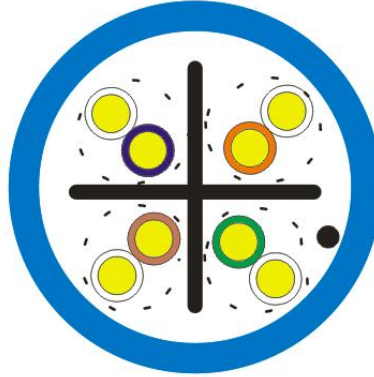


## 24AWG Category 6+ Ultra UTP Cable UL Verified

Part Number: PROCAT6LITE



### 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;  
ISO/IEC 11801 2<sup>nd</sup> Edition; IEC 61156-5  
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	$5.7 \pm 0.2$ mm

### Mechanical properties

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

## 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.