

23 AWG Solid Copper, Shielded Twisted Pair, LSZH/PVC Jacket — DHRUVA Connect

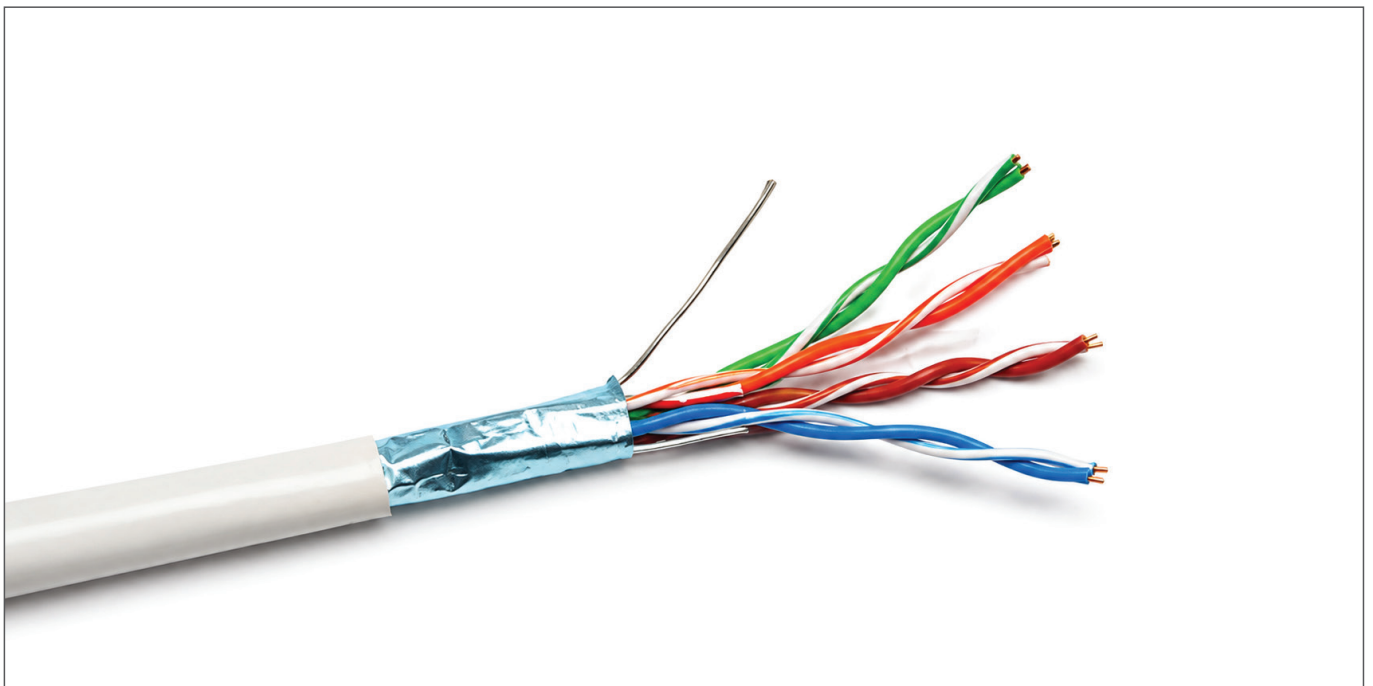
1. Product Overview

The DHRUVA Connect Category 6 F/UTP (foiled/unshielded twisted pair) LAN cable is engineered for high-performance transmission of Gigabit Ethernet (1000BASE-T) traffic, together with digital and analogue voice and video (RGB) signals, across structured cabling networks.

The cable operates at a rated bandwidth of 250 MHz and is constructed with an overall aluminium/polyester foil screen that functions as a Faraday cage, attenuating externally coupled electrical noise while limiting electromagnetic emissions that could otherwise interfere with adjacent equipment. Design and performance exceed the minimum requirements set out in ANSI/TIA/EIA-568-C.2 and ISO/IEC 11801.

2. Key Features

- Fully compliant with Category 6 performance specifications.
- 4-pair foiled/unshielded twisted pair (F/UTP) construction.
- 23 AWG solid bare-copper conductors for low-resistance, high-conductivity signal transmission.
- Polyethylene (PE) primary insulation on each conductor.
- PE cross-web (central separator) to maintain pair geometry and minimise crosstalk.
- Low Smoke Zero Halogen (LSZH) outer jacket option available for enhanced fire and life-safety performance.
- Supplied on an MDF (medium-density fibreboard) reel, individually boxed for shipping and site handling.



