



# Apple Ethernet Cable System

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<b>System Requirements</b>	The Apple Ethernet media adapters require a device with an Apple Ethernet	port. Such devices include the Apple Ethernet NB Card, Apple Ethernet LC	Card, and many third-party Ethernet cards and network interface devices.
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<b>Product Details</b>	The Apple Ethernet components provide physical level access to data communications networks meeting IEEE 802.3 standards. All media meeting this specification	are supported by Apple Ethernet products. For communication over any of these physical connections, additional software is required. For instance, to use AppleTalk® network	system services, EtherTalk® software is required. Additional software is available to provide communication in other environments, such as OSI, TCP/IP, DECnet <sup>§</sup> and SNA.
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## Technical Specifications

<b>Apple Ethernet Thin Coax Transceiver</b>	
Topology	Serial bus
Connectors	Apple Ethernet 14-pin, 2 BNC posts
Wiring	Apple Ethernet self-terminating
Maximum cable length	200 meters <sup>~</sup>
Maximum number of nodes	40 <sup>~</sup>
Signaling standard	IEEE/ISO 802.3 10BASE2
Signaling speed	10 Mbps
Frame format	As per 10BASE2 standard
FCC certification	Class B

<sup>~</sup> For all-Apple Ethernet networks. Mixed networks revert to 802.3 specifications.

<b>Apple Ethernet Twisted-Pair Transceiver</b>	
Topology	Star--requires 10BASE-T hub
Connectors	Apple Ethernet 14-pin, RJ-45 receptacle
Wiring	Unshielded twisted-pair (telephone style)
Maximum cable length	100 meters
Maximum number of nodes	Dependent on 10BASE-T hub--average is 12 per hub
Signaling standard	IEEE/ISO 802.3 10BASE-T
Signaling speed	10 Mbps
Frame format	IEEE 802.3 standard (10BASE-T)
Network status	LEDs indicate link integrity and data activity
Self-correction	Automatic correction of receive wiring polarity errors

<b>Apple Ethernet AUI Adapter</b>	
Topology	AUI to Apple Ethernet port converter
Connectors	DB-15 with latch, Apple Ethernet 14-pin, and IEC Power
Wiring	2.5 meter Apple Ethernet port cable and 6 ft. power cord
Signaling standard	IEEE/ISO 802.3 AUI (Section 7)
Signaling speed	10Mbps
Maximum supported AUI cable length	35 meters <sup>§</sup>
Power supply voltage to AUI	12 volts nominal
Maximum attached MAU current draw	500 mA
Input voltage to IEC	100V to 240 VAC, 50 or 60 Hz

<sup>§</sup>Subject to attached MAU and AUI cable compatibility.

\* This device has not been approved by the Federal Communications Commission. This device is not, and may not be offered for sale or lease, or sold or leased until approval of the FCC has been obtained.

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**Apple Computer, Inc.** 20525 Mariani Avenue  
Cupertino, CA 95014  
(408) 996-1010  
TLX: 171-576

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## Apple Ethernet Thin Coax Transceiver (Order No. M0329LL/A)\*

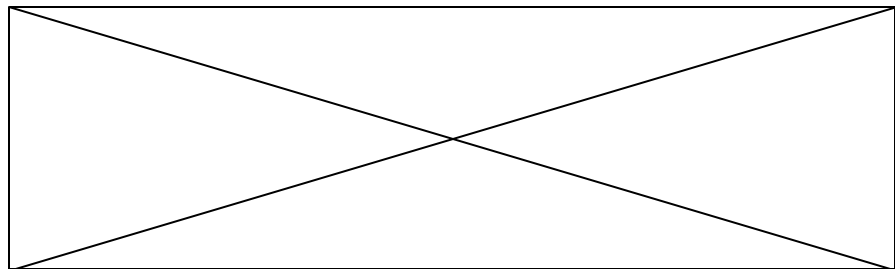
The Apple Ethernet Thin Coax Transceiver brings plug-and-play functionality to a standard thin coax Ethernet environment, whether you are connecting to an existing network or creating your own. A two-meter segment of thin coaxial cable is included with the transceiver; and, since the Apple Ethernet Thin Coax Transceiver and all Apple Ethernet cables are self-terminating, no additional terminating hardware is required. With self-termination, disconnecting a cable automatically terminates the network; a disconnected Apple Ethernet cable or Thin Coax Transceiver results in two separate but fully functional networks.

