

# Elite Cables

## Product Part Number

- TUR2425N09

## Product Description

- U/UTP, 24AWG 25pair solid bare copper, CAT.5E, CMR
- With rip cord

## Product Features

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 350 MHz.

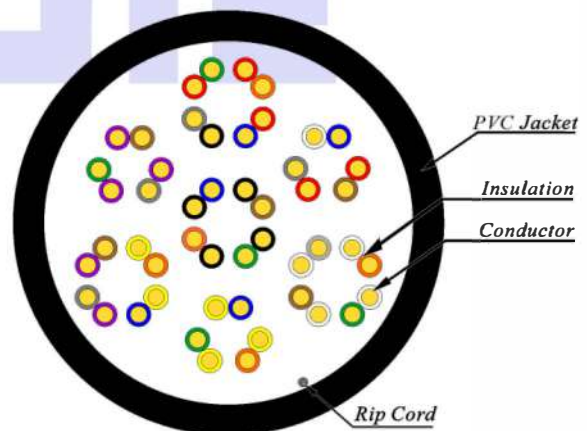
## Application

- Structure cabling for horizontal and building backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3u 100BASE-T and legacy speeds.
- CDDI / ATM / Token Ring

## Applicable Standard

- Electrical Transmission
  - TIA/EIA-568-A (2000)
- Flame Test
  - UL 1666 (CMR)
- Material and Construction
  - UL 444
  - CSA 22.2 NO.214
- EU Directive 2011/65/EC (RoHS2)
- EU Directive 2006/95/EC (LVD)
- CE compliance date: 2010.01.01

## Sectional Drawing



# Elite Cables

## Material and Construction

Conductor	Material	24AWG solid bare copper		
Insulation	Material	Polyolefin (PO)		
	Color code	Black & Blue	White & Blue	Violet & Blue
		Black & Orange	White & Orange	Violet & Orange
		Black & Green	White & Green	Violet & Green
		Black & Brown	White & Brown	Violet & Brown
		Black & Grey	White & Grey	Violet & Grey
		Red & Blue	Yellow & Blue	
		Red & Orange	Yellow & Orange	
		Red & Green	Yellow & Green	
		Red & Brown	Yellow & Brown	
Red & Grey	Yellow & Grey			
	Diameter	0.94 ± 0.02 mm		
Twisted	Description	Left hand direction		
Assembly	Description	3 core assemble with 3 pairs 4 core assemble with 4 pairs 7 core assemble with left hand direction		
Rip cord	Material	Polyester multi-yarn		
Jacket	Material	Flame retardant polyvinyl chloride (FRPVC)		
	Diameter	13.0 ± 0.3 mm		
	Thickness	0.77 ± 0.07 mm		
	Color	Per customer's request		
Marking	ELITE 100 E142890 UTP 25PR 24AWG 75°C C(UL)US CMR---ETL VERIFIED TO TIA-568-C. 2 CAT 5e XXXXXXFT			

## Usage & Environmental Condition

Temperature range	Storage & shipping	-20°C to 75°C
	Installation	0°C to 60°C
	Operation	-20°C to 60°C
Minimum bending radius	≥ 4 times of overall diameter	
Maximum pulling tension	≤ 110 N	

# Elite Cables

## Physical & Electrical Characteristics (at 20°C)

Temperature & voltage rating	75°C /300V
Spark test	2.5 KV DC
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
Insulation resistance	≥ 5000 MΩ · m
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	2.04	65.30	62.30	63.26	60.26	63.80	60.80	20.00	570.00	45.00
4	4.05	56.27	53.27	52.22	49.22	51.76	48.76	23.01	552.00	
8	5.77	51.75	48.75	45.99	42.99	45.74	42.74	24.52	546.73	
10	6.47	50.30	47.30	43.83	40.83	43.80	40.80	25.00	545.38	
16	8.25	47.24	44.24	38.99	35.99	39.72	36.72	25.00	543.00	
20	9.27	45.78	42.78	36.52	33.52	37.78	34.78	25.00	542.05	
25	10.42	44.33	41.33	33.91	30.91	35.84	32.84	24.32	541.20	
31.25	11.72	42.88	39.88	31.15	28.15	33.90	30.90	23.64	540.44	
62.5	16.99	38.36	35.36	21.37	18.37	27.88	24.88	21.54	538.55	
100	21.98	35.30	32.30	13.33	10.33	23.80	20.80	20.11	537.60	
150	27.54	32.66	29.66	5.11	2.11	20.28	17.28	18.87	536.94	
200	32.42	30.78	27.78	N.A.	N.A.	17.78	14.78	18.00	536.55	
250	36.85	29.33	26.33	N.A.	N.A.	15.84	12.84	17.32	536.28	
300	40.97	28.14	25.14	N.A.	N.A.	14.26	11.26	16.77	536.08	
350	44.85	27.14	24.14	N.A.	N.A.	12.92	9.92	16.30	535.92	

Values above 100MHz are for information only.