

Category 6 U/FTP Cable

Category 6 Foiled Twisted Pair Cable, ETL Verified, RoHS Compliant

Infinique's Category 6 U/FTP, ETL verified and has been designed for network performance of up to 250 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.

Infinique Category 6 U/FTP cabling solution provides considerable margin above all electrical transmission performance requirements specified in ANSI/TIA-568-C.2 and ISO/IEC 11801 and is ETL verified. 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 each individual pair surrounded with

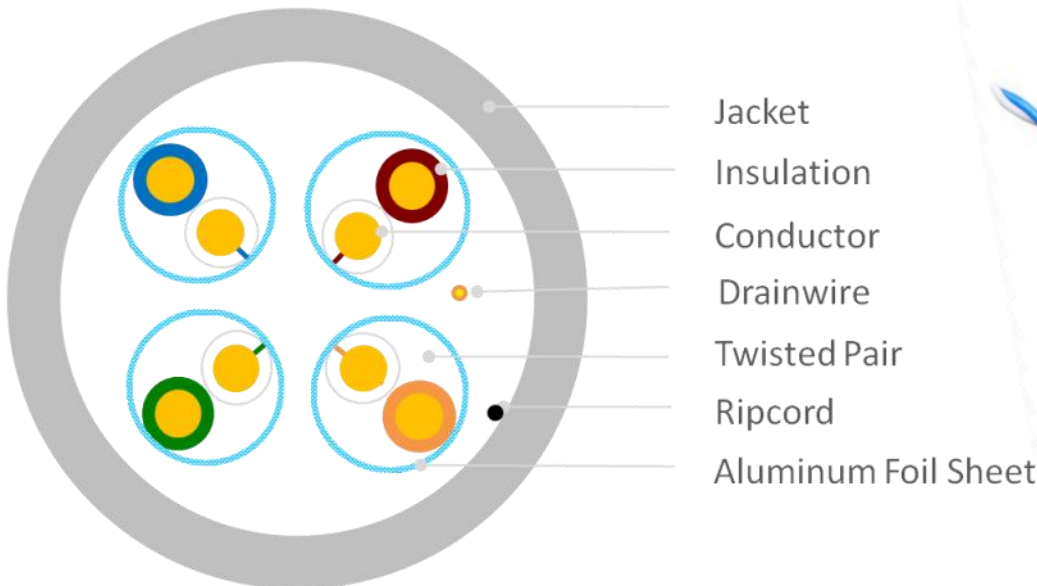
aluminum foil tape reduces alien crosstalk (AXT) coupling between adjacent cables and provides extra margin of performance required for high bandwidth applications.

The Category 6 U/FTP Cable collectively with other Infinique's Category 6 U/FTP solution is the right solution for voice, data and video transmission needs. The Category 6 U/FTP Cable is offered in LSOH jackets in 1640 ft (500 m) reels 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-connector 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**
 4-pair foiled 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 0.56mm±0.005mm
Insulation	Material: Halogen Free Foam/Skin F-PE Ø (mm): 1.330±0.005mm; Thickness: Avg: 0.3875mm Min: 0.385mm
Cabling	Four Aluminum Foil Tape Shielded Twisted Pairs
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: 7.3 ±0.5mm Thickness: Avg-0.55 ±0.5mm, Min- 0.55mm, RoHS
Cable Color	Gray / Ice Blue (Custom color available MOQ required)
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.
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.

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 U/FTP 23AWG ETL VERIFIED ANSI/TIA-568-C.2, ISO/IEC 11801, IEC 61156-5 SN + *****

500m (1640ft) packed in No-Snag Cable Reel

ORDERING INFORMATION

INC6F4GYL	Infinique Cable Cat.6 U/FTP Shielded 23AWG Solid Copper, ETL Verified, LSOH, 500m, Color Gray
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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.