

ABA Industry, Inc.

Specification for Approval

Product Part Number

- TPM2604N70XX

Product Description

- U/UTP, 26AWG stranded bare copper, CAT.6, CM

Product Features

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 400 MHz.
- Reelex II carton and easy to pull out.
- Carton with one layer corrugated design providing sufficient strength and saving packaging space.

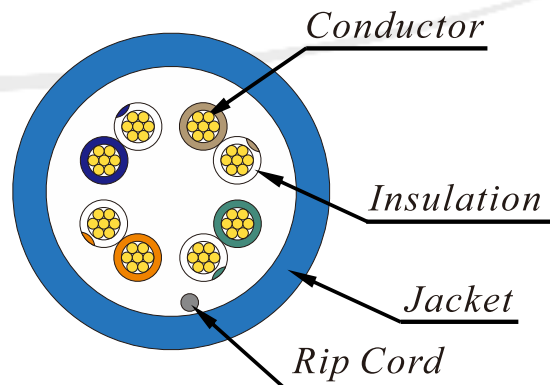
Application

- Structure cabling for 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

Applicable Standard

- Electrical Transmission
 - ANSI/TIA-568-C.2 (2009)
 - ISO/IEC 11801 (Edition 2.2)
 - IEC 61156-6 (Edition 2.0)
- Flame Test
 - UL 1685 (CM)
- Material and Construction
 - UL 444
 - 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



Establish Date	2014.03.01	Edition	1.0	Revised Date	
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Material and Construction

Conductor	Material	26AWG stranded bare copper	
Insulation	Material	Polyolefin (PO)	
	Color code & diameter	Blue & white/blue Stripe	0.78 ± 0.02 mm
		Orange & white/orange stripe	0.76 ± 0.02 mm
		Green & white/green stripe	0.78 ± 0.02 mm
Brown & white/brown stripe		0.76 ± 0.02 mm	
Twisted	Description	Left hand direction	
Assembly	Description	Left hand direction	
Jacket	Material	Flame retardant polyvinyl chloride (FRPVC)	
	Diameter	4.6 ± 0.2 mm	
	Thickness	0.60 ± 0.05 mm	
	Color	Per customer's request	
Marking	ELITE 1000X PATCH CABLE CAT 6 GIGASYSTEM---E142890 UTP 4PR 26AWG 75°C C(UL)US CM---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 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 & voltage rating	75°C / 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	≤ 14 Ω/100m
Resistance unbalance	≤ 5%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ · m
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 160 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	2.43	77.30	75.30	74.87	72.87	70.80	67.80	20.00	570.00	45.00
4	4.54	68.27	66.27	63.73	61.73	58.76	55.76	23.01	552.00	
8	6.38	63.75	61.75	57.37	55.37	52.74	49.74	24.52	546.73	
10	7.14	62.30	60.30	55.16	53.16	50.80	47.80	25.00	545.38	
16	9.06	59.24	57.24	50.17	48.17	46.72	43.72	25.00	543.00	
20	10.16	57.78	55.78	47.62	45.62	44.78	41.78	25.00	542.05	
25	11.41	56.33	54.33	44.92	42.92	42.84	39.84	24.17	541.20	
31.25	12.81	54.88	52.88	42.07	40.07	40.90	37.90	23.33	540.44	
62.5	18.46	50.36	48.36	31.90	29.90	34.88	31.88	20.74	538.55	
100	23.76	47.30	45.30	23.54	21.54	30.80	27.80	18.99	537.60	
150	29.65	44.66	42.66	15.01	13.01	27.28	24.28	17.47	536.94	
200	34.78	42.78	40.78	8.00	6.00	24.78	21.78	16.40	536.55	
250	39.42	41.33	39.33	N.A.	N.A.	22.84	19.84	15.57	536.28	
300	43.71	40.14	38.14	N.A.	N.A.	21.26	18.26	14.89	536.08	
350	47.74	39.14	37.14	N.A.	N.A.	19.92	16.92	14.31	535.92	
400	51.56	38.27	36.27	N.A.	N.A.	18.76	15.76	13.81	535.80	

Values above 250MHz are for information only.

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Shipping Information

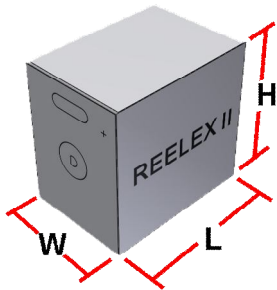
Item	Dimension	Nominal net weight
Cable	305 m	7.2 kg (15.87 lb)
Reelex II Carton	L353 x W240 x H360 mm	880 g
Pallet	1150 x1150 x120 mm	14.1 kg

Container type	Capacity of pallet	Capacity of carton
20 feet	20	650
40 feet	40	1300

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

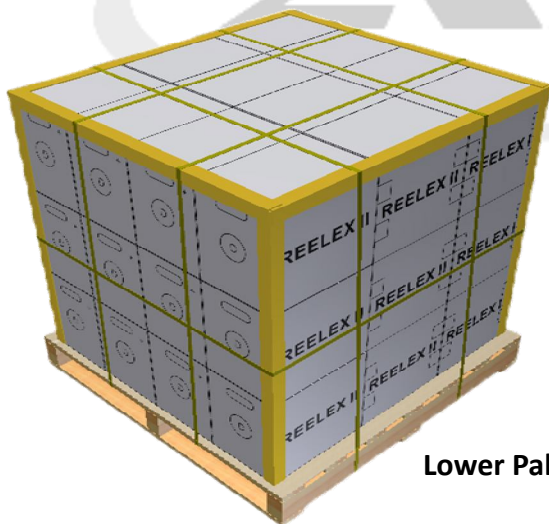
Schematic Drawing of Carton

One layer corrugated Reelex II carton.

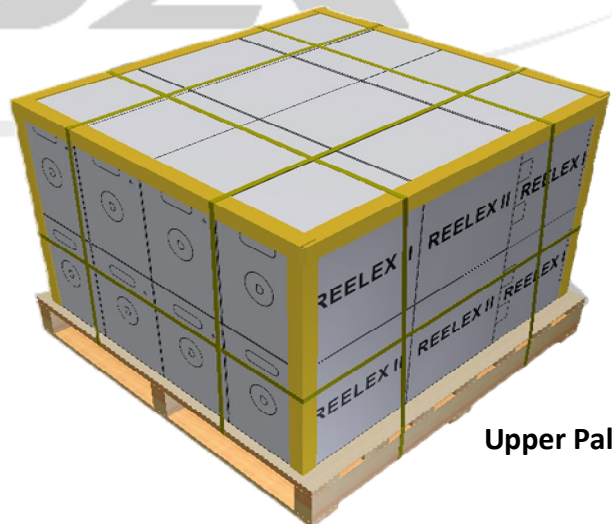


Schematic Drawing of Package

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



Lower Pallet



Upper Pallet

Revised Information

Edition	Revised Description	Revised Date