

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

1. Product Overview

The DHRUVA Connect Category 6A F/UTP LAN cable is an enhanced-performance copper cabling solution engineered for the transmission of high-speed data, for analogue and digital voice/video (RGB) signals over local area networks (LANs). The cable fully supports 10-Gigabit Ethernet (10GBase-T) applications and is rated for operation at a bandwidth of up to 250 MHz

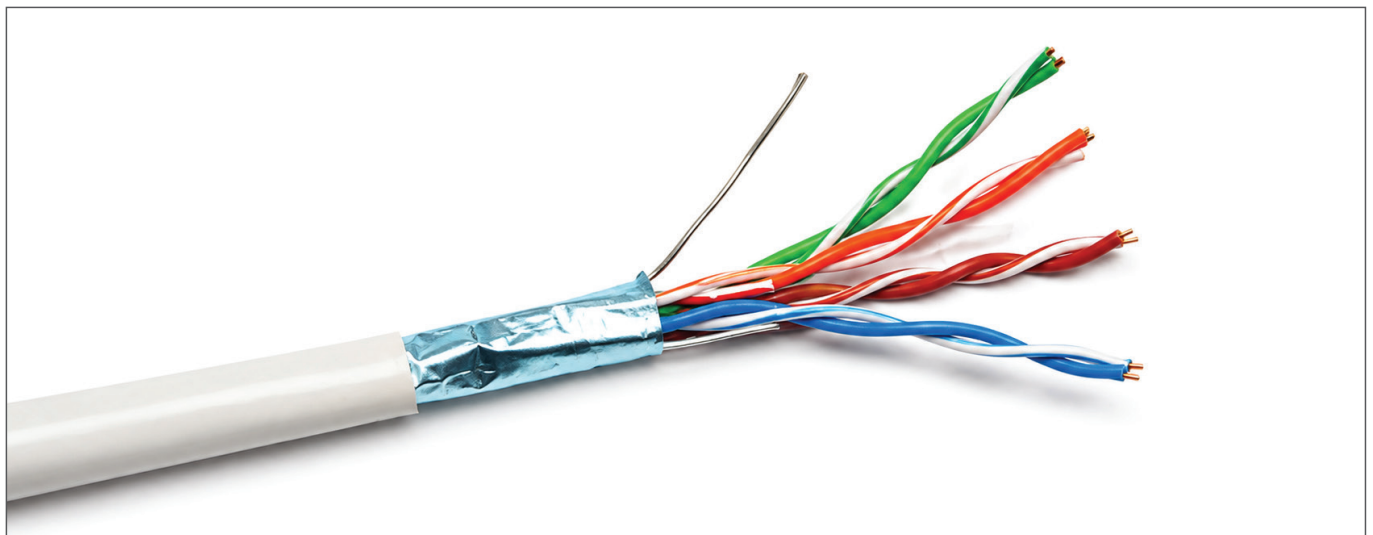
An overall aluminium/polyester foil shield surrounds the four twisted pairs, functioning as a Faraday cage to attenuate incoming electrical noise and to limit electromagnetic radiation that could otherwise interfere with adjacent equipment. Construction and transmission performance meet or exceed the requirements of TIA/EIA-568-C.2 and ISO/IEC 11801.

2. Key Features

- Fully compliant with Category 6 performance specifications, with headroom to Category 6A.
- 4-pair foiled/shielded twisted pair (F/UTP) construction for superior noise immunity.
- 23 AWG solid bare-copper conductors for low insertion loss and reliable long-run conductivity.
- Polyethylene (PE) primary insulation on each conductor.
- PE cross-web separator to maintain consistent pair geometry and reduce crosstalk.
- Low Smoke Zero Halogen (LSZH) jacket option for improved fire safety in enclosed/indoor installations.
- Supplied on an MDF (medium-density fibreboard) cable spool, packaged in a protective box for site handling.

3. Cable Construction

Cross-sectional view of the Category 6A F/UTP cable construction, illustrating the four shielded twisted pairs, central cross-web separator, overall foil shield, and outer jacket:



4. Technical Specifications

Parameter	Specification
Category	Category 6A, F/UTP (foiled twisted pair), solid conductor
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	Polyethylene (PE)
Insulation Diameter	1.12 ± 0.04 mm
Separator	PE cross-web (central filler)
Overall Shield	Aluminium/polyester foil (F/UTP)
Pair Construction	2 insulated conductors twisted together
Outer Jacket Material	PVC / LSZH / PE (per part number)
Overall Cable Diameter	7.2 ± 0.3 mm
Sheath External Diameter	7.4 ± 0.4 mm
Rated Bandwidth	250 MHz
Transmission Standard	Gigabit Ethernet (1000BASE-T) and above
Resistance Unbalance	5% max.
Delay Skew	< 45 ns / 100 m
Put-Up / Packaging	305 m per box (pull-box); 500 m per reel
Applicable Standards	TIA/EIA-568-C.2, ISO/IEC 11801
Certifications	CE, UL, RoHS, ETL

5. Ordering Information

OPTIC FIBER CATEGORY 6A FTP CABLE PRODUCT CODE SCHEME				
A	BB	C	DDD	EE
↓	↓	↓	↓	↓
VEGA CABLE	CABLE CATEGORY	TYPE	MATERIAL, AWG	COLOUR
VC	CATEGORY 6A-6A	FTP - F	LSZH - L	WH - White
			PVC - P	GY - Grey
			23	BL - Blue
			24	GN - Green

Part Number	Description
VC-06-F-L23-GY	DHRUVA Connect Category 6A F/UTP solid cable, 23 AWG, LSZH jacket, 305 m, Grey

6. Compliance & Certification

Product design and transmission performance conform to TIA/EIA-568-C.2 and ISO/IEC 11801 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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