

Category 6A F/UTP Cable

Category 6A Foiled Twisted Pair Cable, ETL Verified, 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.

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

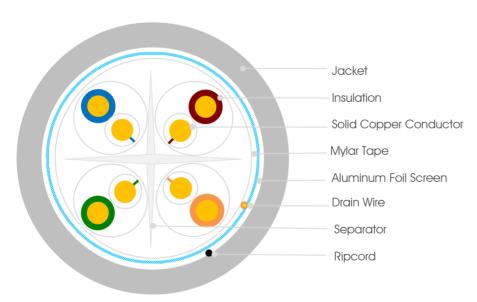
Performance Warranty

Qualifies for the Infinique's 25 Years System Performance Link Warranty

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.

CABLE CONSTRUCTION













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ELECTRICAL SPECIFICATIONS

DC Resistance $<9.38\Omega/100$ m

DC Resistance Unbalance 3%

Mutual Capacitance 5.6 nF/100m capacitance Unbalance <330 pF/100m

Characteristic Impendence 1 - 100 MHz: $100 \Omega \pm 15\%$; 1 - 350 MHz: $100 \Omega \pm 18\%$; 1 - 500 MHz: $100 \Omega \pm 25\%$,

 $\begin{array}{ll} \text{Insulation Resistance} & > 5000 \text{ M}\Omega \text{ x km} \\ \text{Propagation Speed} & 10\text{MHz (NVP*c): 0,79c} \\ \text{Signal propagation Delay} & > 10\text{MHz: 4,2ns/m} \\ \text{Delay Skew} & < 25\text{ns/100m} \end{array}$

MATERIAL SPECIFICATIONS

Screen

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

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 LSOH Halogen Free Flame Retardant Cable Jacket; Diameter: 7.4 ±0.5mm | Thickness: Avg-0.60 ±0.5mm, Min-0.55mm, RoHS

Cable Color Gray

Cable Print Black 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.

 $\begin{array}{lll} \mbox{Operating Temperature} & -20 \mbox{°C to } 60 \mbox{°C} \\ \mbox{Storage Temperature} & -20 \mbox{°C to } 75 \mbox{°C} \\ \mbox{Installation Temperature} & 0 \mbox{°C to } 60 \mbox{°C} \\ \end{array}$

TRANSMISSION PERFORMANCE

Frequency	Attenuation	NEXT	PS NEXT	ELFEXT	PS ELFEXT	RL
(MHz)	(≤dB/100m)	(≥ dB)	(≥ dB)	(≥ dB)	(≥ dB)	(≥ 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

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

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

ORDERING INFORMATION

	INC6AFU4GYL-500	Infinique Category 6A F/UTP Cable, 23 AWG Cable, LSOH Jacket, ETL Verified, Color Gray, 500m
	INC6AFU4GYL-305	Infinique Category 6A F/UTP Cable, 23 AWG Cable, LSOH Jacket, ETL Verified, Color Gray, 305m



Infinique, a Canadian company is a manufacturer of high performing end-to-end solutions in copper, fiber and video surveillance systems. For more information visit our website at www.infinique.com or email us at sales@infinique.com.