



STRUCTURED
CABLING PARTNER

Category 6 S/FTP 4 Pair Cable

OPTIPLUS Category 6 S/FTP (Foil Twisted Pair-Shielded)

4 Pair 23AWG cable is an advanced solution for very risky environment where cabling systems installed in a critical manner such as in Defense, Aerodromes, Power Plants, Petro Chemical fields etc. Optiplus S/FTP cables provide extra protection from external noise sources with excellent quality performance. It is capable of carrying high bit-rate signaling for extended distances in backbone & horizontal applications.

Standards

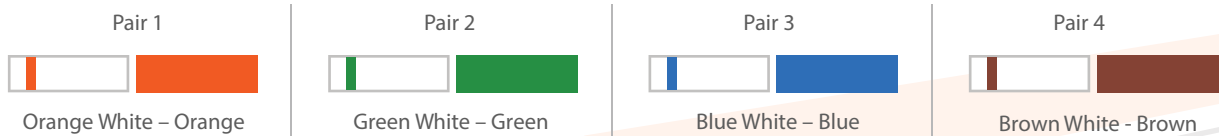
- ANSI/TIA-568-C.2
- TIA/EIA 568-B.2-1
- ISO/IEC 11801
- ISO/IEC 611156-5
- EN 50288-1
- IEEE /802.af, IEEE 802.3at for PoE applications



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	Cellular Polyolefin
Insulation Diameter (approx.mm)	1.36± 0.05mm
Foil	Individual pair wrapped with aluminium tape
Pairs Count	4 nos
Jacket Thickness (mm)	0.55mm ± 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 - 58.2mm (min)
- Insulation Resistance - 500 MΩ.km (min)
- Dielectric Strength - 1.0kV dc or 0.7kV ac for 1 min
- 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	66.0	64.0	66.0	64.0	23.0
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	19.9	44.3	42.3	30.0	27.0	20.1
200	29.1	39.8	37.6	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-C6110423/PVC	Category 6 S/FTP 4 Pair Cable PVC	305 mtr
OP-C6110423/LSZH	Category 6 S/FTP 4 Pair Cable LSZH	305 mtr



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