



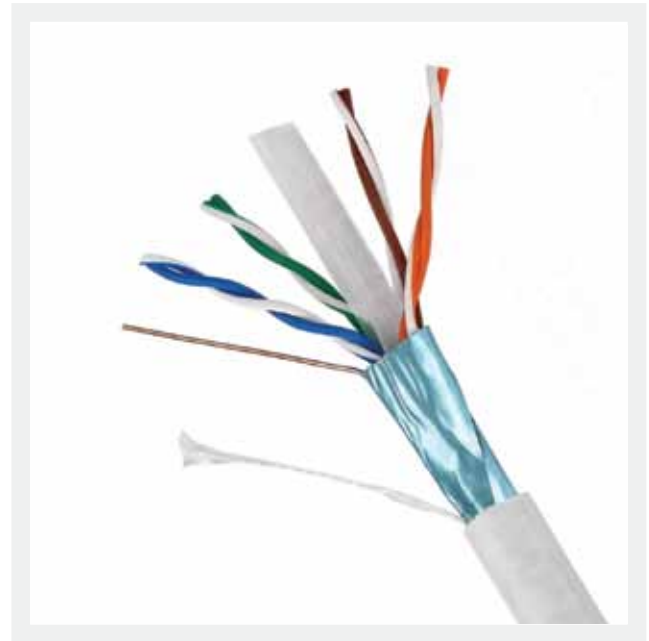
STRUCTURED
CABLING PARTNER

Category 6 F/UTP 4 Pair Cable

OPTIPLUS Category 6 F/UTP (Twisted Pair-Overall Foil Shield) 4 Pair 23AWG cable is a high-speed, high performance data communication cable which provides extra protection from external noise sources and gives excellent quality performance even at risky or unfriendly environments. It is capable of carrying high bit-rate signaling for extended distances in backbone & horizontal applications. It can prove to be a very economical solution for risky environments cabling such as in small or large scale industries, hospitals etc.

Standards

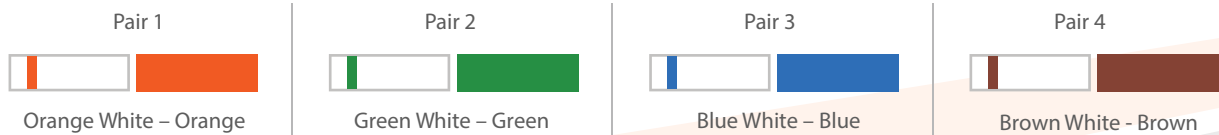
- ANSI/TIA-568-C.2
- TIA/EIA 568-B.2-1
- ISO/IEC 11801
- ISO/IEC 611156-5
- EN 50288-1
- EN 50173-1
- IEEE /802.af, IEEE 802.3at for PoE applications



Key Features:

- Tested up to 250MHz.
- High ACR values-providing low BER (Bit Error-Rate).
- Exceeds Cat 6 performance.
- Extremely high pair-balance-providing excellent EMC (Electromagnetic compatibility).
- Maximum noise immunity and minimum radiations.
- UL94V-0 rated plastic.
- Standard packing will be 305 meter easy pull out box.

Colour Code:



Cable Construction:

Conductor Material	23AWG Solid Bare Copper
Conductor Construction	Solid
Conductor Diameter	0.56mm
Insulation Material	HDPE (HIGH DENSITY POLY ETHYLENE)
Insulation Diameter (approx.mm)	1.05± 0.05mm
Foil	Wrapped with aluminium tape
Pairs Count	4 nos
Jacket Thickness (mm)	0.60mm ± 0.05mm
Jacket Material	PVC/LSZH
Jacket Colour	White, Gray, Blue & Orange
Measurement Marking	Yes

Electrical and Mechanical Characteristics:

- Impedance – 100 Ω ± 15%
- Frequency - 1 MHz to 250 MHz
- DC Resistance - 73 Ω/100m
- Capacitance - 5.6nF/100m
- Propagation Delay Skew - 35 nsec/100m
- Bend Radius - 56mm (min)
- Insulation Resistance - 500 MΩ.km(min)
- Dielectric Strength - 1.0kV d.c. or 0.7kV a.c. for 1min
- Operating Temperature – -20°C to 75°C
- Storage Temperature – 0°C to 80°C

Transmission Characteristics:

Freq. (MHz)	Attenuation (dB) max.	NEXT (dB) min.	PS NEXT (dB) min.	ELFEXT (dB) min.	PSELFEXT (dB) min.	Return Loss (dB) min.
1	2.0	80.0	80.0	82.0	79.0	27.0
4	3.8	65.3	63.3	58.0	55.0	23.0
10	6.0	59.3	57.3	50.0	47.0	25.0
20	8.5	54.8	52.8	44.0	41.0	25.0
31.25	10.7	51.9	49.9	40.1	37.1	23.6
100	19.8	44.3	42.3	30.0	27.0	20.1
200	29.0	39.8	37.8	24.0	21.0	18.0
250	33.0	38.3	36.3	22.0	19.0	17.3

Ordering Information:

PART NUMBER	DESCRIPTION	LENGTH
OP-C6110123/PVC	Category 6 F/UTP 4 Pair Cable PVC	305 mtr
OP-C6110123/LSZH	Category 6 F/UTP 4 Pair Cable LSZH	305 mtr



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