

ABA Industry, Inc.

Specification for Approval

Product Part Number

- TUX2404XB41

Product Description

- U/UTP, 24AWG solid bare copper, CAT.6E, CMX outdoor Direct Burial
- With cross filler
- Sunlight resistant
- Gel Filling

Product Features

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 550 MHz.

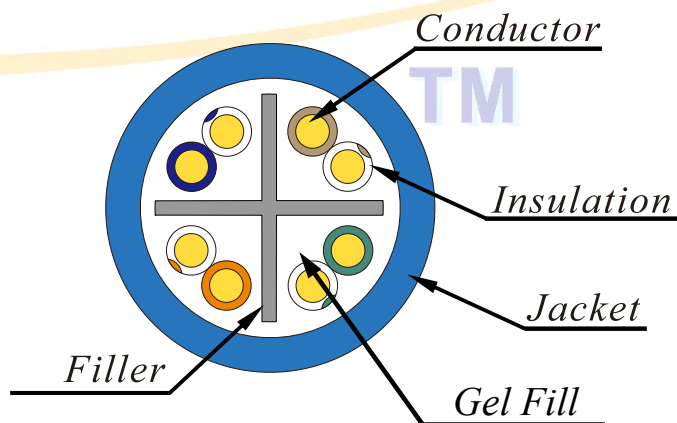
Application

- 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
 - ANSI/TIA-568.2-D (2018)
 - ISO/IEC 11801-1 (Edition 2.2)
 - IEC 61156-5 (Edition 2.1)
- Flame Test
 - UL 2556 (CMX)
- Material and Construction
 - UL 444
 - UL 13 (sec.35 & 36)
 - 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



All Material According To SS-00259

Establish Date	2018.06.01	Edition	1.2	Revised Date	2020.03.10
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Material and Construction

Conductor	Material	24AWG solid bare copper	
Insulation	Material	Polyolefin (PO)	
	Color code & diameter	Blue & white/blue Stripe	0.99 ± 0.02 mm
		Orange & white/orange stripe	0.97 ± 0.02 mm
		Green & white/green stripe	0.99 ± 0.02 mm
		Brown & white/brown stripe	0.97 ± 0.02 mm
Twisted	Description	Left hand direction	
Filler	Material	Polyolefin (PO)	
Waterproof	Material	Gel	
Assembly	Description	Left hand direction	
Jacket	Material	Polyethylene (PE)	
	Diameter	7.2 ± 0.2 mm	
	Thickness	0.8 ± 0.08 mm	
	Color	Per customer`s request	
Marking	ELITE UTP CAT6E 4PR/24AWG TIA-568. 2-D DIR BUR SUN RES 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 60°C
Minimum bending radius		≥ 4 times of overall diameter
Maximum pulling tension		≤ 110 N

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Physical & Electrical Characteristics (at 20°C)

Temperature rating	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	≤ 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

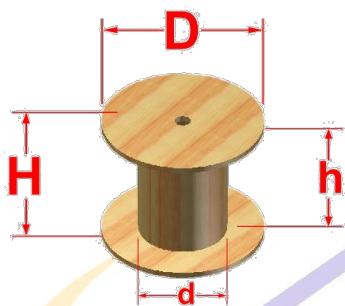
Item	Dimension	Nominal net weight
Cable	305 m	15.03 kg (33.13lb)
Plywood reel	D350 x d150 x H250 x h230 mm	1.50 kg
Pallet	1150 x1150 x120 mm	14.1 kg

Container type	Capacity of pallet	Pallet of reel	Capacity of reel
20 feet	20	36/36	720
40 feet	40	36/36	1440

Shipping could use standard delivery form or per customer's request.

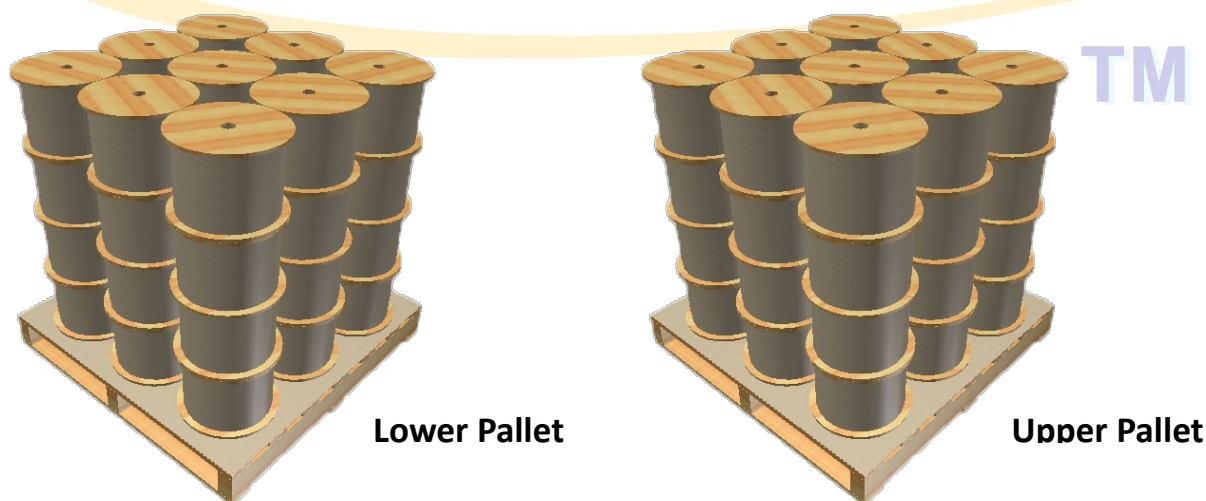
Schematic Drawing of Reel & Package

Fumigated plywood reel.



Schematic Drawing of Package

Each package of pallet delivered with plastic wrap and packing strap.



AK001 / 210×297 / 1.1

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