

Elite Cable

Product Part Number

- TPL2804N70XX

Product Description

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

Product Features

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 400 MHz.
- With reel easy to pull out.

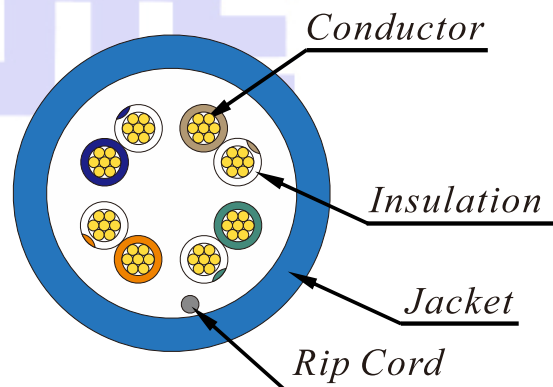
Application

- 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
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

Applicable Standard

- Electrical Transmission
 - ISO/IEC 11801-1
 - IEC 61156-6 (Edition 3.1)
- Flame Test
 - IEC 60332-1-2
 - IEC 61034-1 / 61034-2
 - IEC 60754-2
- Material and Construction
 - IEC 61156-6 (Edition 3.1)
- EU Directive 2011/65/EU & 2015/863/EU
- EU Directive 2006/95/EC (LVD)

Sectional Drawing



Establish Date	2021.10.28	Edition	1.4	Revised Date	2022.07.27
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Infinity Cable Products
641 EAST WALNUT STREET
CARSON, CA 90746
TELEPHONE # 310-327-7678
EMAIL:support@infinity-cable.com

Elite Cable

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	Low smoke zero halogen (LSZH)	
	Diameter	3.7 ± 0.2 mm	
	Thickness	0.42 ± 0.05 mm	
	Color	Per customer's request	
Marking	ELITE 1000X PATCH CABLE CAT 6 GIGASYSTEM --- UTP 4PR 28AWG 60°C LSZH --- VERIFIED TO IEC 61156-6 CAT 6 mmyy ¹ 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
NVP	68%

Transmission Performance (at 20°C)

Frequency (MHz)	IL dB/100m	NEXT dB/100m	PS.NEXT dB/100m	RL dB/100m	Propagation Delay ns/100m	Delay Skew ns/100m
1	N.A.	75.30	72.30	20.00	570.00	45.00
4		66.27	63.27	23.01	552.00	
8		61.75	58.75	24.52	546.73	
10		60.30	57.30	25.00	545.38	
16		57.24	54.24	25.00	543.00	
20		55.78	52.78	25.00	542.05	
25		54.33	51.33	24.17	541.20	
31.25		52.88	49.88	23.33	540.44	
62.5		48.36	45.36	20.74	538.55	
100		45.30	42.30	18.99	537.60	
150		42.66	39.66	17.47	536.94	
200		40.78	37.78	16.40	536.55	
250		39.33	36.33	15.60	536.28	
300		38.14	35.14	15.60	536.08	
350		37.14	34.14	15.60	535.92	
400		36.27	33.27	15.60	535.80	

Values above 250MHz are for information only.

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Shipping Information

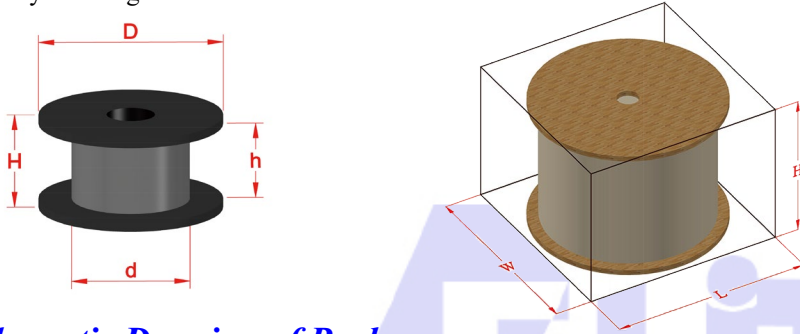
Item	Dimension	Nominal net weight
Cable	305 m	4.58 kg (10.1 lb)
Plastic Reel	D300 x d130 x H130 x h100 mm	800 g
Carton (A1-203-2)	312 x 312 x 150 mm	511 g
Pallet (A)	1100 x 1150 x 110 mm	14.1 kg

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

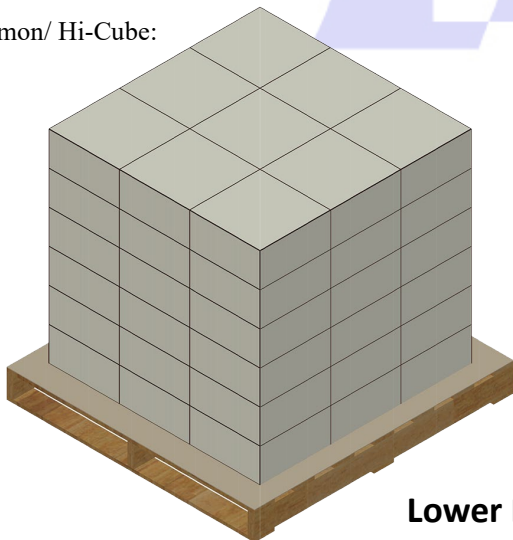
Two layer corrugated carton.



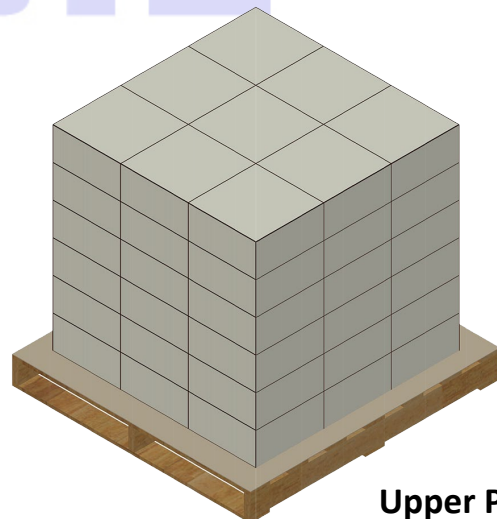
Schematic Drawing of Package

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

Common/ Hi-Cube:



Lower Pallet



Upper Pallet

AK001 / 210×297 / 1.1

Revised Information

Edition	Revised Description	Revised Date
1.2	Revised the Marking	2022.03.02
1.3	Revised the size of the pallet	2022.04.29
1.4	Add Voltage rating	2022.07.27