

ABA Industry, Inc.

Specification for Approval

Product Part Number

- TUR2404N70XX-S

Product Description

- U/UTP, 24AWG solid bare copper, CAT.6, CMR
- 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.

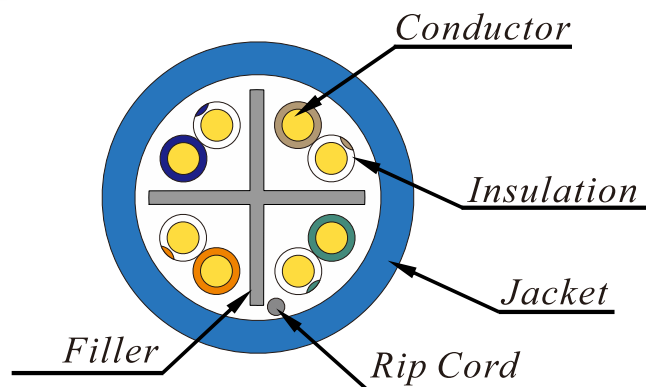
Application

- 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
 - UL 1666 (CMR)
- 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 | 2017.10.23 | Edition | 1.5 | Revised Date | 2022.07.27 |
|----------------|------------|---------|-----|--------------|------------|

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Material and Construction

| | | | |
|----------------------------|---|--|----------------|
| Conductor | Material | 24AWG solid bare copper | |
| Insulation | Material | Polyolefin (PO) | |
| | Color code & diameter | Blue & white/blue Stripe | 0.96 ± 0.02 mm |
| | | Orange & white/orange stripe | 0.92 ± 0.02 mm |
| | | Green & white/green stripe | 0.95 ± 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 | Flame retardant polyvinyl chloride (FRPVC) | |
| | Diameter | 5.9 ± 0.2 mm | |
| | Thickness | 0.50 ± 0.05 mm | |
| | Color | Per customer's request | |
| Marking | ELITE 1000X CAT 6E GIGASYSTEM TESTED TO 600MHz---E142890 UTP 4PR 24AWG 75°C C(UL)US CMR-LP(0.5A)---FT4 ETL & 3P VERIFIED TO TIA-568.2-D ISO/IEC 11801-1 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)

| | |
|---|-------------------|
| 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 | 68% |

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 | 2.03 | 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

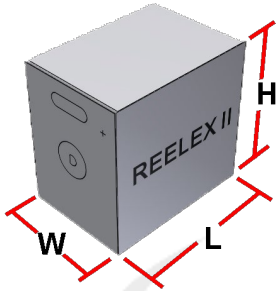
| Item | Dimension | Nominal net weight |
|------------------|-----------------------|---------------------|
| Cable | 305 m | 11.80 kg (26.01 lb) |
| Reelex II Carton | L395 x W270 x H380 mm | 1.12 kg |
| Pallet | 1100 x1150 x110 mm | 14.1 kg |

| Container type | Capacity of pallet | Pallet of carton | Capacity of carton |
|----------------|--------------------|------------------|--------------------|
| 20 feet | 20 | 30/20 | 500 |
| 40 feet | 40 | 30/20 | 1000 |
| 40 feet HQ | 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.

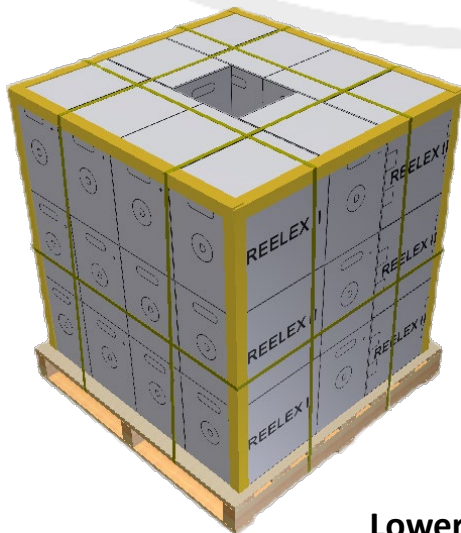
Schematic Drawing of Carton

One layer corrugated Reelex II carton.

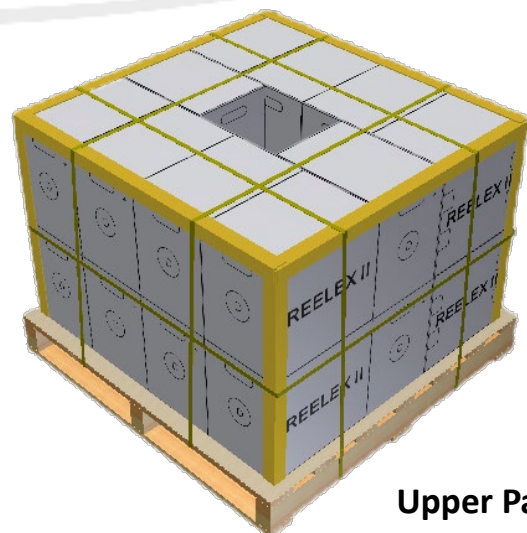


Schematic Drawing of Package

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 |
|---------|---|--------------|
| 1.4 | Revised the Marking and the size of the pallet. | 2022.04.29 |
| 1.5 | Add Voltage rating | 2022.07.27 |
| | | |