

TrueNet®

Zero Bit-Error Warranty

ADC's TrueNet® structured cabling system is a highly reliable, end-to-end system designed to meet the unique network infrastructure needs of enterprises. Featuring proven cable, connectivity, and cable management solutions for Fiber, CopperTen™ Augmented Category 6, and Category 6/5e from the data center to the desktop, TrueNet is installed in high performance networks worldwide.

Backed by an industry leading warranty that not only addresses physical component performance, but also data throughput, the TrueNet structured cabling system delivers performance you can trust.

ADC's TrueNet Zero Bit-Error Warranty covers all aspects of the structured cabling network. A 20-year all-inclusive standards compliance warranty addresses all parts, labor, and technical support. TrueNet CopperTen™ Augmented Category 6, Category 6/5e and Fiber solutions carry an additional five-year throughput warranty that guarantees zero bit-error performance for the entire TrueNet structured cabling channel.

World-Class Manufacturing and Testing

ADC is committed to consistently delivering the highest possible quality in all that we do. A registered TL9000 and ISO9000:2000 manufacturer, ADC is certified in 21 categories: the largest number of registrations of any ISO certified company. Additionally, ADC facilities are approved to self certify products for compliance with UL Safety Standards.

ADC leverages its best-in-class manufacturing facilities and processes to ensure all cable and connectivity solutions are tuned to eliminate impedance mismatches. ADC's TrueNet solutions are tested to impedance matching standards five times more rigorous than current industry standards. As a result, TrueNet optimizes network speed by eliminating data re-transmissions.

Passive Testing

- PSELFEXT
- PSNEXT
- PSACR
- Channel Impedance
- Delay Skew
- Differential Impedance
- Insertion Loss Deviation
- Link Impedance
- Noise
- Return Loss

Active Testing

- Network Load/Live Testing
- Jitter
- Rise Time/Fall Time
- Minimum Voltage/Amplitude
- Interference
- CRC Errors
- Alignment Fragments
- Interframe Gap
- Oversized/Undersized Packets

True Performance Assurance

If a TrueNet Certified System or any components fail to meet the warranty, ADC will have the components repaired or replaced, or will refund to the end user the purchase price of defective components. The TrueNet Zero Bit-Error Warranty is application independent and covers all networks including Ethernet, ATM, and Token Ring.

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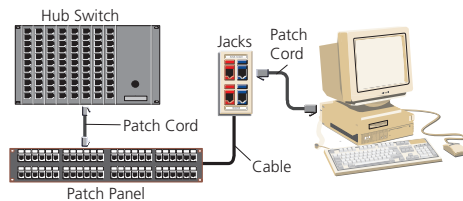
Zero Bit-Error Warranty

	TrueNet Augmented Category 6 Solutions	TrueNet Category 6 Solutions	TrueNet Category 5e Solutions	TrueNet Fiber Solutions
Channel				TrueNet®
Work Area	Patch cords Modular jacks (CopperTen™)	Patch cords Modular jacks (KM8)	Patch cords Modular jacks (K610) Adapters	Jumpers Faceplates Adapters
Horizontal Solution	Plenum, riser and low smoke zero hallogen copper cables	Plenum, riser and low smoke zero hallogen copper cables	Plenum, riser and low smoke zero hallogen copper cables	Plenum and riser fiber cables
Closet/ Data Center Solutions	Patch cords Patch panels Termination blocks (CopperTen) Modular jacks (CopperTen)	Patch cords Patch panels Wire termination blocks (Ultim8™, Highband® 25) Modular jacks (KM8)	Patch cords Patch panels Wire termination blocks (Highband® 10) Modular jacks (K610)	Jumpers Cable Assemblies FiberGuide® Black NGF, FL2, FPL, FMT, RMG, WMG All multimode field installable connectors: anaerobic, epoxy/polish, fast install. Singlemode field installable connectors: epoxy/polish only.
Warranty Guarantees	Zero bit-errors* TIA/EIA-568-B.2-10 draft standards ISO 11801 20/5 coverage	Zero bit-errors* TIA/EIA-568-B.2-1 ISO 11801 Class E 20/5 coverage	Zero bit-errors* TIA/EIA-568-B.2 Category 5e Compliance ISO 11801 Class D 20/5 coverage	Zero bit-errors* TIA/EIA - 568-B.3 ISO 11801 20/5 coverage
Standards Compliance	IEEE 802.3 an ISO/IEC	IEEE 802.3 ISO/IEC	IEEE 802.3 ISO/IEC	IEEE 802.3 ISO/IEC
Recommended Applications	10GBase-T 10/100/1000Base-T 4/16 Token Ring 25, 55, 622 ATM 1.2 Gbps ATM	10/100/1000Base-T 4/16 Token Ring 25, 155, 622 ATM	10/100/1000Base-T** 4/16 Token Ring 25, 155, 622 ATM	10 GbE 10/100/1000 Base 4/16 Token Ring 25, 155, 622 ATM

