

Category 6A S/FTP Outdoor Cable

Category 6A Shielded Foiled Twisted Pair Cable, RoHS Compliant

Infinique's Category 6A (Augmented Category 6) S/FTP cable, ETL verified, has been 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 cable and patch cord lengths as short as required, offering maximum flexibility and minimizing excess cable and patch cord lengths, which results in overall cost savings.

The Infinique Category 6A S/FTP cabling solution provides a significant margin above all electrical transmission performance requirements specified in ANSI/TIA-568-C.2, ISO/IEC 11801, and IEC-61156-5. It supports full-duplex protocols, delivering up to 10 Gbps performance at frequencies up to 550 MHz. This solution improves bandwidth, data throughput, and network efficiency, while also supporting the PoE (Power over Ethernet) standard (IEEE 802.3af), enabling both data and power connections for PoE devices.

Features and Benefits

Certification

ETL Verified for performance as per ANSI/TIA-568-C.2, ISO/ IEC 11801 and IEC-61156-5 Category 6A standards

Reliable Performance

Designed for high network performance of 550 MHz of upto 100 meter channel links and support network links of 10 Gbps

Higher Bandwidth

4-pair foiled construction with braid screen provides the extra margin of performance required for high-bandwidth applications

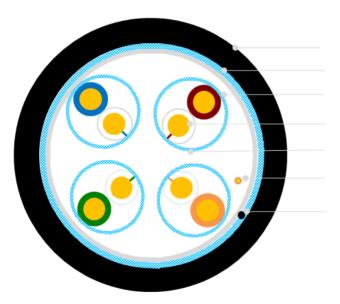
Performance Warranty

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

The cable jacket features tighter twists, and its 4-pair construction—where each individual pair is surrounded by aluminum foil tape and a braided screen—reduces alien crosstalk (AXT) between adjacent cables. This provides the extra performance margin required for high-bandwidth applications.

The Category 6A S/FTP cable, along with other Infinique Category 6A U/FTP solutions, is ideal for voice, data, and video transmission needs. The cable is available in 1640 ft (500 m) reels to accommodate various installation requirements.

CABLE CONSTRUCTION



Jacket
TC Braid Screen
Aluminum Foil Sheet
Solid Copper Conductor
Twisted Pair
Drain Wire
Ripcord









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ELECTRICAL SPECIFICATIONS

DC Resistance DC Resistance Unbalance

Mutual Capacitance 5.6 nF/100m

Capacitance Unbalance <330 pF/100m

Characteristic Impendence 1 – 100MHz: 100 Ω \pm 15%; 1 – 350MHz: 100 Ω \pm 18%; 1 – 500MHz: 100 Ω \pm 25%,

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

MATERIAL SPECIFICATIONS

Screens

Conductor Solid Bare Copper 23 AWG, Ø 0.56mm±0.005mm

Material: Halogen Free Foam/Skin F-PE | Ø (mm): 1.330±0.005mm; Thickness: Avg: 0.3875mm | Min: 0.385mm Insulation

> Twisted Pairs: Aluminum Foil First Overall Screen: Aluminum Foil

Overall Screen: 96/0.10mm TC Wire Braiding | Coverage Rate: ≥40%

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

Cable 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

Cable Color Black Color

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

^{*}Frequency values above industry standards are for information only.

STANDARDS

ETL Verified for performance as per ANSI/TIA-568-C.2, ISO/IEC 11801 and IEC-61156-5 Category 6A Standards

EN 50173 MICE Environmental Requirements.

CMX, Safety Standard: UL 1581 VW-1

Flame Retardant as per IEC 60332-1 and EN 50266-2-1

Non Corrosive as per IEC 60754-2 and EN 50267

PACKING

Meter Marking: INFINIQUE CANADA CAT.6A S/FTP OUTDOOR 23AWG ETL VERIFIED ANSI/TIA-568-C.2, ISO/IEC 11801, IEC 61156-5 SN + ****m

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

ORDERING INFORMATION

INC.6AS4RKO Infinique Category 6A S/FTP Cable, 23 AWG Outdoor Cable, CMX Jacket, ETL Verified



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.

TEC-CS-212-1601-V02