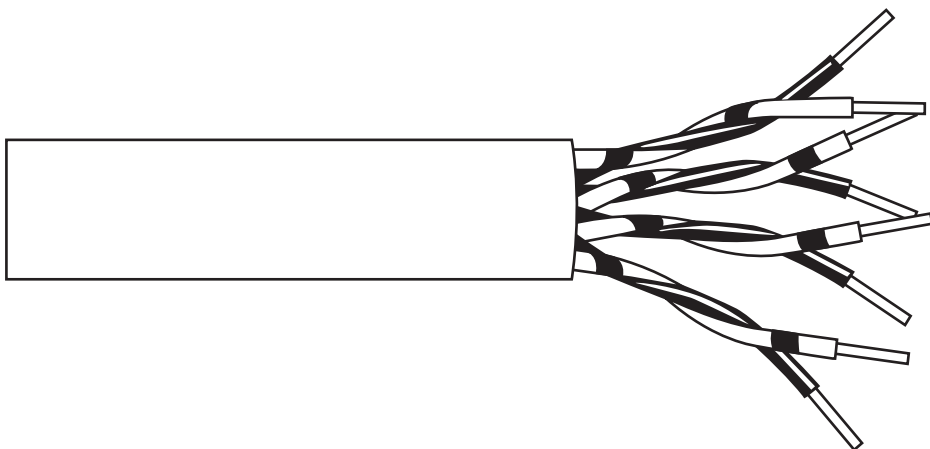


BLACK BOX[®]

NETWORK SERVICES

CAT5E UNSHIELDED BULK CABLES (STRANDED)



**Stranded 100-MHz
CAT5e cable for
short runs and
patch panels.**

Key Features

- ▶ **For use as a horizontal cable, a patch cable, and desktop runs.**
- ▶ **ETL verified to TIA-568-A Category 5e requirements.**
- ▶ **Constructed of stranded 24-AWG wire.**
- ▶ **Low attenuation and near-end crosstalk (NEXT) provide excellent high-speed transmission.**
- ▶ **Meet all appropriate NEC and IEEE 383 requirements.**
- ▶ **UL[®] listed, CSA approved.**

Don't have that far to go? Our new CAT5e Unshielded Bulk Cables (Stranded) deliver high speeds for horizontal runs, desktop runs, and patch cabling.

The cables feature 4 pairs of stranded 24-AWG wire, and they

are built for transmissions up to 100 MHz. Low attenuation and near-end crosstalk (NEXT) specs mean these cables provide excellent high-speed communications.

UL[®] listed and CSA approved, the CAT5e Unshielded Bulk

Cables (Stranded) also meet all appropriate NEC[®] and IEEE 383 requirements.

The cables come in 500-ft. (152.4-m) and 1000-ft. (304.8-m) spools and are available with blue or beige PVC jacketing.

Category 5 cabling is good, solid cable for 100-Mbps LANs. The standard has been around since 1991.

CAT5 supports voice or data at 100 MHz over 22 or 24 AWG. If you still have a lot of 10-Mbps equipment, this cabling will serve your needs for quite a while. It also handles 100-Mbps Fast Ethernet very well. But if you're running up against the performance limits of

a Fast Ethernet network, you should upgrade your cable to CAT5e.

CAT5e (a TIA/EIA standard since November 1999) enables higher speeds with lower crosstalk, and it improves upon CAT5's performance requirements. With these improvements, you can expect problem-free, full-duplex, 4-pair, 100-MHz Ethernet transmissions over your UTP cable.

It's likely that most new installations will require CAT5e cabling and components. Many manufacturers began selling Category 5e cable some time ago, but pre-ratification cables might not meet all the requirements of the final standard.

Call Black Box Technical Support at 724-746-5500 for advice about making a major cabling investment.

Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognize any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.

- It's 9 p.m. and you need help, but your vendor's tech support line is closed.

