

23 AWG Solid Copper, Screened/Foiled Twisted Pair with Overall Braided Shield, LSZH/PVC Jacket — DHRUVA Connect

1. Product Overview

The DHRUVA Connect Category 6 S/FTP LAN cable is an enhanced-performance, fully screened copper cabling solution designed to support Gigabit Ethernet (1000BASE-T) applications at a rated bandwidth of up to 250 MHz.

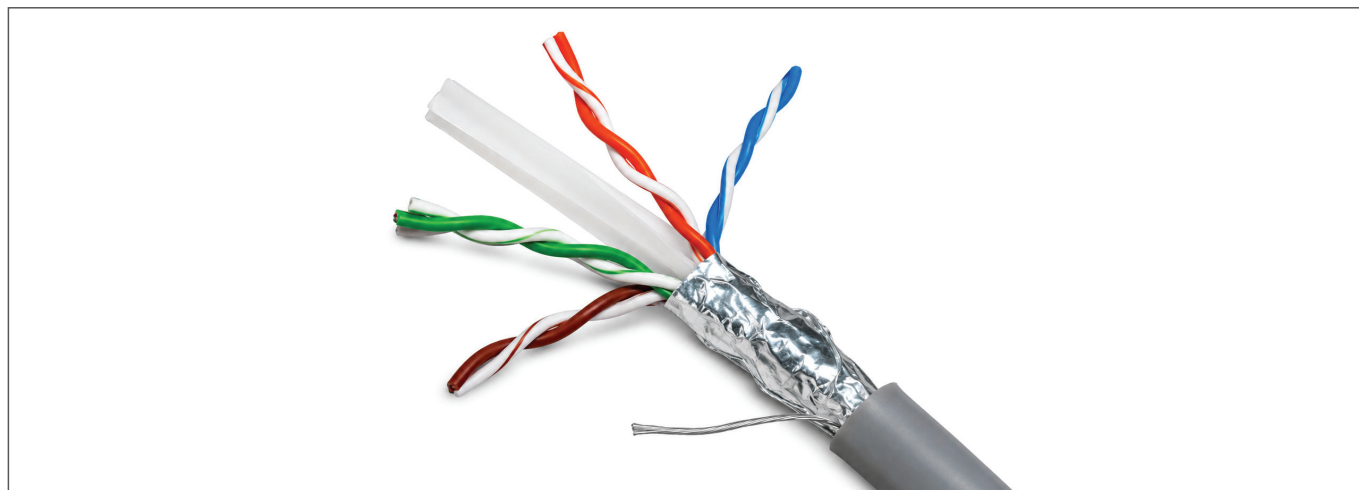
Each of the four twisted pairs is individually wrapped in polyester tape and aluminium foil with an integrated drain wire, and the pair group is further enclosed within an overall tinned-copper braided shield. This dual-layer screening provides strong protection against electromagnetic interference (EMI) and minimizes signal loss, while also improving the cable's mechanical robustness compared with unshielded designs. Construction and transmission performance meet or exceed the requirements of TIA/EIA-568-C.2.

2. Key Features

- Fully compliant with Category 6 (CAT 6) performance specifications.
- 4-pair shielded twisted pair (S/FTP) construction for enhanced noise immunity.
- 23 AWG solid bare-copper conductors for low insertion loss and reliable long-run conductivity.
- Individual pair screening (polyester tape and aluminium foil with drain wire) plus an overall tinned-copper braided shield.
- High-Density Polyethylene (HDPE) insulation for consistent electrical performance.
- Flame-retardant (FR) PVC or Low Smoke Zero Halogen (LSZH) jacket options.
- Verified compliant with TIA/EIA-568-C.2 standards.
- Packaged in an easy-to-pull box for simplified, snag-free installation.

