

ABA Industry, Inc.

Specification for Approval

Product Part Number

- TUP2404N70XX-S

Product Description

- U/UTP, 23AWG solid bare copper, CAT.6, CMP
- With cross filler
- With rip cord

Product Features

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 600 MHz.
- Reelex II carton and easy to pull out.
- Carton with one layer corrugated design providing sufficient strength and saving packaging space.

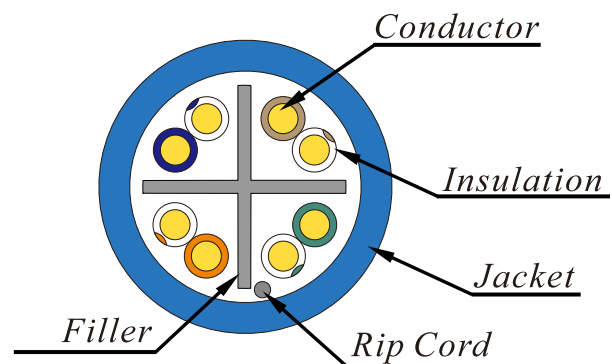
Application

- Structure cabling for horizontal and building backbone 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+) / IEEE 802.3bt (PoE++)

Applicable Standard

- Electrical Transmission
 - ANSI/TIA-568.2-D (2018)
 - ISO/IEC 11801-1
 - IEC 61156-5 (Edition 2.1)
- Flame Test
 - NFPA 262 (CMP)
- 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 TM



All Material According To SS-00259

Establish Date	2017.01.25	Edition	2.3	Revised Date	2022.07.27
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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	0.95 ± 0.02 mm
		Orange & white/orange stripe	0.92 ± 0.02 mm
		Green & white/green stripe	0.94 ± 0.02 mm
		Brown & white/brown stripe	0.92 ± 0.02 mm
Twisted	Description	Left hand direction	
Filler	Material	Polyolefin (PO)	
Assembly	Description	Left hand direction	
Rip cord	Material	Polyester multi-yarn	
Jacket	Material	Low smoke flame retardant polyvinyl chloride (LSFRPVC)	
	Diameter	5.6 ± 0.2 mm	
	Thickness	0.38 ± 0.05 mm	
	Color	Per customer's request	
Marking	ELITE 1000X CAT 6E GIGASYSTEM TESTED TO 600MHz---E142890 UTP 4PR 23AWG 105°C C(UL)U CMP-LP(0.6A)(PCC-FT6)---ETL & 3P VERIFIED TO TIA-568.2-D ISO/IEC 11801-1 mmyy ¹ RoH COMPLIANT XXXXFT		
	Note 1: mmyy is date code.		

Usage & Environmental Condition

Temperature range	Storage & shipping	-20°C to 105°C
	Installation	0°C to 60°C
	Operation	-20°C to 105°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	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 • km
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 330 pF/100m

Transmission Performance (at 20°C)

Frequency	IL	NEXT	PS.NEXT	ACR	PS.ACR	ACRF	PS.ACRF	RL	Propagation Delay	Delay Skew
(MHz)	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	54.24	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	28.88	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	
450	46.01	34.50	32.50	N.A.	N.A.	14.74	11.74	15.53	535.70	
500	48.94	33.82	31.82	N.A.	N.A.	13.82	10.82	15.21	535.61	
550	51.76	33.19	31.19	N.A.	N.A.	12.99	9.99	14.92	535.54	
600	54.49	32.63	30.63	N.A.	N.A.	12.24	9.24	14.66	535.47	

Values above 250MHz are for information only.

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Shipping Information

Item	Dimension	Nominal net weight
Cable	305 m	12.46 kg (27.47 lb)
Reelex II Carton	L386 x W270 x H370 mm	1120 g
Pallet	1100 x1150 x110 mm	14.1 kg

Container type	Capacity of pallet	Pallet of carton	Capacity of carton
20 feet	20	30/20	500
40 feet	40	30/20	1000
40 Hi-Cube	40	30/30	1200

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.

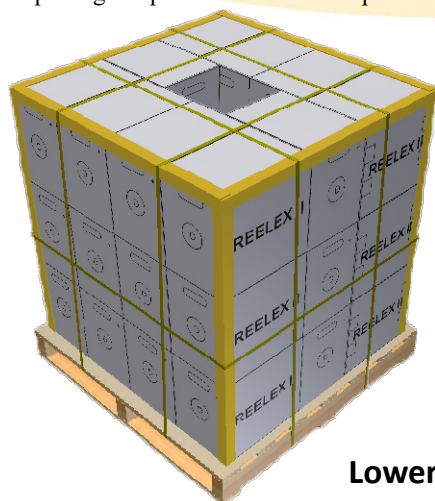
Schematic Drawing of Carton

One layer corrugated Reelex II carton.

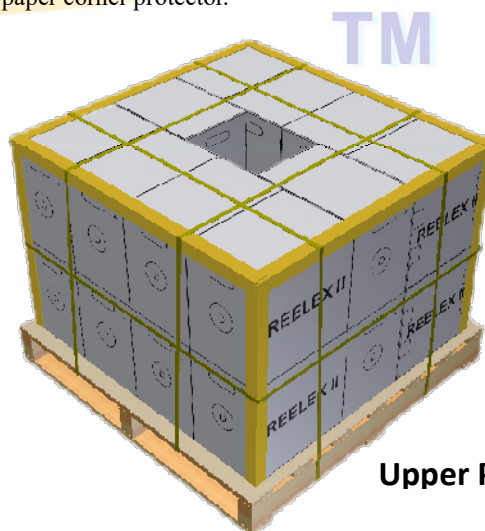


Schematic Drawing of Package

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
2.2	Revised the size of Pallet	2022.04.29
2.3	Add Voltage rating	2022.07.27