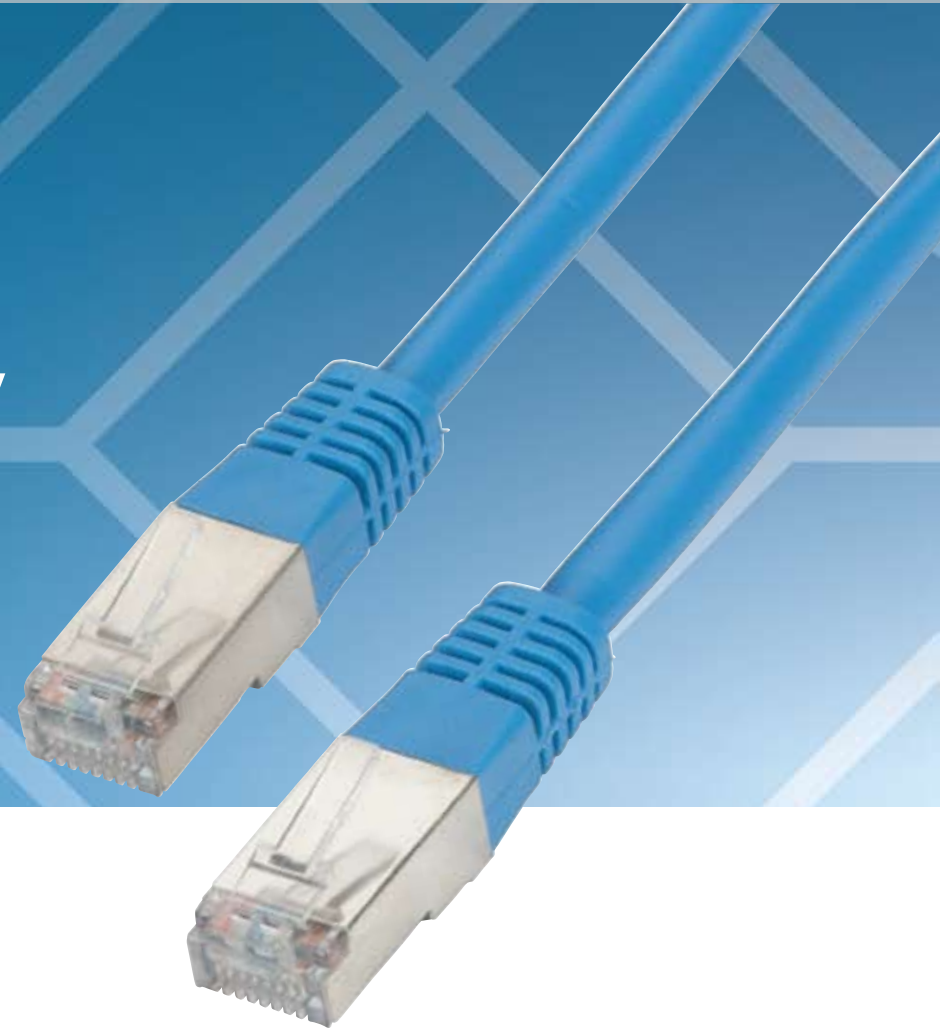## CAT5 Shielded Twisted-Pair (STP) Patch Cables

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

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 these applications.

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 your 100-Mbps data traffic. And, although 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 (EVNSL60T, etc.) is available in several stock lengths and in custom lengths as well.

The solid-conductor plenum-rated version (EVNSL171, etc.) is available in a wider variety of stock lengths. Call for a quote on a custom lengths. Keep in mind, large orders get a discount, so buy in quantity and save!

Typical Application

Run 100BASE-TX 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.

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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 — T568B

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

Molded boots

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.

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