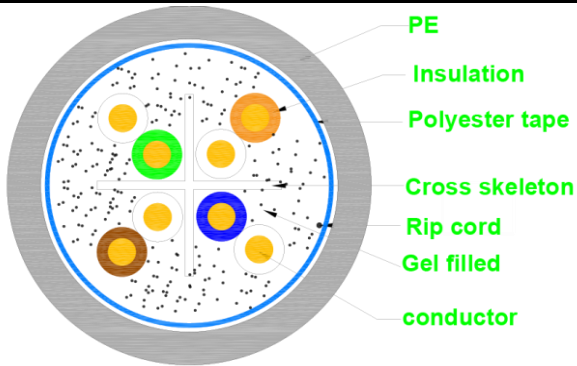


# Category 6 Outdoor Unshielded Cable (Gel filled)



### Description

23 AWG High Performance Cable

### Applicable Standards

- ETL Verified to TIA/EIA 568-B.2, UL 444, and ISO/IEC 11801
- ROHS Compliant
- ATM 155 Mbps
- Ethernet 10BASE-T, 100BASE-TX, 100BASE-VG, 100BASE-T4
- 1000 Mbps 1000BASE-T Gigabit Ethernet™ (IEEE 802.3)

### Physical Characteristics

Number of Conductor Pairs	4
Conductor Diameter	0.570 ± 0.003 mm
Stranding	Solid
Conductor Material	BC Copper
Shield Material	Unshielded
Rip Cord	Yes
Insulation Material	HDPE
Insulation Overall Diameter	1.070/1.090 ± 0.005
Insulation Average Thickness	0.270-0.250mm
Jacket	PE (UV)
Outer Jacket Average Wall Thickness	0.8 ± 0.03 mm
Outer Jacket Nom. O.D.	7.0 ± 0.5 mm
jacket Color	Black

**Sheath color, wall thickness, flame retardant grade according to your needs**

### Mechanical Characteristics

Temperature Rating	Installation	-40~+60°C
	Operating	-40~+60°C
Tensile Strength	Before	> = 19.0 Mpa
Elongation	Aging	> = 300%
Aging Condition	100°C x 96 hours	
	After	> = 80% of unaged
	Aging	> = 50% of unaged
Rated Temperature / Voltage	5000M Ω/KM	
Elongation	≥ 300%	

### Color Code

Pair 1	White / Blue	Blue
Pair 2	White / Orange	Orange
Pair 3	White / Green	Green
Pair 4	White / Brown	Brown

### Cable Marking

According to customer needs

### Electrical Performance

Frequency (MHz)	Attenuation (dB/100m)	Return Loss (dB)	NEXT (dB)	PS-NEXT (dB)
	Max.	Min.	Min.	Min.
1	2.03	20.00	74.30	72.30
4	3.87	23.01	65.27	63.27
10	5.95	25.00	59.30	57.30
16	7.55	25.00	56.24	54.24
20	8.47	25.00	54.78	52.78
25	9.51	24.32	53.33	51.33
31.25	10.67	23.64	51.88	49.88
62.50	15.38	21.54	47.36	45.36
100	19.80	20.11	44.30	41.30
200	28.98	18.00	39.78	37.78
250	32.85	17.32	38.33	36.33

Frequency (MHz)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Delay (ns/100m)	ACR (dB)
	Min.	Min.	Max.	
1	67.80	64.80	570.00	72.70
4	55.76	52.76	552.00	61.40
10	47.80	44.80	545.38	53.35
16	43.72	40.72	543.00	48.69
20	41.78	38.78	542.05	46.31
25	39.84	36.84	541.20	43.82
31.25	37.90	34.90	540.44	41.21
62.50	31.88	28.88	538.55	31.98
100	27.80	24.80	537.60	24.50
200	21.78	18.78	536.55	10.80
250	19.84	16.84	536.28	5.48

### Electrical Characteristics

Maximum Conductor DC Resistance @ 20°C	≤9.5 Ω / 100 Meters
Maximum DC Resistance Unbalanced @ 20	≤2.5%
Maximum Pair-to-Pair Ground Capacitance U	≤330 Pf / 100 Meters
Characteristic Impedance	100 ± 15 Ω
Mutual Capacitance	≤5.6 nF / 100 Meters
Maximum Delay Skew	≤45 nS / 100 Meters