

Category 6 UTP Outdoor Cable 23 AWG

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

Infinique's Category 6 UTP cable 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 cost savings for all applications.

It provides considerable margin above all electrical transmission performance requirements specified in ANSI/TIA-568-C.2 and ISO/IEC 11801 and is ETL verified. Infinique's Category 6 UTP cable provides optimum electrical performance capable of handling critical, high-bandwidth applications. The Category 6 UTP Cable is UL listed and has passed UL 1581 vertical tray flame test.

With guaranteed significant channel margin over the entire frequency range, from 1 to 250 MHz for the entire channel link, Infinique Cat.6 UTP cable can transmit data, voice, video and PoE Power over Ethernet standard (POE 802.3af) allowing data and power connection for POE equipments.

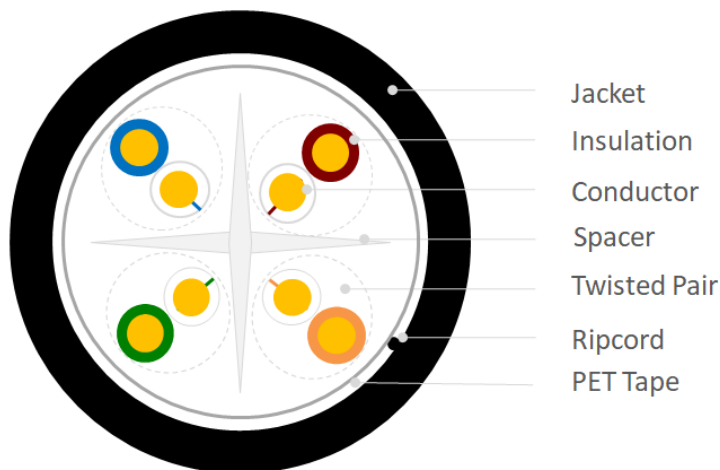
Infinique Category 6 cable is backwards compatible and provides flexibility to protect network investments well into the future. It is certified to the ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards and supports applications such as, Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet as specified in 10GBASE-T standards), 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM and Token Ring 4/16.

Collectively with other Infinique's Category 6 products, Cat.6 UTP Cable is the right solution for voice, data and video transmission needs. The Category 6 UTP OSP Cable comes in PE jackets in 1640ft (500m) and 1000ft (305m) drums to accommodate various installation requirements.

Features and Benefits

- **Certification**
ETL Verified for performance as per ANSI/TIA-568-C.2 and ISO/IEC 11801 standards
- **Reliable Performance**
Channel performance in a 4-conductor configuration up to 100 meters and meets ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards at swept frequencies up to 250MHz
- **Higher Bandwidth**
100 Ohm 4-pair construction with center spacer 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 Impedence	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
NVP Value	70%
Signal propagation Delay	>10MHz: 4,2ns/m
Delay Skew	<25ns/100m

MATERIAL SPECIFICATIONS

Conductor	Solid Bare Copper 23 AWG, Ø 0.57mm
Insulation	Material: Halogen Free Foam/Skin F-PE Ø (mm): 1.35±0.005mm; Thickness: Avg: 0.3875mm Min: 0.385mm
Cabling	Four Unshielded Twisted Pairs
Pairing	1 - Blue/White-Blue; 2 – Orange/White-Orange; 3 – Green/White-Green; 4 – Brown/White-Brown
Spacer	PE (Polyethylene)
Shield	PET Tape
Rip Cord	Nylon Thread
Outer Jacket	LDPE Cable Jacket (Complies RoHS) Diameter: 7.1 ± 0.2mm Thickness: Avg-0.65mm, Min- 0.55mm
Fire Protection	CMX, Safety Standard: UL 1581 VW-1
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/100m)	PS ELFEXT (dB/100m)	RL (dB)
1	1.9	74.3	72.3	67.8	64.8	20.0
4	3.7	65.3	63.3	55.8	57.7	23.0
10	5.9	59.3	57.3	47.8	44.8	25.0
16	7.5	56.3	54.3	43.7	40.7	25.0
20	8.4	54.8	52.8	41.8	38.7	25.0
31.25	10.6	51.9	49.9	37.9	34.9	23.6
62.5	15.4	47.4	45.4	31.9	28.8	21.5
100	19.8	44.3	42.3	27.8	24.8	20.1
150	25.1	41.4	39.4	23.9	20.9	18.8
200	29.0	39.8	37.8	21.8	18.7	18.0
250	32.8	38.3	36.3	19.8	16.8	17.3
350*	39.8	36.1	34.1	16.9	13.9	16.3
400*	43.0	35.3	33.7	15.7	12.7	15.9
450*	46.3	34.5	32.6	14.7	11.7	15.5
500*	48.9	33.8	31.8	13.8	10.8	15.2
550*	51.8	33.2	31.2	12.9	9.9	14.9

*Frequency values above industry standards are for information only.

STANDARDS

ETL Verified for performance as per ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E Channel standards.
 EN 50173 MICE Environmental Requirements.
 Flame Retardant as per IEC 60332-1 and EN 50266-2-1
 Non Corrosive as per IEC 60754-2 and EN 50267
 Low Smoke Emission as per IEC 61034 and EN 50268

PACKING

Meter Marking: INFINIQUE CANADA CAT.6 UTP 4PR 23 AWG ETL VERIFIED TO ANSI/TIA-568-C.2, ISO/IEC 11801, UL LISTED + ****m +PRODUCTION DATE SN
 500m (1 640ft) packed in No-Snag Cable Drum

ORDERING INFORMATION

Part Number	Description
INC6U4BKO-500	Category 6 UTP Cable, 23 AWG Cable, Outdoor, PE Jacket, ETL Verified, UL Listed, Black, 500m
INC6U4BKO-305	Category 6 UTP Cable, 23 AWG Cable, Outdoor, PE Jacket, ETL Verified, UL Listed, Black, 305m

Available in 305 and 500 meter Drum.



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.