

# Category 6A F/UTP Outdoor Cable

Category 6A Foiled Twisted Pair OSP Cable, ETL Verified, UL Listed RoHS Compliant

Infinique’s Category 6A Augmented Screened F/UTP Cable, is designed for high network performance of up to 550 MHz. It can be used to design 100 meter channel links as well as shorter channel links with cables and patch cord lengths as short as required, offering maximum flexibility and minimizing excess cable and patch cord lengths which offer overall cost savings.

The Category 6A F/UTP cabling solution provides considerable margin above all electrical transmission performance requirements specified in ANSI/TIA-568-C.2, ISO/IEC 11801 and IEC-61156-5 and supports full duplex protocols delivering up to 10Gbps performance at frequency levels up to 550 Mhz. It provides improved bandwidth, data throughput and network efficiency and supports PoE Power of Ethernet standard (POE 802.3af) allowing data and power connection for POE equipments.

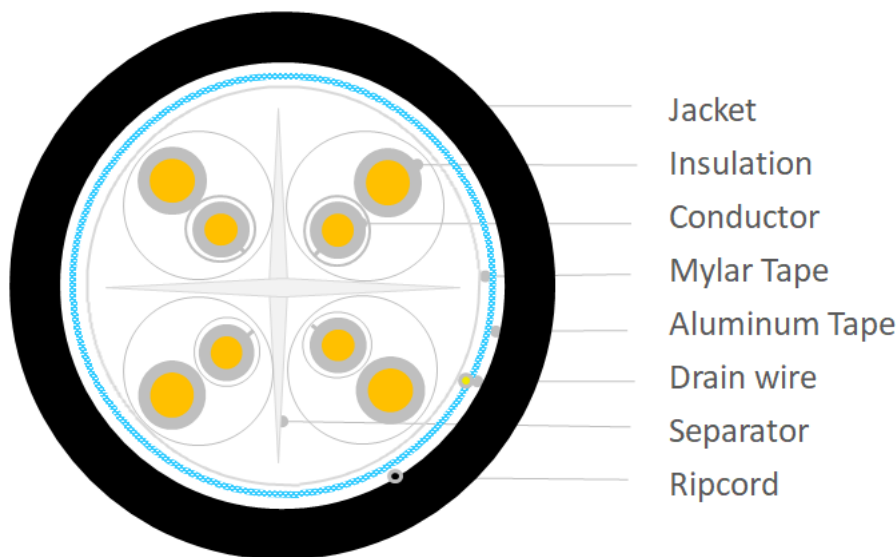
The cable jacket construction has tighter twists and its 4-pair construction with all four pair surrounded with mylar tape and aluminum foil screen reduces alien crosstalk (AXT) coupling between adjacent cables and provides extra margin of performance required for high bandwidth applications.

The Category 6A F/UTP Cable collectively with other Infinique’s Category 6A solution is an excellent solution for voice, data and video transmission needs. The Category 6A F/UTP Cable is offered in LSOH jackets in 1640 ft (500 m) and 1000 ft (305 m) to accommodate various installation requirements.

## Features and Benefits

- Certification**  
 ETL Verified for performance as per ANSI/TIA-568.2-D, EN 50173-1, ISO/IEC 11801-1 Category 6A standards
- Reliable Performance**  
 Designed for high network performance of 500 MHz of up to 100 meter channel links and support network links of 10 Gbps
- Higher Bandwidth**  
 4-pair overall Mylar Tape and Aluminum Foil construction provides the extra margin of performance required for high-bandwidth applications
- Performance Warranty**  
 Qualifies for the Infinique’s 25 Years System Performance Link Warranty

## CABLE CONSTRUCTION



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## ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38Ω /100m
DC Resistance Unbalance	3%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance	1 – 100MHz: 100 Ω ± 15%; 1 – 350MHz: 100 Ω ± 18%; 1 – 500MHz: 100 Ω ± 25%,
Insulation Resistance	> 5000 MΩ x km
Propagation Speed	10MHz (NVP*c): 0.79c
Signal propagation Delay	>10MHz: 4,2ns/m
Delay Skew	<25ns/100m