### Features

- Apple Ethernet connector
- 10 megabits-per-second bus topology Ethernet LAN
- Supports IEEE 802.3 standard for thin coax
- Self-terminating BNC connectors
- Includes two-meter self-terminating coax cable
- External transceiver

### Benefits

- One positive locking, easy-to-use connector that provides modular access to all standard Ethernet environments.
- Provides a high-speed, plug-and-play network.
- Completely compatible with industry-standard "thin" Ethernet. Plugs into existing cables for seamless integration into Ethernet environments.
- Requires no extra hardware to terminate the network. Self-terminating components minimize disruption if a cable becomes disconnected, and network administrators can easily isolate the disconnected end by using the Chooser or a network administrator's utility such as Inter-Poll.
- Includes all the required equipment to create your own Ethernet network.
- Apple Ethernet media adapters are separated from the back of the computer, allowing easy connection and disconnection.



\* See back page for FCC certification information.



# Apple Ethernet Cable System

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**Apple Ethernet Self-Terminating Cable--5 Meter (Order No. M0833LL/A)  
and Apple Ethernet Self-Terminating Cable--13-Meter Plenum (Order No. M0436LL/A)**

All Apple Ethernet cables are self-terminating. This means that a disconnected cable automatically results in two network segments that are both functionally intact. No external terminating hardware is required, and no complex cable-analyzing hardware is needed to track down where the network cable is disconnected. The Chooser or a network administrator utility such as Inter-Poll® allows you to see exactly which devices remain on the networks.

## Features

- Supports IEEE 802.3 standard for thin coax
- Self-terminating BNC connectors
- BNC overmolds
- Plenum-coated 13-meter cable

## Benefits

- Completely compatible with industry-standard “thin” Ethernet. Plugs into existing cables for seamless integration into your Ethernet environment.
- Disconnecting the cable properly terminates the network, minimizing disruption and allowing for easy network administration. No additional terminating hardware is required.
- Each end has a knurled overmold around the BNC, allowing for easier grasping, attaching, and removing.
- Fire-retardant material coats the 13-meter cable, which may allow for use in suspended ceilings without requiring the use of metal conduit. Check your local fire or building code.

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## **Apple Ethernet AUI Adapter (Order No. M0432LL/A)**

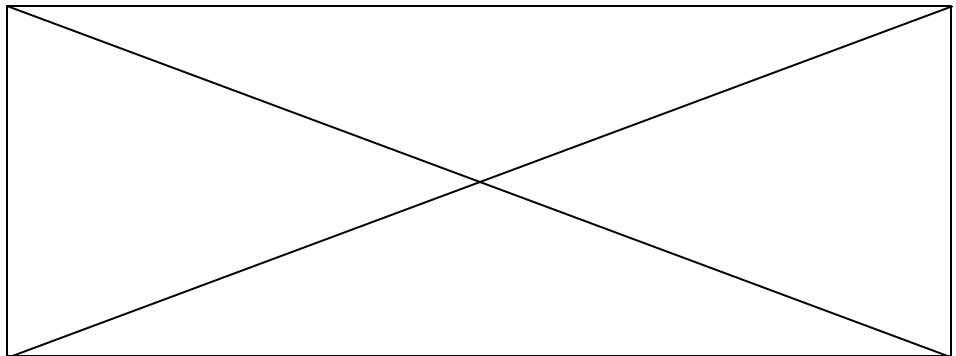
The Apple Ethernet AUI Adapter provides your network device a standard Attachment Unit Interface (AUI). Fully supporting the IEEE 802.3 AUI specification, this adapter allows you to connect your Apple Ethernet device to external transceivers for fiber-optic, thick coax, and other Ethernet media types. Any current or future Ethernet media standard will be supported by the Apple Ethernet AUI Adapter and an appropriate transceiver. The Apple Ethernet AUI Adapter contains its own power supply, easing the burden on the power supply of the network device. Even when there are multiple Ethernet links, the full AUI power requirement is met.