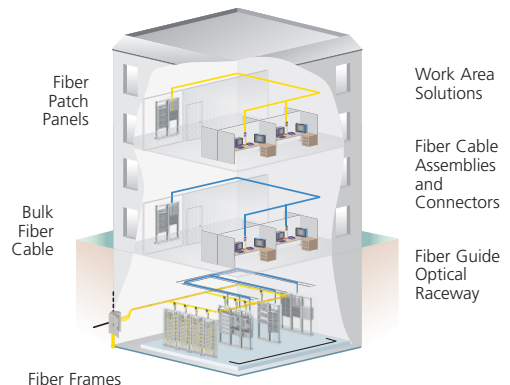
*Guaranteed zero bit-errors as referenced in TrueNet Zero Bit-Error Warranty conditions

**To run 1000Base-T over Category 5e, enhanced DSP electronics are required (first generation 1000Base-T)

TrueNet Copper Channel



TrueNet Fiber Channel



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Fiber Link Lengths	Gigabit Link @850nm Link (in meters)	Gigabit Link @1300nm (in meters)	10 Gigabit Link @850nm (in meters)	10 Gigabit Link @1300nm (in meters)
62.5	300	550	26	300
50	750	500	150	300
50U	970	600	300	300
5U5	1040	600	550	300
Singlemode		5000 (@1310 nm)		10000 (@1310 nm)

Above distances supported per applicable TIA/EIA standards provided the following occurs:

- 1 The appropriate glass type is utilized for the given bandwidth and distance
- 2 Splice losses not to exceed 0.05dB @ 850nm and/or 1300nm for multimode applications, and 1310nm and/or 1550nm for singlemode applications
- 3 Mated pair connector loss not to exceed 0.75dB
- 4 Channel loss requirements not to exceed 3.5dB @ 850nm and 1.5dB @ 1300nm for multimode links, and requirements outlined in IEEE 802.3 applicable standards for singlemode links.

Warranty Certification Test Criteria:

- 1 Bill of materials for specific project must be included
- 2 Glass type must be specifically noted
- 3 Maximum link lengths per channel must be specified
- 4 Appropriate attenuation IL data per channel must be included
- 5 As-built documentation for all installed links (e.g. cable run sheets and link schematics denoting lengths of cable runs)

Products eligible for Standards and Zero Bit-Error Warranty:

- 1 All ADC TrueNet Fiber products (Jumpers and Cable Assemblies, FiberGuide®, Black NGF, FL2, FPL, FMT, RMG, and WMG)
- 2 Multimode field installable connectors: anaerobic, epoxy/polish, field installable
- 3 Singlemode field installable connectors: epoxy/polish only
- 4 Must include end-to-end where applicable e.g. ADC connector, cable, and hardware

Exclusions from Zero Bit-Error Warranty:

- 1 Work performed by non-ADC certified VAR partners unless exception obtained in writing from ADC
- 2 Singlemode terminations - anaerobic and fast install
- 3 Multimode terminations - none
- 4 Preference for cable support is to utilize FiberGuide Optical Raceway, if some other product is utilized the following rules apply:
 - i. Simplex or zip cord must be supported by FiberGuide
 - ii. If FiberGuide not utilized then appropriate distribution cable must be used
 - iii. Pile up and bend radius per manufacturers' specifications must be adhered to
 - iv. Copper cable may not be deployed on or within the fiber routing area

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Web Site: www.adc.com

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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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