category 6: KM8 Jack to Patch Panel



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<br>(MHz) | Attenuation<br>(dB) |           | NEXT<br>(dB) |           | ACR<br>(dB) |           | Return Loss<br>(dB) |           |
|---------------|---------------------|-----------|--------------|-----------|-------------|-----------|---------------------|-----------|
|               | [min]               | [typical] | [min]        | [typical] | [min]       | [typical] | [min]               | [typical] |
| 1             | 3.0                 | 1.9       | 65.0         | 82.4      | 62.0        | 78.3      | 19.0                | 33.9      |
| 4             | 4.0                 | 3.5       | 63.0         | 81.1      | 59.1        | 72.4      | 19.0                | 32.5      |
| 8             | 5.7                 | 5.0       | 58.2         | 75.8      | 52.6        | 70.9      | 19.0                | 32.5      |
| 10            | 6.3                 | 5.5       | 56.6         | 73.7      | 50.3        | 66.5      | 19.0                | 32.5      |
| 16            | 8.0                 | 7.1       | 53.3         | 70.8      | 45.3        | 63.7      | 18.0                | 30.5      |
| 20            | 9.0                 | 8.0       | 51.6         | 68.9      | 42.6        | 61.0      | 17.5                | 28.2      |
| 25            | 10.1                | 8.9       | 50.0         | 67.8      | 39.9        | 58.4      | 17.0                | 28.0      |
| 31.25         | 11.4                | 10.0      | 48.4         | 67.0      | 37.1        | 54.5      | 16.5                | 27.5      |
| 62.5          | 16.6                | 14.6      | 43.4         | 62.0      | 26.9        | 43.9      | 14.0                | 27.2      |
| 100           | 21.3                | 18.9      | 39.9         | 51.5      | 18.7        | 32.3      | 12.0                | 24.0      |
| 150           | 26.8                | 24.1      | 36.9         | 50.0      | 10.2        | 23.1      | 10.3                | 21.0      |
| 200           | 31.6                | 28.3      | 34.8         | 42.5      | 3.3         | 19.5      | 9.8                 | 20.5      |
| 250           | 36.0                | 32.1      | 33.1         | 45.6      | -2.9        | 14.3      | 8.0                 | 19.8      |

- 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, Ultim8™ 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             |

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

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