

## CAT5 Shielded Twisted Pair (STP) Patch Cables



**Send data up to 100 Mbps through factories, labs, showrooms, and other electromagnetically "noisy" or susceptible environments.**

## FEATURES

- Foil shield and drain wire keep noise out and intrinsic noise in.
- Meets or exceeds all standards for Category 5 cable.
- Pinned and paired to EIA/TIA-568 specifications.
- Stranded riser version available in custom lengths.

## OVERVIEW

Regular unshielded twisted-pair (UTP) cable is fine for most sites. It's useful where the electronic-noise sources might consist of a server or two, a laser printer, a few relatively distant fluorescent lights, and somebody's old desktop radio.

But you know that's not going to work at your site. Maybe you need to route your network cable next to an elevator, a compressor, a belt-drive motor, or a big bank of fluorescents; places where the electromagnetic and radio-frequency interference (EMI/RFI) would wreak havoc with unshielded cable.

Or maybe you need to run cable through Intensive Care, or close to sensitive detection equipment. Unshielded cables could themselves cause harmful interference in this application.

Our Shielded Twisted-Pair (STP) cables are tailor-made for these environments. The wires that carry data through these cables are surrounded by a shielding layer of aluminum-polyester foil that keeps outside noise out and intrinsic noise in, along with a drain wire that diverts interference to ground. Even the cable plugs are shielded!

These four-pair cables meet or exceed all Category 5 standards. They're ready for 100-Mbps data traffic whenever you are. And, though there is no definitive EIA/TIA standard for STP cabling, these cables are also built, pinned, and paired to match every part of the EIA/TIA-568 UTP specifications.

The stranded-conductor, riser-rated version (EVNSL60) is available in several stock lengths and in custom lengths as well.

The solid-conductor plenum-rated version (EVNSL71) is available in a wider variety of stock lengths. Call for a quote on a custom length. Keep in mind, large orders get a break on price, so buy in quantity and save!

## TYPICAL APPLICATION

Run 100BASE-T cable closer to factory floors, labs, or your airport's generators and X-ray machines than you thought possible.

## 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 far 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.



Molded boots



Snagless boots

## TECH SPECS

**Attenuation** — Maximum worst pair, per 328 ft. (100 m): 22 dB at 100 MHz

**Cable Type** — PVC: 4-pair stranded STP;  
Plenum: 4-pair solid STP

**Compliance** — UL®/ETL Verified for Category 5

**Conductor Gauge** — PVC: 26 AWG;  
Plenum: 24 AWG

**Conductor Material** — PVC: Stranded copper (7 x 34);  
Plenum: Solid copper

**Frequency** — Up to 100 MHz

**Impedance** — 100 ±15 ohms from 1 to 100 MHz

**Jacket** — PVC: 0.022" (0.5 mm) thick;  
Plenum: 0.033" (0.43 mm) thick

**Mutual Capacitance** — 56 pF/ft. maximum

**Near-End Crosstalk** — Minimum, worst pair, per minute:  
35.3 dB at 100 MHz

**Number of Conductors** — Eight (four pairs)

**Outer Diameter** — PVC: 0.22" (5.7 mm);  
Plenum: 0.23" (5.8 mm)

**Pairing** — As per EIA/TIA-568: 1 & 2, 3 & 6, 4 & 5, 7 & 8

**Pinning** — Straight-through (1 to 1, 2 to 2, etc.)

**Shielding** — Aluminum Mylar® tape;  
PVC: With tinned plated 26 AWG stranded drain wire;  
Plenum: With tinned plated 24 AWG drain wire

**Wiring Type** — TIA/EIA-568-B

**Connectors** — EVNSL60T–EVNSL64T, EVNSL171GY, EVNSL171BL:  
(2) RJ-45 M (plastic) with molded boots;  
EVNSL60BL, EVNSL60GR, EVNSL60RD, EVNSL60YL, EVNSL60:  
(2) RJ-45 M (plastic) with snagless boots

Item	Code
CAT5 Shielded Twisted-Pair (STP) Cable, 4-Pair, 568B, RJ-45–RJ-45	
Stranded, PVC, CMR, Riser	
Blue	
3-ft. (0.9-m)	EVNSL61T-0003
6-ft. (1.8-m)	EVNSL61T-0006
10-ft. (3.0-m)	EVNSL61T-0010
20-ft. (6.1-m)	EVNSL60BL-0020
Custom Lengths	EVNSL60BL
Green	
3-ft. (0.9-m)	EVNSL62T-0003
6-ft. (1.8-m)	EVNSL62T-0006
10-ft. (3.0-m)	EVNSL62T-0010
20-ft. (6.1-m)	EVNSL62T-0020
Custom Lengths	EVNSL60GR
Red	
3-ft. (0.9-m)	EVNSL63T-0003
6-ft. (1.8-m)	EVNSL63T-0006
10-ft. (3.0-m)	EVNSL63T-0010
20-ft. (6.1-m)	EVNSL63T-0020
Custom Lengths	EVNSL60RD
Yellow	
3-ft. (0.9-m)	EVNSL64T-0003
6-ft. (1.8-m)	EVNSL64T-0006
10-ft. (3.0-m)	EVNSL64T-0010
20-ft. (6.1-m)	EVNSL64T-0020
Custom Lengths	EVNSL60YL
Gray	
3-ft. (0.9-m)	EVNSL60T-0003
6-ft. (1.8-m)	EVNSL60T-0006
10-ft. (3.0-m)	EVNSL60T-0010
20-ft. (6.1-m)	EVNSL60T-0020
Custom Lengths	EVNSL60
Solid, Plenum-Rated, NEC CMP	
Gray	
2-ft. (0.6-m)	EVNSL171GY-0002
5-ft. (1.5-m)	EVNSL171GY-0005
10-ft. (3.0-m)	EVNSL171GY-0010
15-ft. (4.6-m)	EVNSL171GY-0015
20-ft. (6.1-m)	EVNSL171GY-0020
25-ft. (7.6-m)	EVNSL171GY-0025
50-ft. (15.2-m)	EVNSL171GY-0050
100-ft. (30.5-m)	EVNSL171GY-0100
Blue	
2-ft. (0.6-m)	EVNSL171BL-0002
5-ft. (1.5-m)	EVNSL171BL-0005
10-ft. (3.0-m)	EVNSL171BL-0010
15-ft. (4.6-m)	EVNSL171BL-0015
20-ft. (6.1-m)	EVNSL171BL-0020
25-ft. (7.6-m)	EVNSL171BL-0025
50-ft. (15.2-m)	EVNSL171BL-0050
100-ft. (30.5-m)	EVNSL171BL-0100

NOTE: Only custom-length PVC cables have snagless boots. All other cables listed in this data sheet have molded boots.