

# Elite Cable

## Product Part Number---TSM2804S03XX

U/FTP, 28AWG stranded bare copper, CAT.6A, CM, 650MHz

### APPLICATION

- Structure cabling for patch cable.
- Transmission of digital and analogue for data, video, and audio applications.
- Each pairs with metal shielded providing good protection from EMI noise.
- IEEE 802.3an 10GBASE-T and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

### STANDARD COMPLIANCES

- ANSI/TIA-568.2-D (2018)
- ISO/IEC 11801-1
- IEC 61156-5 (Edition 2.1)
- UL 1685 (CM)
- UL 444
- CSA 22.2 NO.214
- EU Directive 2011/65/EU (RoHS2)
- EU Directive 2006/95/EC (LVD)

### CONSTRUCTION

#### Conductors

- 28 AWG stranded bare annealed copper

#### Insulation

- CM: Polyolefin (PO)

#### Color Code

- Pair 1: Blue-White 0.85 ± 0.02 mm
- Pair 2: Orange-White 0.84 ± 0.02 mm
- Pair 3: Green-White 0.85 ± 0.02 mm
- Pair 4: Brown-White 0.84 ± 0.02 mm

#### Separator

- N/A

#### Core Tape

- N/A

#### Drain wire

- 26AWG stranded tinned copper

#### Shield

- Polyester-backed aluminum foil (aluminum side out)

#### Jacket

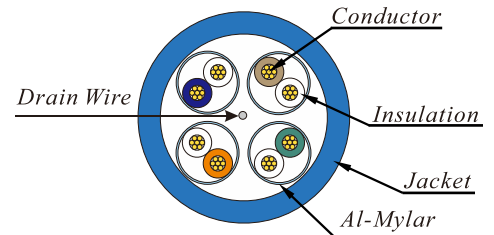
- CM: Polyvinyl chloride (PVC)

#### Marking

ELITE 10G CAT6A PATCH CABLE FOR 10 GIGABIT SYSTEM E224805-w (UL), C(UL) CM 75°C U/FTP 4PR 28AWG TIA 568.2-D mmyy RoHS COMPLIANT XXXXFT

Note 1: mmyy is date code.

### CROSS-SECTION



### ELECTRICAL CHARACTERISTICS

<b>DC Resistance</b> Ohms/100 m (328 ft) @ 20°C	23.6
<b>DC Resistance Unbalanced</b> Individual Pair %	4.00
<b>Delay Skew (Max)</b> ns/100 m	45
<b>Nom. Velocity of Propagation</b> % Speed of Light	
<b>Characteristic Impedance</b> Frequency (f):	Ohms 100 ± 15

### PHYSICAL CHARACTERISTICS

<b>Nominal Cable Diameter (mm)</b>	5.2
<b>Nominal Cable Weight (kg/1000 ft)</b>	7.95
<b>Minimum Bend Radius</b>	≥ 8 times O.D.
<b>Maximum Pulling Force</b>	≤ 110 N
<b>Temperature Rating (°C)</b> Storage & shipping: Installation: Operation:	-20°C to 75°C 0 to +60 -20 to +60

### Transmission Performance (at 20°C)

Frequency (MHz)	NEXT (Min.)	PS. NEXT (Min.)	RL (Min.)	Propagation Delay (Max.)
	dB/100m	dB/100m	dB/100m	ns/100m
1	74.30	72.30	20.00	570.00
4	65.27	63.27	23.01	552.00
8	60.75	58.75	24.52	546.73
10	59.30	57.30	25.00	545.38
16	56.24	54.24	25.00	543.00
20	54.78	52.78	25.00	542.05
25	53.33	51.33	24.17	541.20
31.25	51.88	49.88	23.33	540.44
62.5	47.36	45.36	20.74	538.55
100	44.30	42.30	18.99	537.60
150	41.66	39.66	17.47	536.94
200	39.78	37.78	16.40	536.55
250	38.33	36.33	15.57	536.28
300	37.14	35.14	14.89	536.08
350	36.14	34.14	14.31	535.92
400	35.27	33.27	13.81	535.80
450	34.50	32.50	13.37	535.70
500	33.82	31.82	12.98	535.61
550	33.19	31.19	12.62	535.54
600	32.63	30.63	12.30	535.47
650	32.11	30.11	12.00	535.41

Values above 500MHz are for information only.