

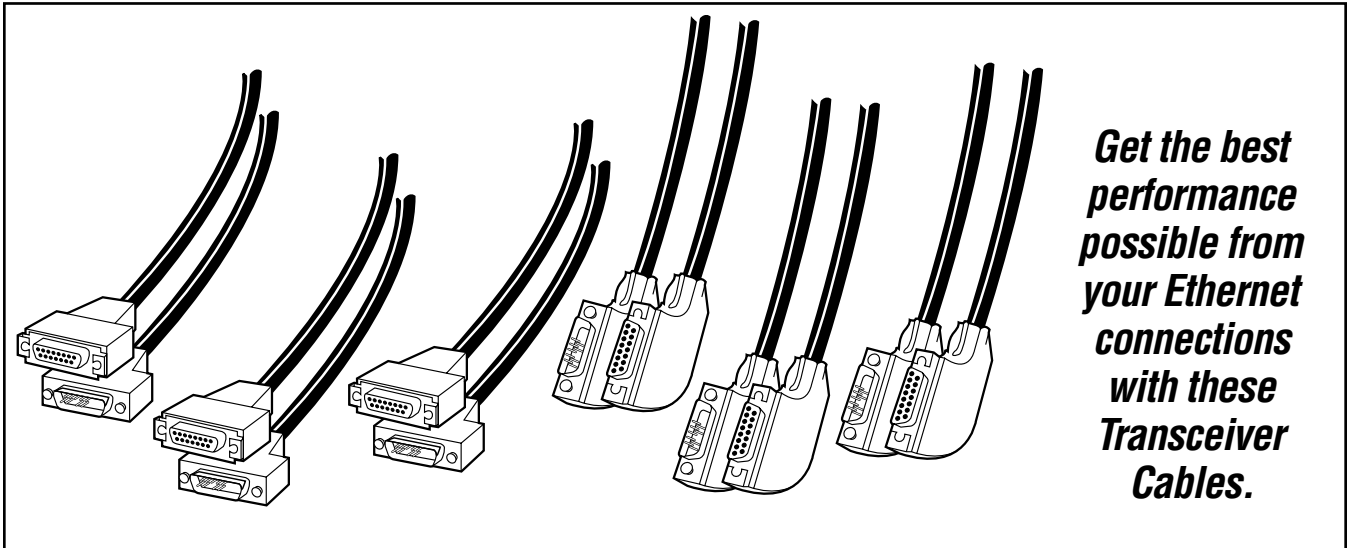
© 2004. All rights reserved.  
Black Box Corporation.

# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

Black Box Corporation • 1000 Park Drive • Lawrence, PA 15055-1018 • Tech Support: 724-746-5500 • [www.blackbox.com](http://www.blackbox.com) • e-mail: [info@blackbox.com](mailto:info@blackbox.com)

## VERSION 2 AND IEEE 802.3 TRANSCEIVER CABLES



*Get the best performance possible from your Ethernet connections with these Transceiver Cables.*

### Key Features

- ▶ **Additional noise protection in high-noise environments.**
- ▶ **Reduced signal breakup at maximum transmission distances.**
- ▶ **Industrial or office environment cable available in two standard Ethernet versions.**
- ▶ **Straight and right-angle connectors available.**
- ▶ **PVC or plenum versions.**

The right connections are vital to the trouble-free operation of your network. You can lose performance drastically, for example, by getting false or excessive collision indications on your network when your cable is not grounded to the right pin. That's why you need BLACK BOX<sup>®</sup> Version 2 and IEEE 802.3 Transceiver Cables. Available in two versions, these cables are perfect for any operating environment. The Industrial version is best for in-wall installations from the Ethernet transceiver to a wallplate.

We also have an Office Environment Transceiver Cable when you need to run through tight spaces from the wall plate to your equipment. This cable is lightweight and flexible enough to be easily twisted, turned, and looped around office furniture

up to 16 feet (4.8 m) from the wallplate.

The plenum versions of these cables meet all NEC<sup>®</sup> Compliant Cable Codes for air plenum installation; PVC versions are also available.

Transceiver Cables are available with straight connectors or right-angle connectors. Right-angle connectors enable you to make hook-ups where space is at a premium. Right-angle hoods at each end of the cables have male or female connectors that make installation easy.

