

Elite Cable

Product Part Number

- TPM2804N70XX

Product Description

- U/UTP, 28AWG stranded bare copper, CAT.6, CM

Product Features

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 400 MHz.

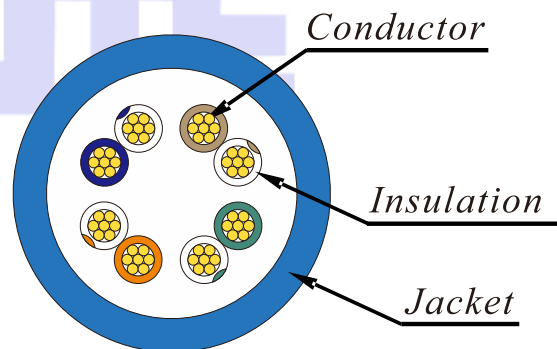
Application

- Structure cabling for patch cable.
- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3ab 1000BASE-T, 1000BASE-TX and legacy speeds.
- CDDI / ATM / Token Ring

Applicable Standard

- Electrical Transmission
 - ANSI/TIA-568.2-D (2018)
 - ISO/IEC 11801-1
 - IEC 61156-6 (Edition 3.1)
- Flame Test
 - UL 1685(CM)
- Material and Construction
 - UL 444
 - CSA 22.2 NO.214
- EU Directive 2011/65/EU & 2015/863/EU
- EU Directive 2006/95/EC (LVD)

Sectional Drawing



Establish Date	2014.03.01	Edition	1.3	Revised Date	2022.07.27
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Material and Construction

Conductor	Material	28AWG stranded bare copper	
Insulation	Material	Polyolefin (PO)	
	Color code & diameter	Blue & white/blue Stripe	0.62 ± 0.02 mm
		Orange & white/orange stripe	0.60 ± 0.02 mm
		Green & white/green stripe	0.62 ± 0.02 mm
Brown & white/brown stripe		0.60 ± 0.02 mm	
Twisted	Description	Left hand direction	
Assembly	Description	Left hand direction	
Jacket	Material	Polyvinyl chloride (PVC)	
	Diameter	3.8 ± 0.2 mm	
	Thickness	0.45 ± 0.05 mm	
	Color	Per customer's request	
Marking	ELITE 1000X PATCH CABLE CAT6 GIGASYSTEM ---E224805-w UTP 4PR 28AWG 75°C C(UL)US CM --TIA-568. 2-D mmyy RoHS COMPLIANT XXXXFT Note 1: mmyy is date code.		

Usage & Environmental Condition

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

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Physical & Electrical Characteristics (at 20°C)

Voltage and Temperature rating	300V / 75°C
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	≤ 22.3 Ω/100m
Resistance unbalance	≤ 5%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ · km
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 160 pF/100m

Transmission Performance (at 20°C)

Frequency (MHz)	IL	NEXT	PS.NEXT	RL	Propagation Delay	Delay Skew
	Max. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Max. ns/100m	Max. ns/100m
1	N.A.	74.30	72.30	20.00	570.00	45.00
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	

Values above 250MHz are for information only.

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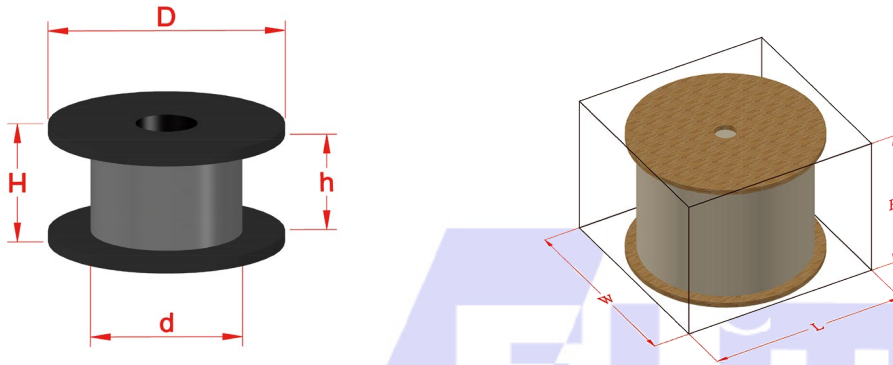
Shipping Information

Item	Dimension	Nominal net weight
Cable	305 m	4.65 kg (10.25 lb)
Plastic Reel Carton (A1-203-2)	D300 x d130 x H130 x h100 mm L312 x W312 x H150 mm	2000 g
Pallet	1100 x1150 x110 mm	14.1 kg

Container type	Capacity of pallet	Pallet of carton	Capacity of carton
20 feet	20	54/54	1080
40 feet	40	54/54	2160
40 feet(HQ)	40	54/54	2160

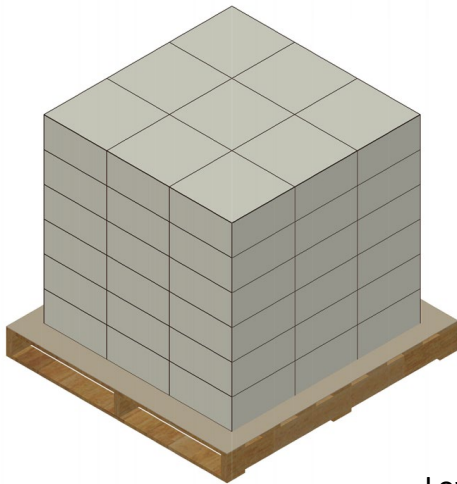
Shipping could use standard delivery form or per customer's request.
 Package information above is calculated by maximum container capacity, and for reference only.
 All shipments must follow your local transportation regulation for gross weight limit.

Schematic Drawing of Carton

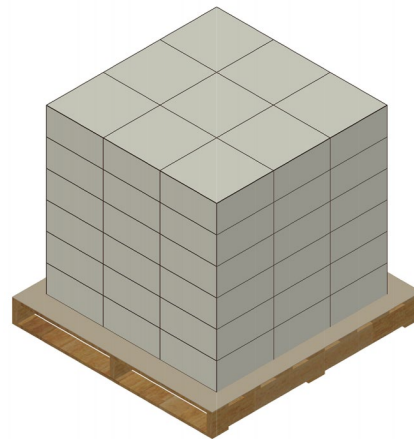


Schematic Drawing of Package

Each package of pallet delivered with plastic wrap, packing strap and paper corner protector.



Lower Pallet



Upper Pallet

AK001 / 210×297 / 1.1

Revised Information

Edition	Revised Description	Revised Date
1.2	Revised the size of the pallet and diameter and nominal net weight of cable.	2022.04.29
1.3	Add Voltage rating	2022.07.27