### **Features**

- Apple Ethernet connector
- Supports IEEE 802.3 AUI standard
- External power supply

### **Benefits**

- One positive locking, easy-to-use connector that provides modular access to all standard Ethernet environments.
- Compatible at plug level with industry-standard D-15 connector, allowing interoperability with any standard external Ethernet transceiver. Provides Apple Ethernet support for any Ethernet media type.
- Allows compliance with full IEEE AUI power requirements for any device. Also allows for multiple AUI connections without taxing the power supply of the computer.



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## Apple Ethernet Twisted-Pair Transceiver (Order No. M0437LL/A)\*

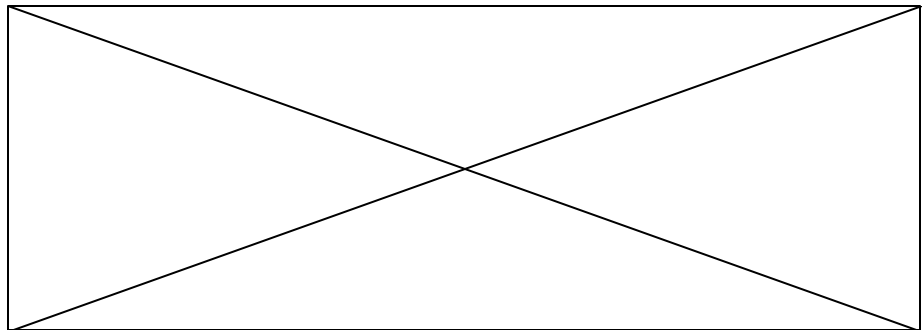
The Apple Ethernet Twisted-Pair Transceiver and included three-meter patch cord are all that is required to connect your network device to a standard 10BASE-T wall plate. 10BASE-T refers to an industry standard for Ethernet using telephone-grade unshielded twisted-pair wiring. Many sites have extra telephone wire already installed. Creating an Ethernet network with this wiring requires connecting certain pairs to a centralized Ethernet hub. The pairs run through the building to RJ-45 wall plates in each office. When you plug the Apple Ethernet Twisted-Pair Transceiver to the wall plate, a network connection is established. Since the Apple Ethernet Twisted-Pair Transceiver fully supports the IEEE 802.3 10BASE-T specification, it can be used with any third-party 10BASE-T hub.

