BLACK BOX ®
NETWORK SERVICES

SHIELDED TWISTED-PAIR (STP) CABLE

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

Key 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.*

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; what's more, they're snagless too—they have rounded corners that don't get stuck when the cable is pulled through walls or plenums.

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 your airport's generators and X-ray machines than you thought possible.

▼ *Ordering Information*

ITEM		CODE

Shielded Twisted-Pair (STP) Cable, 4-Pair, 568B, RJ-45–RJ-45

Stranded, PVC, CMR, Riser

3-ft. (0.9-m)	Gray	EVNSL60-0003
	Blue	EVNSL60BL-0003
	Green	EVNSL60GR-0003
	Red	EVNSL60RD-0003
	Yellow	EVNSL60YL-0003
6-ft. (1.8-m)	Gray	EVNSL60-0006
	Blue	EVNSL60BL-0006
	Green	EVNSL60GR-0006
	Red	EVNSL60RD-0006
	Yellow	EVNSL60YL-0006
10-ft. (3-m)	Gray	EVNSL60-0010
	Blue	EVNSL60BL-0010
	Green	EVNSL60GR-0010
	Red	EVNSL60RD-0010
	Yellow	EVNSL60YL-0010
20-ft. (6.1-m)	Gray	EVNSL60-0020
	Blue	EVNSL60BL-0020
	Green	EVNSL60GR-0020
	Red	EVNSL60RD-0020
	Yellow	EVNSL60YL-0020
Custom lengths	Gray	EVNSL60
	Blue	EVNSL60BL
	Green	EVNSL60GR
	Red	EVNSL60RD
	Yellow	EVNSL60YL

Solid, Plenum-Rated, NEC CMP, Gray

2-ft. (0.6-m)	EVNSL71-0002
5-ft. (1.5-m)	EVNSL71-0005
10-ft. (3-m)	EVNSL71-0010
15-ft. (4.6-m)	EVNSL71-0015
20-ft. (6.1-m)	EVNSL71-0020
25-ft. (7.6-m)	EVNSL71-0025
50-ft. (15.2-m)	EVNSL71-0050
100-ft. (30.5-m)	EVNSL71-0100
Custom lengths	EVNSL71

▼ Specifications

Compliance —
EVNSL60: NEC® CM, UL® AWM style 2552;
EVNSL71: NEC CMP (to 75˚C), CSA PCC FT6/FT4 (to 60˚C), UL/ETL verified for Category 5

Nominal Velocity of Propagation (NVP) —
EVNSL60: 71%; EVNSL71: 72%

Resistance — EVNSL60: 39.7 mΩ/ft. (130.2 mΩ/m); EVNSL71: 28.6 mΩ/ft. (93.8 mΩ/m)

Mutual Capacitance — 15 pF/ft. (49.2 pF/m) maximum at 1 MHz

Impedance — 100 ±15 ohms from 1 to 100 MHz

Attenuation — Maximum worst pair, per 1000 ft. (304.8 m): From 20 dB at 10 MHz to 67 dB at 100 MHz

Near-End Crosstalk — Minimum, worst pair, per minute: From 47 dB at 10 MHz to 32 dB at 100 MHz

Conductor Material—
EVNSL60: Stranded copper (7 x 34);
EVNSL71: Solid copper

Number of Conductors —
Eight (four pairs)

Wire Gauge —
EVNSL60: 26 AWG;
EVNSL71: 24 AWG

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

Pairing — As per EIA/TIA-568: 1 & 2, 3 & 6, 4 & 5, 7 & 8; however, EVNSL60 wire colors do not conform to either 568A or 568B

Shielding — 0.002" (50.8-µm) aluminum-polyester foil tape, 20% minimum overlap; EVNSL60: With tinned plated 26-AWG stranded drain wire; EVNSL71: With tinned plated 24-AWG drain wire

Jacket —
EVNSL60: PVC, 0.022" (0.5 mm) thick;
EVNSL71: Tek-Flex® polymer, 0.014" (0.3 mm) thick

Connectors — (2) RJ-45 M (plastic) with snagless boots

Tensile Strength —
EVNSL71: 15 lb./1000 ft.; 13 lb. (5.9 kg) pulling weight

Bend Radius —
EVNSL71: 0.2" (5.1 mm)

Outer Diameter —
EVNSL60: 0.16" (4.1 mm);
EVNSL71: 0.22" (5.6 mm)