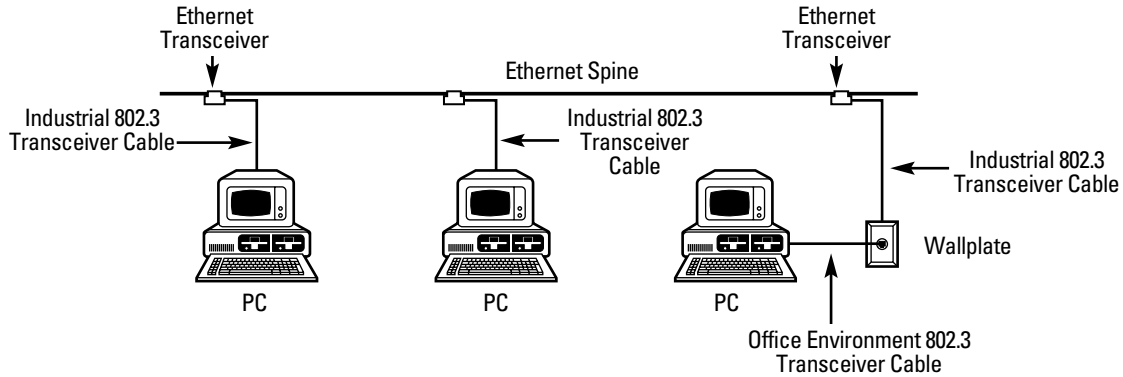
You can run the Industrial Transceiver Cable to a maximum length of 164 feet (50 m) without significant signal degradation. Also, the isolated ground shield of all 802.3 cable gives additional protection in noisy operating environments.

The results you get from your network will depend in large part on the cable you can choose to run it. Your data is too valuable to be crippled by the wrong cable or cable that's less than top quality. That's why we use only the finest components on the market.

### Technically Speaking

You can run 802.3 cable from any Ethernet transceiver to a computer. Equipment that needs this type of cable has all shields of the individual signal and power pairs connected to Pin 4. Data General, for example, builds its computers to comply with IEEE 802.3.

# Run your Ethernet network on IEEE 802.3 Transceiver Cables.



## Specifications

**Cable Construction:** Gray PVC or plenum jacket

**Conductor Gauge:** 20 AWG

**Conductor Material:** Tinned annealed copper

**Number of Conductors:** 9

**Outside Diameter:** 0.4 inch

**Resistance:** 10.4 ohms per 1000 ft. (304.8 m) at 20°C (68°F)

**Shield:** Individually shielded pairs, 100% foil and braided

## Technically Speaking

- There are three Ethernet standards; Version 1, Version 2, and 802.3. In Version 2, all shields are connected to Pin 1 and the AUI connector shell. Most Ethernet cables are built this way.
- In Version 802.3, all shields of the individual signal and power pairs are connected to Pin 4. The overall AUI cable shield is connected to the AUI connector shell to provide a cable ground.
- Most Ethernet Version 1 equipment uses Version 2-type cables.

## Ordering Information

Office Environment Ethernet Transceiver Cable	Ethernet Standard	3-ft. (0.9-m)	6-ft. (1.8-m)	10-ft. (3-m)	15-ft. (4.5-m)	Custom Lengths
Straight Connectors (PVC)	Version 2.0	LCN210	LCN210	LCN210	LCN210	LCN210
Straight Connectors (PVC)	IEEE 802.3	LCN215	LCN215	LCN215	LCN215	LCN215
Right-Angle Connectors (PVC)	IEEE 802.3	LCN216	LCN216	LCN216	LCN216	LCN216

Industrial Ethernet Transceiver Cable	Ethernet Standard	10-ft. (3-m)	15-ft. (4.5-m)	30-ft. (9.1-m)	50-ft. (15.2-m)	150-ft. (45.7-m)	Custom Lengths
Straight Connectors (PVC)	Version 2.0	LCN200	LCN200	LCN200	LCN200	LCN200	LCN200
Straight Connectors (Plenum)	Version 2.0	LCN250	LCN250	LCN250	LCN250	LCN250	LCN250
Straight Connectors (PVC)	IEEE 802.3	LCN205	LCN205	LCN205	LCN205	LCN205	LCN205
Right-Angle Connectors (PVC)	IEEE 802.3	LCN206	LCN206	LCN206	LCN206	LCN206	LCN206
Straight Connectors (Plenum)	IEEE 802.3	LCN255	LCN255	LCN255	LCN255	LCN255	LCN255
Right-Angle Connectors (Plenum)	IEEE 802.3	LCN256	LCN256	LCN256	LCN256	LCN256	LCN256



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