

Elite Cable

Product Part Number

- TVH2404N70XX

Product Description

- UTP, 23AWG solid bare copper, CAT.6, CMX Outdoor CMP
- With cross filler and noise control barrier

Product Features

- High performance of transmission, Sweep frequency up to 400 MHz
- UL Listed for use in plenum areas
- Sunlight resistant
- UL verified for wet location (Long term insulation resistance test in water)
- Oil resistance
- Cold impact for outdoor use

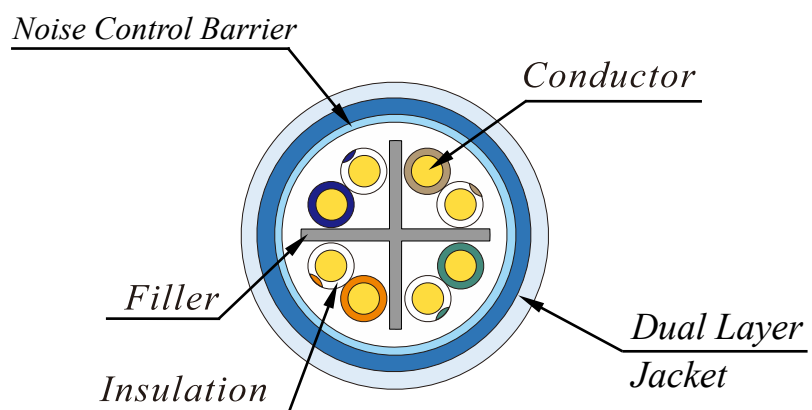
Application

- Structure cabling for Indoor/Outdoor CMP cable.
- Overall metal shielded providing good protection from EMI noise.
- IEEE 802.3ab 1000BASE-T, 1000BASE-TX and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3bt Type 3 (60W PoE++) / IEEE 802.3bt Type 4 (100W PoE++)

Applicable Standard

- Electrical Transmission
 - ANSI/TIA-568.2-D (2018)
 - ISO/IEC 11801-1
 - IEC 61156-5 (2020)
- Flame Test
 - NFPA 262 (CMP)
 - UL 2556 (CMX)
 - UL 1685 (CM)
- Material and Construction
 - UL 13 Oil & Water resistance
 - UL 444 CMX Outdoor
 - CSA 22.2 NO.214
- EU Directive 2011/65/EU & 2015/863/EU
- EU Directive 2006/95/EC (LVD)

Sectional Drawing



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Material and Construction

Conductor	Material	23AWG solid bare copper	
Insulation	Material	Fluorinated Ethylene Propylene (FEP)	
	Color code & diameter	Blue & white/blue stripe	1.07 ± 0.02 mm
		Orange & white/orange stripe	1.02 ± 0.02 mm
		Green & white/green stripe	1.06 ± 0.02 mm
Brown & white/brown stripe		1.02 ± 0.02 mm	
Twisted	Description	Left hand direction	
Filler	Material	Fluorinated Ethylene Propylene (FEP)	
Assembly	Description	Left hand direction	
Barrier	Material	Noise Control Barrier	
Jacket	Material	Low smoke flame retardant polyvinyl chloride (LSFRPVC)	
	Diameter	6.4 ± 0.2 mm	
	Thickness	0.30 ± 0.05 mm	
	Color	Per customer's request	
Jacket	Material	Polyvinylidene Difluoride (PVDF)	
	Diameter	6.9 ± 0.2 mm	
	Thickness	0.25 ± 0.05 mm	
	Color	Nature color (transparent or translucent)	
Marking	<p>ELITE CAT 6 GIGASYSTEM TESTED TO 400MHz --- E142890 UTP 4PR 23AWG 90°C C(UL)US CMX OUTDOOR-CMP Sunlight & Oil resistance wet location --- VERIFIED TO TIA-568.2-D mmyy¹ RoHS COMPLIANT XXXXFT</p> <p>Note 1: mmyy is date code.</p>		

Usage & Environmental Condition

Temperature range	Storage & shipping	-40°C to 90°C
	Installation	0°C to 60°C
	Operation	-40°C to 90°C
Minimum bending radius	≥ 8 times of overall diameter	
Maximum pulling tension	≤ 110 N	

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Physical & Electrical Characteristics (at 20°C)

Spark test	2.5 KV DC
300 & 720 hours Weatherometer Test	Pass
AC leakage current through overall jacket	≤ 10mA (1.5KV AC)
Cable cold bend	-20°C for 4 hr
Conductor DC resistance	≤ 9.38 Ω/100m
Resistance unbalance	≤ 5%
Dielectric strength	1.5 KV ac for 2 s
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 330 pF/100m

Transmission Performance (at 20°C)

Frequency (MHz)	IL	NEXT	PS.NEXT	ACR	PS.ACR	ACRF	PS.ACRF	RL	Propagation Delay	Delay Skew
	Max. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Max. ns/100m	Max. ns/100m
1	2.03	74.30	72.30	72.28	70.28	67.80	64.80	20.00	570.00	45.00
4	3.78	65.27	63.27	61.49	59.49	55.76	52.76	23.01	552.00	
8	5.32	60.75	58.75	55.43	53.43	49.74	46.74	24.52	546.73	
10	5.95	59.30	57.30	53.35	51.35	47.80	44.80	25.00	545.38	
16	7.55	56.24	53.24	48.68	46.68	43.72	40.72	25.00	543.00	
20	8.47	54.78	52.78	46.31	44.31	41.78	38.78	25.00	542.05	
25	9.51	53.33	51.33	43.83	41.83	39.84	36.84	24.32	541.20	
31.25	10.67	51.88	49.88	41.20	39.20	37.90	34.90	23.64	540.44	
62.5	15.38	47.36	45.36	31.98	29.98	31.88	29.88	21.54	538.55	
100	19.80	44.30	42.30	24.50	22.50	27.80	24.80	20.11	537.60	
150	24.71	41.66	39.66	16.95	14.95	24.28	21.28	18.87	536.94	
200	28.98	39.78	37.78	10.80	8.80	21.78	18.78	18.00	536.55	
250	32.85	38.33	36.33	5.48	3.48	19.84	16.84	17.32	536.28	
300	36.43	37.14	35.14	0.72	N.A.	18.26	15.26	16.77	536.08	
350	39.79	36.14	34.14	N.A.	N.A.	16.92	13.92	16.30	535.92	
400	42.97	35.27	33.27	N.A.	N.A.	15.76	12.76	15.89	535.80	

Values above 250MHz are for information only.