

Specification for Approval

Product Part Number

- TUX2404P##

Product Description

- U/UTP, 24AWG solid bare copper, CAT.5E, CMX outdoor DIRECT BURIAL
- Sunlight resistant
- Gel fill for water prove

Product Features

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 350 MHz.

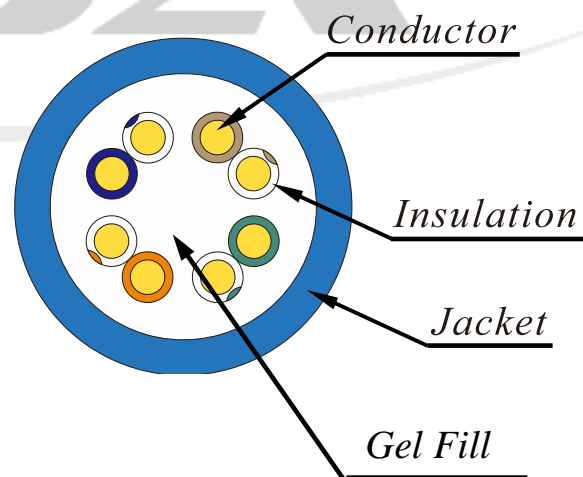
Application

- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3u 100BASE-T and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

Applicable Standard

- Electrical Transmission
 - ANSI/TIA-568-C.2 (2009)
 - ISO/IEC 11801 (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/EU (RoHS2)
- EU Directive 2006/95/EC (LVD)
- CE compliance date: 2010.01.01

Sectional Drawing



All Material According To SS-00259

Establish Date	2017.10.23	Edition	1.0	Revised Date	
----------------	------------	---------	-----	--------------	--

ABA Industry, Inc.
 639 EAST WALNUT STREET
 CARSON, CA 90746
 NEW TELEPHONE # 310-327-7670
 NEW FAX # 310-808-0778
 TOLL FREE 888-534-7776

ABA Industry, Inc.

Specification for Approval

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	
Waterproof	Material	Gel	
Assembly	Description	Left hand direction	
Jacket	Material	Polyethylene (PE)	
	Diameter	6.0 ± 0.2 mm	
	Thickness	0.80 ± 0.02 mm	
	Color	Per customer's request	
Marking	ELITE 350 CAT 5E GIGASYSTEM TESTED TO 350MHz --- E142890 UTP 4PR 24AWG 75°C C(UL)US CMX OUTDOOR UV RESISTANT Direct Burial --- ETL VERIFIED TO TIA-568-C.2 mmyy1 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	

ABA Industry, Inc.

Specification for Approval

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 (MHz)	IL	NEXT	PS.NEXT	ACR	PS.ACR	ACRF	PS.ACRF	RL	Propagation Delay	Delay Skew
	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	2.04	65.30	62.30	63.26	60.26	63.80	60.80	20.00	570.00	45.00
4	4.05	56.27	53.27	52.22	49.22	51.76	48.76	23.01	552.00	
8	5.77	51.75	48.75	45.99	42.99	45.74	42.74	24.52	546.73	
10	6.47	50.30	47.30	43.83	40.83	43.80	40.80	25.00	545.38	
16	8.25	47.24	44.24	38.99	35.99	39.72	36.72	25.00	543.00	
20	9.27	45.78	42.78	36.52	33.52	37.78	34.78	25.00	542.05	
25	10.42	44.33	41.33	33.91	30.91	35.84	32.84	24.32	541.20	
31.25	11.72	42.88	39.88	31.15	28.15	33.90	30.90	23.64	540.44	
62.5	16.99	38.36	35.36	21.37	18.37	27.88	24.88	21.54	538.55	
100	21.98	35.30	32.30	13.33	10.33	23.80	20.80	20.11	537.60	
150	27.54	32.66	29.66	5.11	2.11	20.28	17.28	18.87	536.94	
200	32.42	30.78	27.78	N.A.	N.A.	17.78	14.78	18.00	536.55	
250	36.85	29.33	26.33	N.A.	N.A.	15.84	12.84	17.32	536.28	
300	40.97	28.14	25.14	N.A.	N.A.	14.26	11.26	16.77	536.08	
350	44.85	27.14	24.14	N.A.	N.A.	12.92	9.92	16.30	535.92	

Values above 100MHz are for information only.

ABA Industry, Inc.

Specification for Approval

Shipping Information

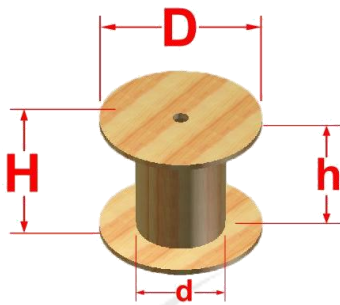
Item	Dimension	Nominal net weight
Cable	305 m	10.8kg (22.5 lb)
Plywood Reel	D320 x d150 x H250 x h230 mm	1.25 kg
Pallet	1150 x1150 x120 mm	14.1 kg

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

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

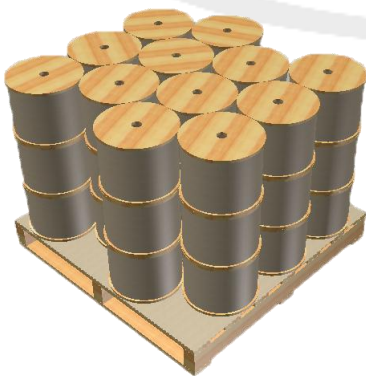
Schematic Drawing of Carton

One layer corrugated Reelex II carton.

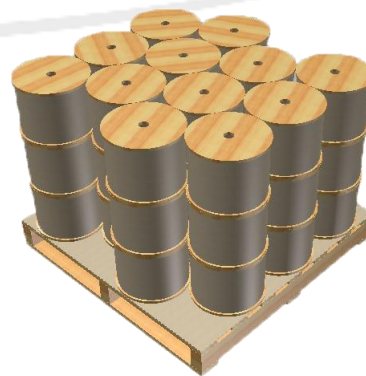


Schematic Drawing of Package

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



Lower Pallet



Upper Pallet

AK001 / 210×297 / 1.1

MAKER : *Kyle Chang*

CONFIRM : *Mark Lu*

APPROVAL : *Peter Lai*