3. Cable Construction

Cross-sectional view of the Category 6 S/FTP cable construction, illustrating the individually foil-screened twisted pairs, overall braided shield, and outer jacket:



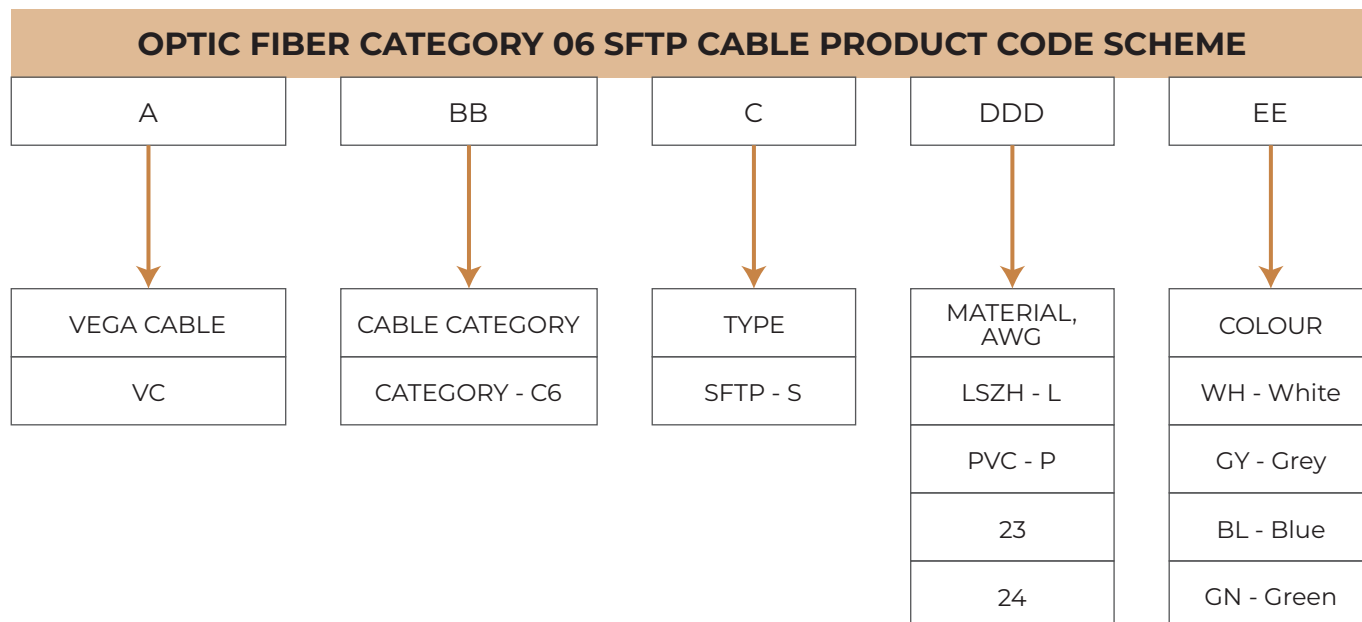


Category 6 S/FTP LAN Cable

4. Technical Specifications

Parameter	Specification
Category	Category 6 S/FTP solid cable
Number of Pairs	4
Number of Conductors	8
Conductor Material	Bare solid copper
Conductor Gauge	23 AWG
Conductor Outer Diameter	0.565 ± 0.005 mm
Insulation Material	High-Density Polyethylene (HDPE)
Pair Construction	2 insulated conductors twisted together
Pair Shielding	Individual pair wrap — polyester tape and aluminium foil, with drain wire
Overall Shield	Aluminium/polyester foil with tinned-copper braid
Outer Jacket Material	FR PVC / LSZH (per part number)
Overall Cable Diameter	7.5 mm (nominal)
Rated Bandwidth	250 MHz
Transmission Standard	Gigabit Ethernet (1000BASE-T)
Put-Up / Packaging	305 m or 500 m per wooden drum
Applicable Standards	TIA/EIA-568-C.2
Certifications	CE, UL, RoHS, ETL

5. Ordering Information



Part Number	Description
VC-C6-S-L23-GY	DHRUVA Connect Category 6 S/FTP solid cable, 23 AWG, LSZH jacket, 305 m, Grey

6. Compliance & Certification

Product design and transmission performance conform to TIA/EIA-568-C.2 category requirements, and the cable is certified to CE, UL, RoHS, and ETL standards, as referenced in the ordering codes above.

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