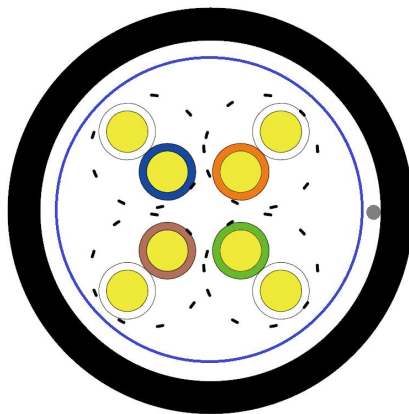


## Category 5e UTP Cable for Outdoor Use UL Verified

Part Number: PROCAT5EXTLITES



### 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 2<sup>nd</sup> 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 (AWG24/0.48mm)
Insulation	Polyethylene, $\varnothing 0.88 \pm 0.02$ 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
Filling	PE Tap Compound to prevent moisture migration.
Outer Sheath	Black LDPE UV Resistant
Diameter	$5.2 \pm 0.2$ mm

### Mechanical properties

Minimum bending radius	Installation	8 x D
Temperature range	Installed during operation	4 x D
	during installation	-40°C ~ + 60°C
Fluke Permanent Link	Up To 90 Meters	-20°C ~ + 50°C



## Electrical properties @ 20°C

Dielectric strength	2.5 KV dc-2 seconds
Conductor resistance	Max 10.00 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	≥ 40 dB

## Nominal transmission characteristics @ 20°C

Fre. (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return loss (dB)
1	1,9	71	68	69,1	66,1	68	65	20
4	3,7	62	59	58,3	55,3	56	53	23
10	6	56	53	50	47,0	48	45	25
16	7,6	53	50	45,4	42,4	44	41	25
20	8,5	51	48	42,5	39,5	42	39	25
31,2	10,7	49	46	38,3	35,3	38	35	24
62,5	15,7	44	41	28,3	25,3	32	29	22
100	19,8	41	38	21,2	18,2	28	25	20
125	22,3	40	37	17,7	14,7	26	23	19
155.5	24,2	38	35	13,8	10,8	24	21	-
175	25,7	37	34	11,3	8,3	23	20	-
200	27,5	36	33	8,5	5,5	22	19	-
250	29,2	35	32	5,8	2,8	20	17	-
300	32.0	34	31	2.0	-1.0	16	13	-

## Product Code Table

Product Description	Packing Length	Part Number
24AWG(0.48mm) Cat.5e UTP 4P LDPE Black for outdoor	1000ft Easy Pull Box	PROCAT5EXTLITES

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