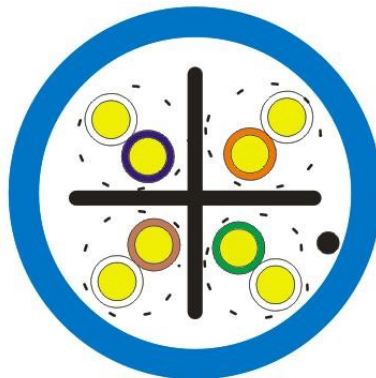


24AWG Category 6+ Ultra UTP Cable UL Verified

Part Number:PROCAT6LITEV2



Application

Voice, Data, Security and Video Applications.
IP Megapixel CCTV/Analog Installations
Wire Access Points
Gigabit Video/data installations
Long distance PoE feeding
550MHz Broadband Video Voice, T1, ISDN

Standards

ANSI EIA/TIA 568 C.2; ; IEC 61156-5
ISO/IEC 11801 2nd Edition
EN 50173; EN 50288-3-1
IEEE 802.3at
UL - E472815

Construction

Conductor	Bare copper wire (Ultra AWG24)
Insulation	Polyethylene, $\varnothing 0.52 \pm 0.005$ mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Insulation Color	Blue/White-Blue, Orange/white-Orange, Green/white-Green, Brown/white-Brown
Sheath	PVC Blue RAL 5015
Diameter	5.7 ± 0.2 mm

Mechanical properties

Minimum bending radius	Installation	8 x D
	Installed	4 x D
Temperature range	during operation	-20°C ~ + 60°C
	during installation	0°C ~ + 50°C
Fluke Permanent Link	Up To 90 Meters	

Electrical properties @20°C

Dielectric strength	2.5 KV dc-2 seconds
Conductor resistance	Max 8.50 ohm/100M at 20°C
Max. Ring resistance	16.8 Ohm/100M at 20°C
Max. Mutual capacitance	56 pF/M
Max. Capacity unbalance	330 pF/100M
Mean characteristic impedance	100 ± 15 Ω between 1Mhz to 100Mhz
Nominal velocity of propagation	approx. 67 %
Propagation delay	Nominal 535 ns/100m
Delay skew	Nominal 20 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core Coupling attenuation	≥ 40 dB

Nominal transmission characteristics @20°C

Freq. (Mhz)		ATT (dB/100m)		RL (dB)		PS.NEXT (dB/100m)		PS.NEXT (dB/100m)		ELFEXT (dB/100m)		PS-ELFEXT (dB/100m)	
		TIA(1)		TIA(1)		TIA(1)		TIA(1)		TIA(1)		TIA(1)	
1		2.03		20.00		74.30		72.30		67.80		64.8	
4		3.78		23.01		65.27		63.27		55.76		52.76	
10		5.95		25.00		59.30		57.30		47.80		44.80	
16		7.55		25.00		56.24		54.24		43.72		40.72	
20		8.47		25.00		54.78		52.78		41.78		38.78	
25		9.51		24.32		53.33		51.33		39.84		36.84	
31.25	10.67	23.64	51.88	49.88	37.90	34.90	62.5	15.38	21.54	47.36	45.36	31.88	28.88
100		19.80		20.11		44.30		42.30		27.80		24.80	
125		22.36		19.43		42.85		40.85		25.86		22.86	
200		28.98		18.00		39.78		37.78		21.78		18.78	
250		32.85		17.32		38.33		36.33		19.84		16.84	
300		-		-		-		-		-		-	
350		-		-		-		-		-		-	

*Frequency above 250Mhz are for information only, values may vary without prior notice.