## MATERIAL SPECIFICATIONS

Conductor	Solid Bare Copper 23 AWG, Ø 0.565mm ±0.005mm
Insulation	Material: Halogen Free Foam/Skin F-PE   Ø (mm): 1.120±0.005mm; Thickness: Avg: 0.3875mm   Min: 0.385mm
Screen	Overall Aluminum Foil Screen, Overall Mylar Tape
Pairing	1 - Blue/White-Blue; 2 - Orange/White-Orange; 3 - Green/White-Green; 4 - Brown/White-Brown
Drain Wire	TC 0.45mm
Rip Cord	Nylon Thread
Cable Jacket	LDPE Cable Jacket (Complies RoHS), Diameter: 7.4 ±0.5mm   Thickness: Avg-0.60 ±0.5mm, Min- 0.55mm, RoHS
Fire Protection	CMX, Safety Standard: UL 1581 VW-1
Cable Color	Black
Cable Print	White Color Ink, Letter Height 3.0 ±0.3mm
Pulling Tension Max	110N (25lbf)
Bend Radius	One Time: 4 x O.D. Installation: 8 x O.D.
Operating Temperature	-20°C to 60°C
Storage Temperature	-20°C to 75°C
Installation Temperature	0°C to 60°C

## TRANSMISSION PERFORMANCE

Frequency (MHz)	Attenuation (≤dB/100m)	NEXT (≥ dB)	PS NEXT (≥ dB)	ELFEXT (≥ dB)	PS ELFEXT (≥ dB)	RL (≥ dB)
1	-	74.3	72.3	68.0	65.0	20.0
4.0	3.8	65.3	63.3	56.0	53.0	23.0
8.0	5.3	60.8	58.8	49.9	46.9	24.5
10.0	5.9	59.3	57.3	48.0	45.0	25.0
16.0	7.5	56.2	54.2	43.9	40.9	25.0
20.0	8.4	54.8	52.8	42.0	39.0	25.0
25.0	9.4	53.3	51.3	40.0	37.0	24.3
31.25	10.5	51.9	49.9	38.1	35.1	23.6
62.5	15.0	47.4	45.4	32.1	29.1	21.5
100	19.1	44.3	42.3	28.0	25.0	20.1
200	27.6	39.8	37.8	22.0	19.0	18.0
250	31.1	38.3	36.3	20.0	17.0	17.3
300	34.3	37.1	35.1	18.5	15.5	16.8
500	45.3	33.8	31.8	14.0	11.0	15.2

## STANDARDS

ETL Verified for performance as per ANSI/TIA-568.2-D, EN 50173-1

ISO/IEC 11801 and IEC-61156-5 Category 6A

Flame Retardant IEC 60332-1-1 IEC 60332-1-2

Low Smoke Emission as per IEC 61034 and EN 50268

Non Corrosive as per IEC 60754-2 and EN 50267

## PACKING

Meter Marking: INFINIQUE CANADA CAT.6A F/UTP OUTDOOR 23AWG ETL VERIFIED TO ANSI/TIA-568.2-D, EN 50173-1, ISO/IEC 11801-1 SN: [Batch Number]+ \*\*\*\*m

Packing: 500m (1640ft) / 305m (1000ft) packed No-Snag Cable Reel

## ORDERING INFORMATION

INC6AFU4BKO-500	Infonique Category 6A F/UTP Outdoor Cable, 23 AWG Cable, LSOH Jacket, ETL Verified, Color Gray, 500m
INC6AFU4BKO-305	Infonique Category 6A F/UTP Outdoor Cable, 23 AWG Cable, LSOH Jacket, ETL Verified, Color Gray, 305m



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