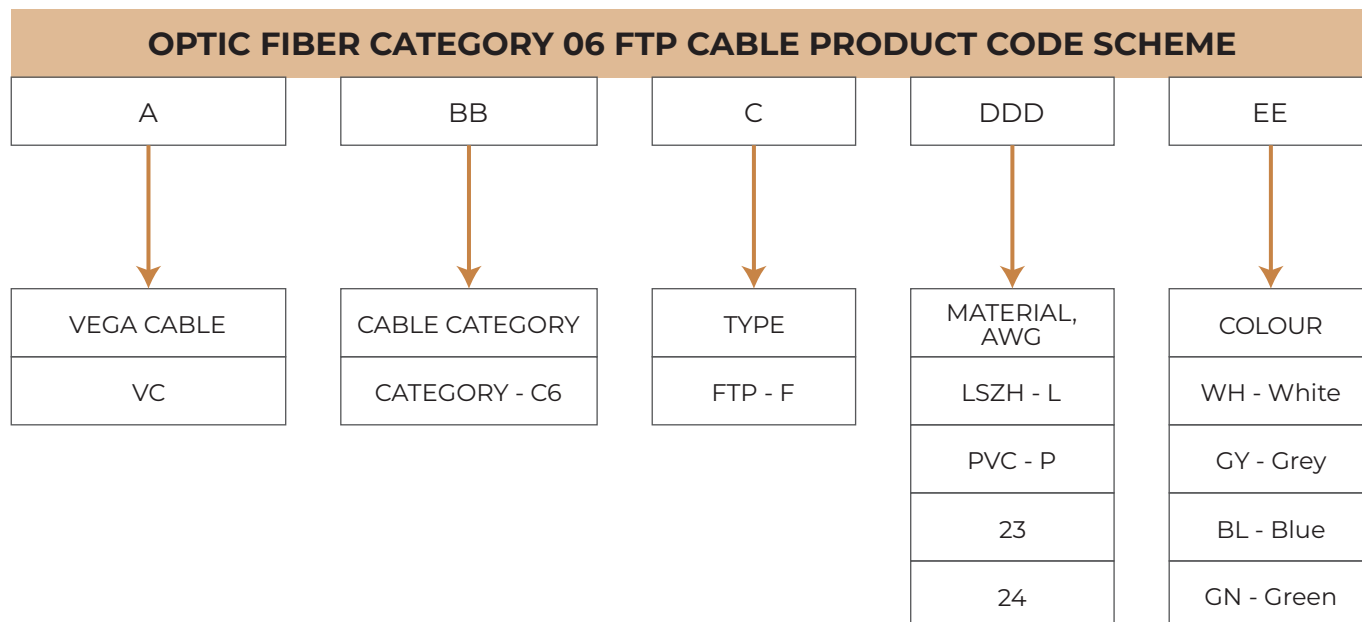


Category 6 F/UTP LAN Cable

3. Technical Specifications

Parameter	Specification
Category	Category 6, F/UTP screened solid-conductor cable
Number of Pairs	4
Number of Conductors	8
Rated Bandwidth	250 MHz
Conductor Gauge	23 AWG
Conductor Material	Bare solid copper
Outer Jacket Material	PVC / LSZH / PE (variant-dependent)
Conductor Outer Diameter	0.565 ± 0.005 mm
Insulation Diameter	1.12 ± 0.04 mm
Sheath Outer Diameter	7.4 ± 0.4 mm
Overall Cable Diameter	7.2 ± 0.3 mm
Shielding	Aluminium / polyester foil (screen) per pair
Pair Construction	2 insulated conductors twisted together
Resistance Unbalance	5% max.
Delay Skew	< 45 ns
Standard Put-Up	305 m per box; 500 m per roll
Certifications	CE, UL, RoHS, ETL

4. Ordering Information



Part Number	Description
VC-C6-F-L23-GY	DHRUVA Connect – Category 6 F/UTP Cable, Solid 23 AWG, LSZH Jacket, 305 m, Grey

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