



OPTIPLUS
n e t w o r k s



STRUCTURED
CABLING PARTNER

Category 6 F/FTP 4 Pair Cable

OPTIPLUS Category 6 F/FTP (Foil Twisted Pair-Overall Foil Shield) 4 Pair 23AWG cables are suitable solution for risky environment where cabling systems installed in a critical manner such as medium or large scale manufacturing plants, hospitals, laboratories etc. Optiplus F/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.



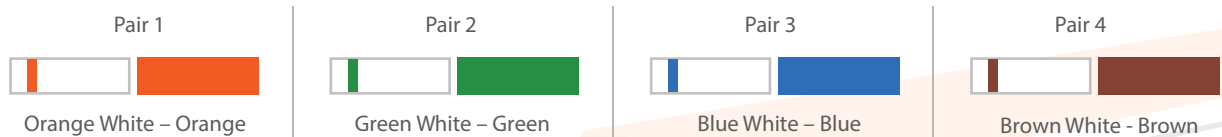
Standards

- ANSI/TIA-568-C.2
- EN 50288-1
- ISO/IEC 11801
- TIA/EIA 568-B.2-1
- ISO/IEC 611156-5
- 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) | 1.35± 0.05mm |
| Foil | Individual pair 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 – $100 \Omega \pm 15\%$
- Frequency - 1 MHz to 250 MHz
- DC Resistance - $73 \Omega/100m$
- Capacitance - $5.6nF/100m$
- Propagation Delay Skew - $25nsec/100m$
- Bend Radius - 58.3mm (min)
- Insulation Resistance - $500 M\Omega.km$ (min)
- Dielectric Strength - 1.0kV dc or 0.7kV ac for 1 min
- Operating Temperature – $-20^{\circ}C$ to $75^{\circ}C$
- Storage Temperature – $0^{\circ}C$ to $80^{\circ}C$

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 | 37.8 | 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-C6110323/PVC | Category 6 F/FTP 4 Pair Cable PVC | 305 mtr |
| OP-C6110323/LSZH | Category 6 F/FTP 4 Pair Cable LSZH | 305 mtr |



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