WIRE & CABLE

UL 444 · FT6/CMP

INW-CAT6FT6-CMP

CAT6 UTP FT6/CMP UL 444 Cable



23 AWG
Solid bare copper

4 PAIRS
Unshielded twisted pair

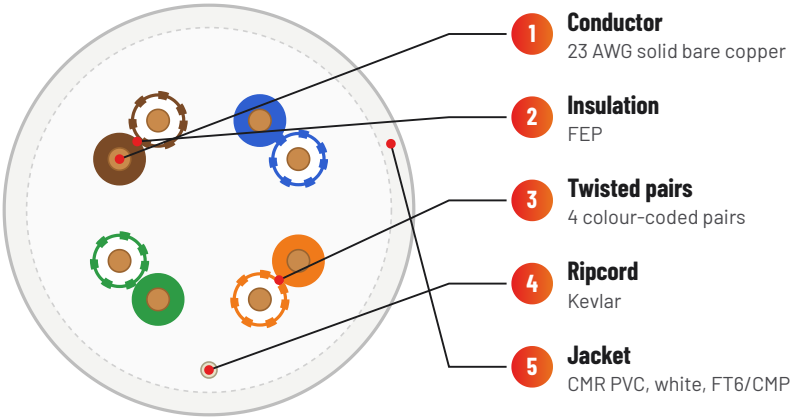
550 MHz
Tested frequency

1000' 305 m
Pull box

IN SHORT

Inaxsys CAT6 UTP FT6/CMP cable is built for high-performance Ethernet, IP video and PoE installations. Four unshielded twisted pairs of 23 AWG solid bare copper with FEP insulation deliver 100 Ω characteristic impedance and are tested up to 550 MHz, supporting Gigabit Ethernet and Power over Ethernet for IP cameras, access control and network devices. Its FT6/CMP rated, UL 444 listed jacket is approved for installation in plenum spaces and air-handling ceilings, and the cable comes in a convenient 1000 ft (305 m) pull box with a ripcord for fast, clean terminations.

CABLE CONSTRUCTION



*Design and specifications are subject to change without notice

TECHNICAL SPECIFICATIONS

Ordering Information	
Part Number	INW-CAT6FT6-CMP
Description	CAT6 UTP FT6/CMP UL444 Cable; 1000' Box; White
Conductor	
Material	Solid bare copper
Size	23 AWG, 0.0220" (0.56 ± 0.006 mm)
Insulation	
Material	FEP
Outside Diameter	0.0433" (0.98 ± 0.05 mm)
Pair Colour Code	Pair 1: Brown / White-Brown
	Pair 2: Blue / White-Blue
	Pair 3: Orange / White-Orange
	Pair 4: Green / White-Green
Ripcord	
Material	Kevlar
Jacket	
Material	CMR PVC
Colour	White
Wall Thickness	0.0157" nom. (0.4 mm)
Outside Diameter	0.2086" ± 0.008" (5.3 ± 0.3 mm)
Electrical Properties	
Temperature Rating	75°C (167°F)
Voltage Rating	300 V
Capacitance	5.6 nF / 100 m nom.
Characteristic Impedance	1-100 MHz: 100 Ω ± 15% | 101-250 MHz: 100 Ω ± 22%
Velocity of Propagation	≥ 65%
DC Resistance (Conductor)	9.38 Ω / 100 m nom.
DC Resistance Unbalance	≤ 5%
Delay Skew	≤ 45 ns / 100 m
Regulatory	
Communications Cable Standard	UL 444
Fire and Smoke Rating	FT6/CMP
Packaging	1000 ft (305 m) pull box

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TRANSMISSION PERFORMANCE

Frequency (MHz)	Attenuation (dB/100 m)	NEXT (dB)	ACRF (dB)	PS NEXT (dB)	PS ACRF (dB)	RL (dB)	Delay (ns/100 m)
1	2.0	74.3	67.8	72.3	64.8	20.0	570
4	3.8	65.3	55.8	63.3	52.8	23.0	552
8	5.3	60.8	49.7	58.8	46.7	24.5	547
10	6.0	59.3	47.8	57.3	44.8	25.0	545
16	7.6	56.2	43.7	54.2	40.7	25.0	543
20	8.5	54.8	41.8	52.8	38.8	25.0	542
25	9.5	53.3	39.8	51.3	36.8	24.3	541
31.25	10.7	51.9	37.9	49.9	34.9	23.6	540
62.5	15.4	47.4	31.9	45.4	28.9	21.5	539
100	19.8	44.3	27.8	42.3	24.8	20.01	538
200	29.0	39.8	21.8	37.8	18.8	18.0	537
250	32.8	38.3	19.8	36.3	16.8	17.3	536
300	36.4	37.1	18.3	35.1	15.3	16.8	536
350	39.8	36.1	16.9	34.1	13.9	16.3	536
400	43.0	35.3	15.8	33.3	12.8	15.9	536
500	48.9	33.8	13.8	31.8	10.8	15.2	536
550	50.1	31.9	13.1	30.7	9.9	14.7	535

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