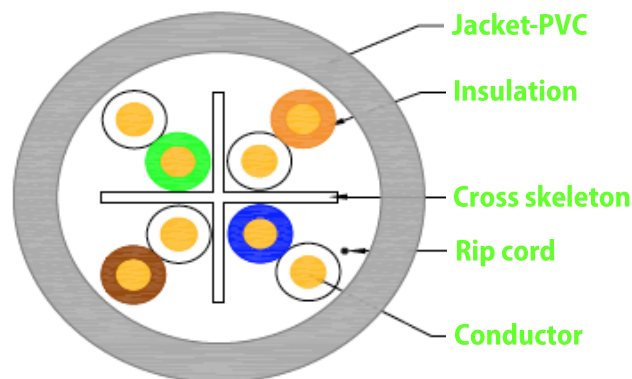


23 AWG High Performance Cable

Features:

- ANSI/TIA 568-C.2
- NEC/CEC Type CMX Outdoor - CMR
- UL 444 Sunlight-Resistant
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-100-685
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)
- Telcordia GR-3164
- Telcordia GR-3164 Severe Cold Impact



Part Number T6aUTP-CMR-WH-CF

Physical Characteristics

Number of Conductor Pairs	4
Conductor Diameter	0.580 ± 0.02mm
Conductor	Solid
Conductor Material	BC Copper
Shield Material	Unshielded
Rip Cord	Yes
Insulation Material	HDPE
Insulation Overall Diameter	1.045 ± 0.005mm
Insulation Average Thickness	0.220 ± 0.005mm
Jacket	PVC & UV resistance
Outer Jacket Average Wall Thickness	0.55 ± 0.05mm
Outer jacket Nom. O.D.	6.5 ± 0.3mm
Jacket Color	Black

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

Mechanical Characteristics

Temperature Rating

Installation	-25°C to + 75°C
Operational	-40°C to + 75°C
Storage Temperature Range	-40°C to + 75°C
Tensile Strength	> = 19.0 Mpa
Elongation	> = 300%
Rated Temperature / Voltage	5000M Ω/KM

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	≤330pF / 100 Meters
Characteristic Impedance: 1-100MHz	100Ω ± 15%
100-250MHz	100Ω ± 22%
250-500MHz	100Ω ± 25%
Mutual Capacitance	≤5.6 nF / 100 Meters
Maximum Delay Skew	≤45 nS / 100 Meters

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	Attenuation	Return loss	NEXT	PS-NEXT
(MHz)	(dB/100m Max.)	(dB Min.)	(dB Min.)	(dB 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
300	36.41	16.80	37.10	35.10
500	45.30	15.20	33.80	31.80

Frequency	ELFEXT	PS-ELFEXT	Delay	ACR
(MHz)	(Db/100m Min.)	(dB/100m Min.)	(ns/100m Max.)	(dB)
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
300	18.45	15.45	536.10	
500	13.80	10.80	535.60	