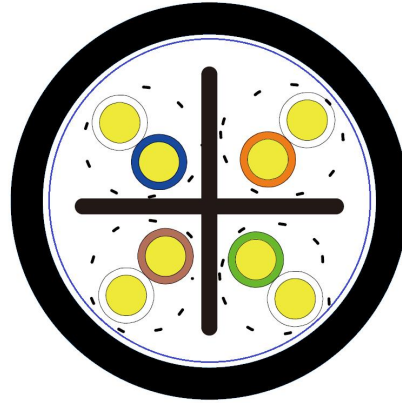


24AWG Category 6 Ultra UTP Cable for Outdoor Use UL Verified

Part Number: PROCAT6EXTLITES



Application

Voice, Data, Security and Video Applications.
IP Megapixel CCTV/Analog Installations
Wire Access Points
Gigabit Outdoor Video/data installations
Long distance PoE feeding
Generic cabling systems. Outdoor installations.

Standards

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

UV Resistance Rating

EN 50289-4-17

Construction

Conductor	Bare copper wire (Ultra AWG24)
Insulation	Polyethylene, $\varnothing 0.52 \pm 0.005$ mm
Insulation Color	Blue/White-Blue, Orange/white-Orange, Green/white-Green, Brown/white-Brown
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core, with cross separator
Filling	PE Tap Compound to prevent moisture migration.
Outer Sheath	Black LDPE UV Resistant
Diameter	5.8 ± 0.2 mm

Mechanical properties

Minimum bending radius	Installation	10 x D
Temperature range	Installed during operation	5 x D
Fluke Permanent Link	during installation	-40 °C ~ + 70 °C
	Up To 90 Meters	-20 °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	560 pf/100M
Max. Capacity unbalance	330 pf/100M
Mean characteristic impedance 100 MHz	100 ± 15 Ω
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	≥ 50 dB

Nominal transmission characteristics @ 20°C

Frequency (Mhz)	Impedance (Ω)	RL (dB)	ATT (dB/100)	NEXT (dB)	PS.NEXT (dB)	ELFEXT (dB)	PS-ELFEXT (dB)
0.772	100±15	19.44	1.84	76	74	70	67
1	100±15	20	2.04	74.3	72.3	67.8	64.8
4	100±15	23.01	3.81	65.3	63.3	55.8	52.8
10	100±15	25	5.99	59.3	57.3	47.8	44.8
16	100±15	25	7.6	56.2	54.2	43.7	40.7
20	100±15	25	8.52	54.8	52.8	41.8	38.8
25	100±15	24.32	9.57	53.3	51.3	39.8	36.8
31.25	100±15	23.64	10.74	51.9	49.9	37.9	34.9
62.3	100±15	21.54	15.48	47.4	45.4	31.9	28.9
100	100±15	20.1	19.92	44.3	42.3	27.8	24.8
125	100±22	19.42	22.49	42.8	40.8	25.9	22.9
200	100±22	18	29.15	39.8	37.8	21.8	18.8
250	100±32	17.32	33.04	38.3	36.3	19.8	16.8
300	-	-	36.10	41.0	38.0	32.0	30.0
400	-	-	41.70	39.0	36.0	30.0	28.0

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

Product Code Table

Product Description	Packing Length	Part Number
24AWG Cat.6 UTP 4P Black LDPE Outdoor	1000ft Easy Pull Box	PROCAT6EXTLITES