

ABA Industry, Inc.

Specification for Approval

Product Part Number

- TSP2404N09XX

Product Description

- F/UTP, 24AWG solid bare copper, CAT.5E, CMP
- Overall metal foil screen with drain wire

Product Features

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

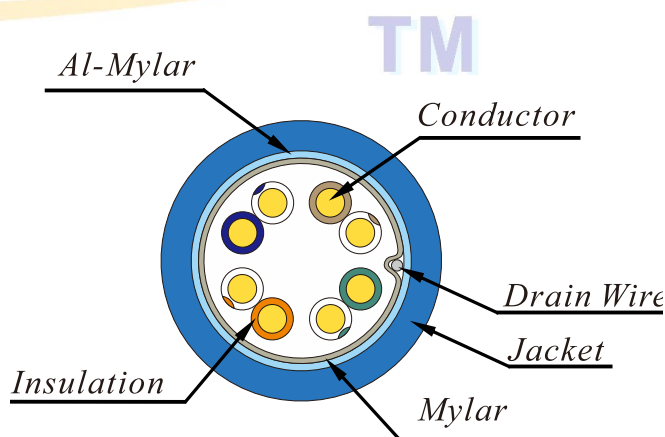
Application

- Structure cabling for horizontal and building backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- Overall metal shielded providing good protection from EMI noise.
- 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-568.2-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



All Material According To SS-00259

Establish Date	2014.03.01	Edition	1.6	Revised Date	2022.07.27
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Specification for Approval

Material and Construction

Conductor	Material	24AWG solid bare copper	
Insulation	Material	Fluorinated Ethylene Propylene (FEP)	
	Color code & diameter	Blue & white/blue Stripe	1.01 ± 0.02 mm
		Orange & white/orange stripe	0.99 ± 0.02 mm
		Green & white/green stripe	1.01 ± 0.02 mm
		Brown & white/brown stripe	0.99 ± 0.02 mm
Twisted	Description	Left hand direction	
Assembly	Description	Left hand direction	
Shield	Material	Mylar tape	
Drain wire	Material	26AWG solid tinned copper	
Shield	Material	Al Mylar tape	
	Description	100 % coverage and mylar side facing out	
Jacket	Material	Low smoke flame retardant polyvinyl chloride (LSFRPVC)	
	Diameter	5.8 ± 0.2 mm	
	Thickness	0.43 ± 0.05 mm	
	Color	Per customer's request	
Marking	ELITE 350 CAT 5E GIGASYSTEM TESTED TO 350MHZ---E142890 FTP 4PR 24AWG 75°C CMP(PCC-FT6) C(UL)US---3P VERIFIED TO TIA-568. 2-D mmyy ¹ RoHS COMPLIANT XXXFT		
	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		≥ 8 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	≤ 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
Nominal Velocity of Propagation	72%

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	2.04	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.

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Specification for Approval

Shipping Information

Item	Dimension	Nominal net weight
Cable	305 m	13.27 kg (29.25 lb)
Plywood reel	D320 x d150 x H254 x h230 mm	1.6 kg
Pallet	1100 x1150 x110 mm	14.1 kg

Container type	Capacity of pallet	Pallet of reel	Capacity of reel
20 feet	20	48/48	960
40 feet	26	48/48	1248
40 feet HQ	26	48/48	1248

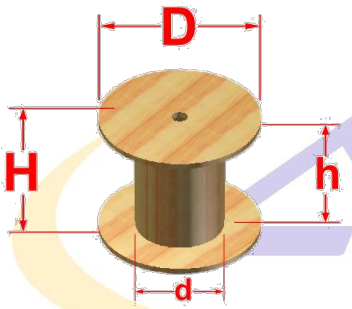
Shipping could use standard delivery form or per customer's request.

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.

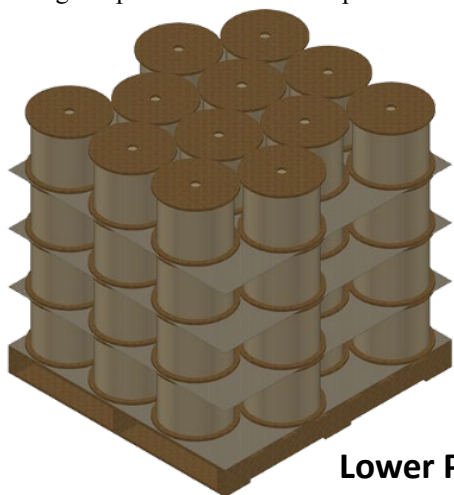
Schematic Drawing of Reel & Package

Fumigated plywood reel.

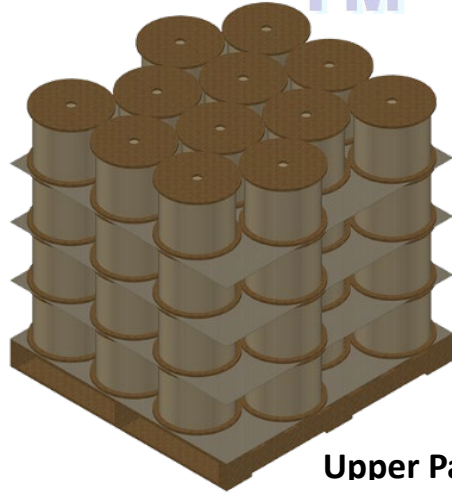


Schematic Drawing of Package

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



Lower Pallet



Upper Pallet

AK001 / 210×297 / 1.1

Revised Information

Edition	Revised Description	Revised Date
1.5	Revised the size of the pallet	2022.04.29
1.6	Add Voltage rating	2022.07.27