### Features

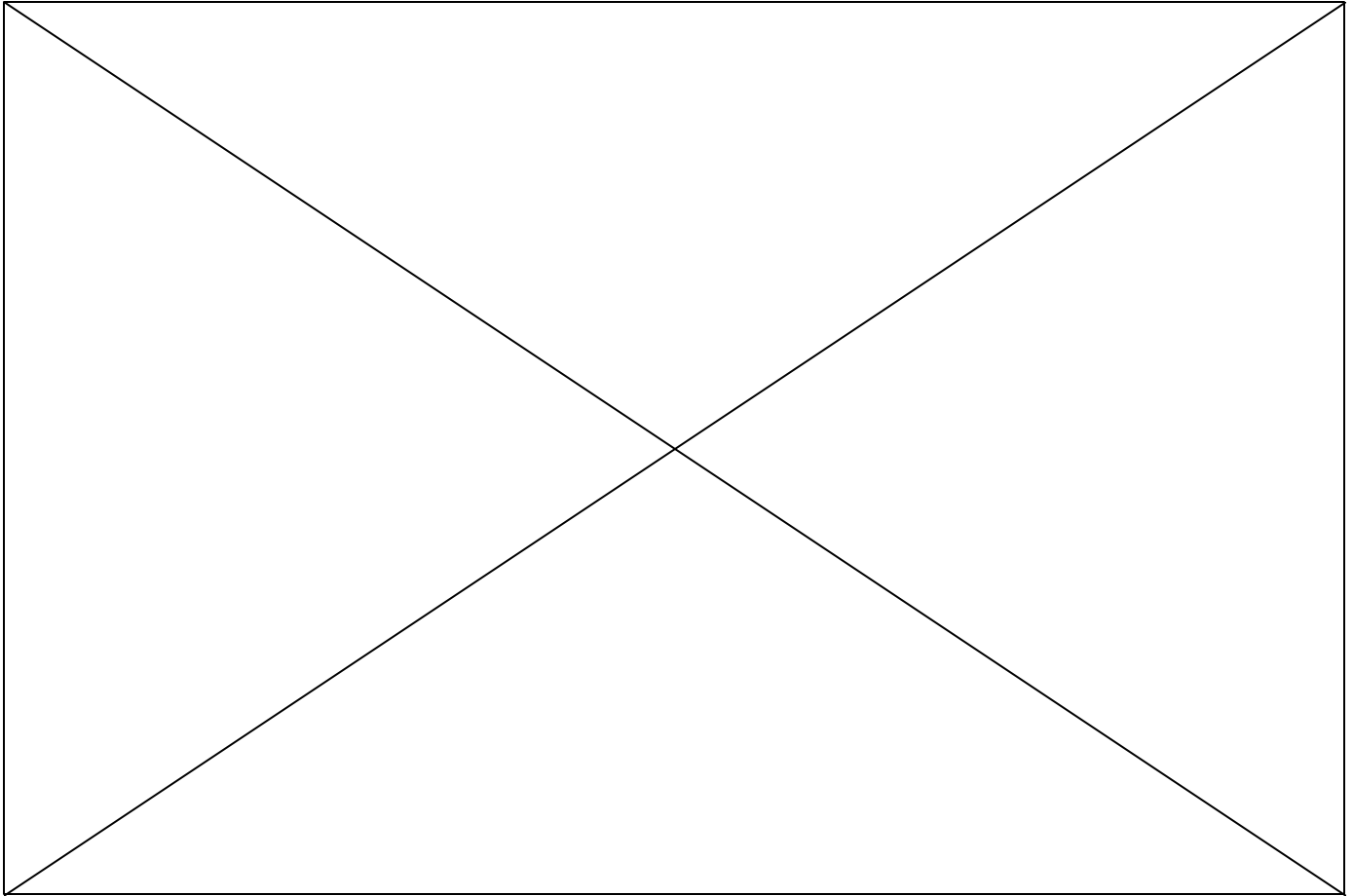
- Apple Ethernet connector
- 10 megabits-per-second star topology Ethernet LAN
- Supports IEEE 802.3 10BASE-T standard for twisted-pair
- Two LED indicators
- Includes three-meter RJ-45 patch cable

### Benefits

- One positive locking, easy-to-use connector that provides modular access to all standard Ethernet environments.
- Provides access to a high-speed network using existing wiring and centralized hub.
- Completely compatible at cable level with 10BASE-T unshielded twisted-pair networks. Can interoperate with any standard 10BASE-T Ethernet hub.
- Provides visual feedback for network management, showing both link integrity and packet transmission and reception.
- Includes all components required to connect to a 10BASE-T Ethernet wall plate. (See your network administrator for more information.)



\* See back page for FCC certification information.



## Overview

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The Apple® Ethernet family of networking components provides a modular, “plug-and-play” approach to connecting to an Ethernet network. The consistent design of Apple Ethernet components means that you can attach the appropriate Apple

Ethernet media adapter to your Macintosh® computer and connect to any industry-standard Ethernet media. This modular access to Ethernet offers you high-performance networking with advantages in both ease-of-use and affordability. You need to

purchase only the specific media adapter that fits into your environment. To use Apple Ethernet components, simply connect the network cables to the media adapter and plug the adapter into your Macintosh computer.