I infinique™

Category 7 S/FTP Cable

Category 7 Shielded Foiled Twisted Pair Cable, RoHS Compliant

Infinique's Category 7 cable confirms to performance requirements of IEC 61156-5, TIA-568.2-D up to 1000 MHz to support 100 meter Channels in 10GBase-T (10 Gigabit Ethernet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM, PoE, PoE+ applications. Combined with Infinique's Category 6A Keystone Jacks and Patch Cords, we deliver a complete end-to-end solution that confirms to the ISO/IEC and TIA Category 7 specifications for 100-meter channels for 10 Gbps applications.

Category 7 is a fully shielded cable with construction that has tighter twists, its 4-pair construction with each individual pair surrounded with aluminum foil screen and outer braid screen provides superior noise immunity and coupling attenuation between adjacent cables and provides extra margin of performance required for high bandwidth applications.

Features and Benefits

- **Certification**
  ETL Verified for performance as per IEC 61156-5, ISO/IEC 11801-1 Category 7 Standards
- **Reliable Performance**
  Designed for high network performance of 1000 MHz of Up to 100 meter channel links and support network links of 10 Gbps
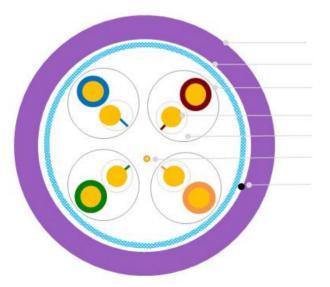- **Higher Bandwidth**
  4-pair foiled construction with braid screen provides the extra margin of performance required for high-bandwidth applications
- **Performance Warranty**
  Qualifies for the Infinique's 25 Years System Performance Link Warranty

The Category 7 S/FTP Cable collectively with other Infinique's Category 7 S/FTP solution is the right solution for applications where data transmissions at very high speeds of 1000 Mhz is required. The Category 7 S/FTP Cable is offered in reels to accommodate easy deployment.

CABLE CONSTRUCTION

Jacket

Braid Screen

AL/Mylar Screen

Solid Copper Conductor

Twisted Pair

Drain Wire

Ripcord

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ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38Ω
DC Resistance Unbalance	2.0
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<160 pF/100m
Characteristic Impendence	100 Ω ±15 @ 100MHz | 100 Ω ±18 @ 250MHz | 100 Ω ±25 @ 600MHz
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, Ø 0.560mm±0.005mm
Insulation	Material: Halogen Free Foam/Skin F-PE | Ø (mm): 1.30±0.05mm; Thickness: Avg: 0.3875mm | Min: 0.385mm
Twisted Pairs Screen	Aluminum Foil / Mylar
Outer Screen	Aluminum Magnesium Alloy | Coverage Rate: ≥30%
Pairing	1 - Blue/White-Blue; 2 – Orange/White-Orange; 3 – Green/White-Green; 4 – Brown/White-Brown
Drain Wire	TC 0.40mm
Rip Cord	Nylon Thread
Cable Jacket	LSOH Halogen Free Flame Retardant (IEC 60332-1); Diameter: 7.2 ±0.5mm | Thickness: 0.50 ±0.05mm, RoHS
Cable Color	Purple (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/30m)	NEXT (≥ dB)	PS NEXT (≥ dB)	RL (≥ dB)	ELFEXT (≥ dB)	PSELFEXT (≥ dB)	PHASE DELAY (≥ dB)	PS ACR-N (≥ dB)
1		78.0	75.0	20.0	78.0	75.0	570.0	59.0
4.0	3.74	78.0	75.0	23.0	78.0	75.0	552.0	57.5
8.0	5.24	78.0	75.0	24.5	75.9	72.9	546.7	52.6
10.0	5.86	78.0	75.0	25.0	74.0	71.0	545.4	51.0
16.0	7.41	78.0	75.0	25.0	69.9	66.9	543.0	47.6
20.0	8.29	78.0	75.0	25.0	68.0	65.0	542.0	46.0
25.0	9.29	78.0	75.0	24.3	66.0	63.0	541.2	44.1
31.25	10.41	78.0	75.0	23.6	64.1	61.1	540.4	42.1
62.5	14.88	75.5	72.5	21.5	58.1	55.1	538.6	35.5
100	19.02	72.4	69.4	20.1	54.0	51.0	537.6	30.6
150	23.56	69.8	66.8	18.9	50.2	47.2	536.9	22.6
200	27.47	67.9	64.9	18.0	48.0	45.0	536.5	19.7
250	30.97	66.4	63.4	17.3	46.0	43.0	536.3	17.3
300	34.19	65.2	62.2	17.3	44.5	41.5	536.1	13.2
600	50.10	60.7	57.7	17.3	38.4	35.4	535.5	9.9
700	54.63	59.7	56.7	14.2	37.1	34.1	535.4	6.2
1000	66.93	57.3	54.4	13.1	34.0	31.0	535.1	-5.5

STANDARDS

ETL Verified to IEC 61156-5 and ISO/IEC 11801-1 for performance as Generic Cabling Components Standards Category 7 Cable Requirements:

ANSI/TIA-568.2-D

CENELEC EN 50288-4-1

IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications

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

ROHS Compliant

PACKING

Meter Marking: INFINIQUE CANADA CAT.7 S/FTP ANSI/TIA-568.2-D, ISO/IEC 11801-1, IEC 61156-5 SN + ****m

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

ORDERING INFORMATION

INC7S4PRL-500	Infinique Category 7 S/FTP Cable, ETL Verified ANSI/TIA-568.2-D, ISO/IEC 11801-1, IEC 61156-5, LSOH Jacket, Purple, 500m
INC7S4PRL-305	Infinique Category 7 S/FTP Cable, ETL Verified ANSI/TIA-568.2-D, ISO/IEC 11801-1, IEC 61156-5, LSOH Jacket, Purple, 305m
INC7S4PRL-153	Infinique Category 7 S/FTP Cable, ETL Verified ANSI/TIA-568.2-D, ISO/IEC 11801-1, IEC 61156-5, LSOH Jacket, Purple, 153m
INC7S4PRR-500	Infinique Category 7 S/FTP Cable, ETL Verified ANSI/TIA-568.2-D, ISO/IEC 11801-1, IEC 61156-5, CMX Jacket, Purple, 500m
INC7S4PRR-305	Infinique Category 7 S/FTP Cable, ETL Verified ANSI/TIA-568.2-D, ISO/IEC 11801-1, IEC 61156-5, CMX Jacket, Purple, 305m
INC7S4PRR-153	Infinique Category 7 S/FTP Cable, ETL Verified ANSI/TIA-568.2-D, ISO/IEC 11801-1, IEC 61156-5, CMX Jacket, Purple, 153m

Infinique™ 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.