



### Description

23 AWG Direct Burial Outdoor High Performance Cable

### Applicable Standards

- ETL Listed Type CMX
- C(ETL) listed CMX
- ETL Verified to TIA - 568-C.2, and ISO/IEC 11801
- ROHS Compliant
- ATM 155 Mbps
- Ethernet 10BASE-T, 100BASE-TX, 100BASE-VG, 100BASE-T4,
- 1000 Mbps 100BASE-T Gigabit Ethernet™ (IEEE 802.3)
- 16 Mbps Token Ring™ (IEEE 802.5)

### Physical Characteristics

Number of Conductor Pairs	4
Size	23 AWG
Stranding	Solid
Conductor Material	Solid Annealed Bare Copper
Shield Material	Unshielded
Rip Cord	Yes
Insulation Material	HDPE
Insulation Overall Diameter	0.040 in. ± 0.0002 in.
Insulation Average Thickness	0.0088 in.
Jacket	LDPE
Outer Jacket Average Wall Thickness	0.022 in.
Outer Jacket Nom. O.D.	0.244 in. ± 0.008 in.
Nominal Weight	30 lbs.

### Mechanical Characteristics

Temperature Rating	Installation	-40° to + 75°C
	Operating	-40° to + 75°C
Tensile Strength	Before	≥ 19 Mpa
	Aging	≥ 300%
Elongation		100°C x 96 hours
	After	≥ 80% of unaged
Aging Condition		≥ 50% of unaged
	Aging	

### Color Code

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

### Cable Marking

CATEGORY 6E 550MHz 23AWG 4PR UTP  
 UV RATED OUTDOOR DIRECT BURIAL  
 3147705 C(ETL)US \*\*\*\*FT

### 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
62.5	15.38	21.54	47.36	45.36
100	19.80	20.11	44.30	51.30
200	28.98	18.00	39.78	37.78
250	32.85	17.32	38.33	36.33
350	39.79	16.30	36.14	34.14
550	51.76	14.92	33.19	31.19

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
62.5	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
350	16.92	13.92	535.92	-3.65
550	12.99	9.99	535.54	-18.57

\* Values above 250MHz are information only

### Electrical Characteristics

Maximum Conductor DC Resistance @ 20°C	≤ 9.5 Ω/100 Meters
Maximum DC Resistance Unbalanced @ 20°C	≤ 2.5%
Maximum Pair-to-Pair Ground Capacitance Unbalanced	≤ 330 pF/100 Meters
Characteristic Impedance (1 ~ 350 MHz)	100 ± 15 Ω
Mutual Capacitance	≤ 5.6 nF/100 Meters
Maximum Delay Skew	≤ 45 nS/100 Meters

### Part Numbers

Part #	Color	Put-up
	Black	1,000' Reel