According to a survey by Data Communications magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network

managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best

support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.

Technically Speaking

Shielded vs. unshielded cable. The environment determines whether cable should be shielded or unshielded. Quiet office environments, busy retail establishments, and industrial workshops all require different levels of shielding.

Shielding is the sheath surrounding and protecting the wires of the cable from electromagnetic leakage and interference (EMI). This activity is commonly referred to as noise. Sources of EMI in the workplace include elevator motors, fluorescent lights, generators, air conditioners, and photocopiers.

To protect your data from high EMI, choose a shielded cable. Foil is the most basic cable shield, but a copper-braid shield provides more protection.

Use a foil-shielded cable in busy office or retail environments. For industrial environments, you might want to choose a copper-braid shield. For quiet office environments, choose unshielded cable.

Stranded vs. solid conductor. Stranded cable is for use in shorter runs between network interface cards (NICs) and wallplates, or between concentrators and patch panels, hubs, and other rackmounted equipment. Stranded-conductor cable is much more flexible than solid-core cable. However, attenuation is higher in stranded-conductor cable, so the total length of stranded cable in your system should be kept to a minimum to reduce signal degradation.

Solid cable is for use in runs between two wiring closets or from the wiring closet to a wallplate. Solid-conductor cable shouldn't be bent, flexed, or twisted repeatedly. It's designed for both backbone and horizontal cable runs. Its attenuation is lower than that of stranded-conductor cable.

For more information on how to choose the right cable for your application, call our FREE Tech Support at 724-746-5500, 24 hours a day!

Specifications

ACR (Minimum):
8.9 dB/100 m @ 100 MHz

Approvals:
CSA Listing: STD 214
Communication Cable Type CMG FT4;
ETL Verification: TIA/EIA-568-A Category 5e Requirements;
Flammability: Passes UL® Subject 1581, CSA FT4 and IEEE 383/1974 Tray Cable Flame Test (70,000 BTU/hour);
NEC®: Approved for CM/MP use per NEC 800 by passing UL® Subject 1581;
UL® Listing: Communication Cable per UL® 444 Type CM/MP

Attenuation (Maximum):
26.4 dB/100 m @ 100 MHz

Cable Pair Colors:
Pair 1: White/blue, blue/white;
Pair 2: White/orange, orange/white;
Pair 3: White/green, green/white;
Pair 4: White/brown, brown/white

Conductor Gauge: 24 AWG, 7/32 stranded tinned copper

Construction: Polyolefin insulation, flame-retardant PVC jacket

DC Resistance (Maximum): 26 ohms/ 1000 ft. (9.38 ohms/100 m)

Delay Skew (Maximum):
45 ns/100 m

ELFEXT (Minimum):
23.8 dB @ 100 MHz

Frequency: Up to 100 MHz

Impedance: 100 ± 15 ohms

Mutual Capacitance (Maximum):
17 pF/ft.

NEXT (Minimum):
35.3 dB @ 100 MHz

PS-ACR (Minimum):
5.9 dB @ 100 MHz

PS-ELFEXT (Minimum):
20.8 dB @ 100 MHz

PS-NEXT (Minimum):
32.3 dB @ 100 MHz

Return Loss (Minimum):
19 dB @ 100 MHz

Temperature/Voltage Rating (Maximum): -4 to +167°F (-20 to +75°C)/300 volts

Velocity of Propagation (Nominal):
69%

Weight: 25 lb./1000 ft. (11.3 kg/304.8 m)



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

Ordering Information

ITEM

CODE

CAT5e Unshielded 100-MHz Bulk Cables, 24 AWG, Stranded, 4-Pair, PVC, Spool

Beige

500-ft. (152.4-m)EVNSL08A-0500

1000-ft. (304.8-m)EVNSL08A-1000

Blue

500-ft. (152.4-m)EVNSL09A-0500

1000-ft. (304.8-m)EVNSL09A-1000