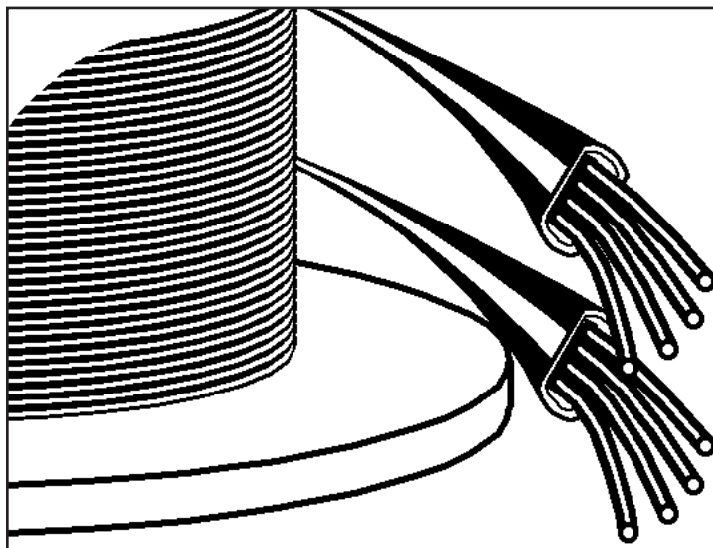




BLACK BOX[®]

NETWORK SERVICES

LEVEL 4 UTP CABLES



These unshielded twisted-pair cables are exactly what you need for your 10BASE-T and 16-Megabit Token Ring Applications.

Key Features

- ▶ **Designed especially for extended-reach, high-speed LAN applications.**
- ▶ **Low crosstalk and attenuation for high-speed data transmissions**
- ▶ **Meet the industry standard for Level 4 cable (and Levels 1, 2, and 3 as well).**
- ▶ **Telco connectivity for easy installation.**
- ▶ **Provides flexibility for future network upgrades.**

The two most popular LAN technologies, Token Ring and 10BASE-T Ethernet, are designed to operate over unshielded twisted-pair (UTP) cable. But there are different grades of UTP cable, and using the wrong one in your application can spell disaster. As data-transmission speeds increase, it's becoming more and more important to get the right cable for your application.

We know how important it is to get the right cables, so our cables conform to the guidelines the cabling industry set forth. These guidelines class the various types of cable according to their transmission characteristics, and match them to the applications they're best suited for. So you can identify the best cable for your application.

Our Level 4 UTP cable meets the stringent requirements set for 16-Megabit Token Ring and extended-distance 10BASE-T Ethernet.

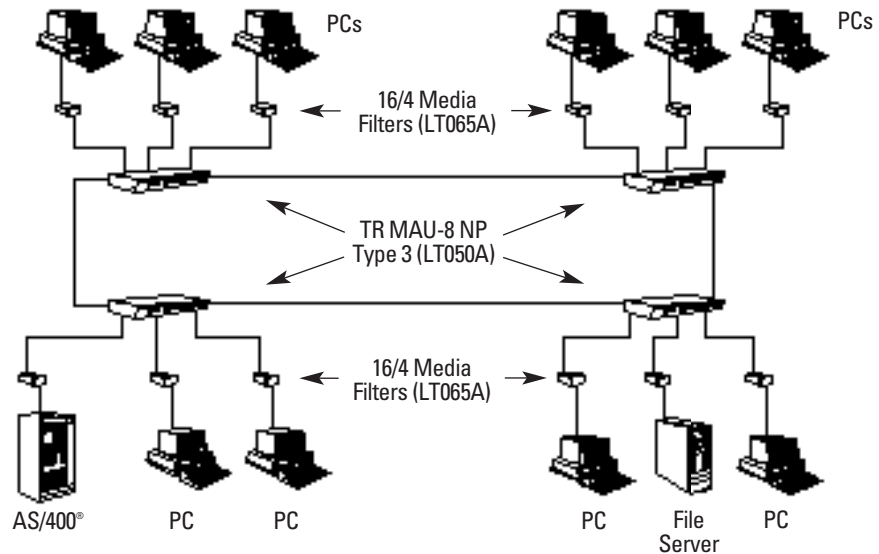
With high-rejection characteristics for Near End crosstalk (NEXT), low attenuation, low capacitance, and the correct impedance for your high-speed data-communications devices, these cables will help you get the most out of your Token Ring or 10BASE-T LAN.

Our cables come in a variety of lengths and numbers of cable pairs. And they come with our lifetime guarantee. So you can be certain that if there's anything wrong with your high-speed LAN, it's not these cables.

Typical Applications

You need absolutely reliable cabling for your high-speed network. That's the Level 4 cables from Black Box.

Why trust your 16-Megabit Token Ring or extended-distance 10BASE-T network to anything less than Level 4 cable?



Technically Speaking

Here's why you should use Level 4 cable:

- More than half of all network problems are cable-related. Often they're a direct result of inferior-grade cable or poor installation workmanship.
- Near End Differential CrossTalk (NEXT) is electrical noise on a cable caused by fluorescent lighting or induced signals from an adjacent pair of wires.
- Attenuation is the decrease in signal strength as data travels through the cable.
- Capacitance is the distortion of electrical signals caused by adjacent pairs of wires. The result is attenuation, which increases with the frequency of the signal. That's why high-speed LAN transmissions need the low capacitance of Level 4 cables.
- For equipment to work properly in a LAN, the impedance of the cables must match the impedance of the connected devices. A mismatch can shrink your transmission distances, and even damage your devices' output circuitry.

Additional equipment you may need

- To expand your existing Token Ring Network, consider our Network Interface Cards (NICs). We have them for IBM® PC, AT®, and PS/2® computers (LT110-C, LT111-C, LT112-C).
- For extended-distance 10BASE-T applications, consider our VolksNet™ concentrator (LE109A) or Twisted-Pair Hub (LE110A). Both support up to 12 LAN users, and mesh perfectly with our Level 4 UTP cable.

Specifications

Speed: 20 Mbps

Resistance: 100 ohms ± 15

Capacitance: 14 pF/ft.

Attenuation: 25 dB/1000 ft. at 16 MHz

Conductor type: 24 AWG solid bare copper



Black Box offers the best warranty program in the industry—Fido Protection®. For more information, request **FaxBack 22512**.

Ordering Information

ITEM	CODE
Level 4 PVC 2 Pair Cable	EYN715-CABL
152.4-m (500-ft.)	EYN715A-0500
304.8-m (1000-ft.)	EYN715A-1000
Level 4 PVC 3 Pair Cable	EYN725-CABL
152.4-m (500-ft.)	EYN725A-0500
304.8-m (1000-ft.)	EYN725A-1000
Level 4 PVC 4 Pair Cable	EYN735-CABL
152.4-m (500-ft.)	EYN735A-0500
304.8-m (1000-ft.)	EYN735A-1000
Level 4 Plenum 2 Pair Cable	EYN716-CABL
152.4-m (500-ft.)	EYN716A-0500
304.8-m (1000-ft.)	EYN716A-1000
Level 4 Plenum 3 Pair Cable	EYN726-CABL
152.4-m (500-ft.)	EYN726A-0500
304.8-m (1000-ft.)	EYN726A-1000
Level 4 Plenum 4 Pair Cable	EYN736-CABL
152.4-m (500-ft.)	EYN736A-0500
304.8-m (1000-ft.)	EYN736A-1000