

# ABA Industry, Inc.

## Specification for Approval

### Product Part Number

TFP2204ZXX

### Product Description

- S/FTP, 22AWG solid bare copper, CAT.8, CMP
- Each pair twist with metal foil screen
- With braid wire

### Product Features

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 2000 MHz.

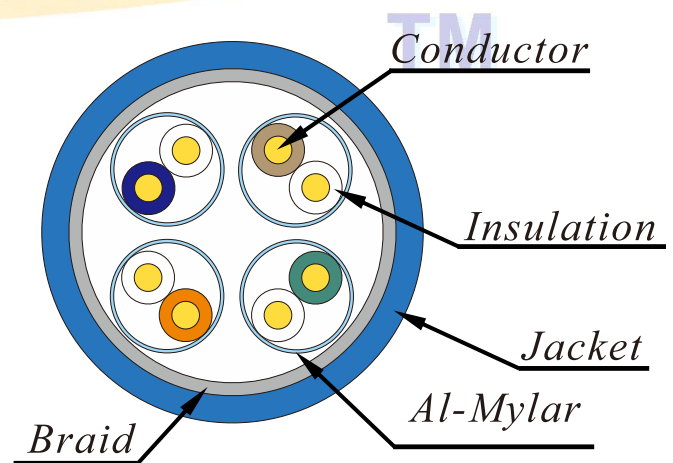
### Application

- Transmission of digital and analogue for data, video and audio applications.
- Metal shielded and braided providing good protection from EMI noise.
- Beyond IEEE Std 802.3bq-2016 25G/40GBASE-T and legacy speeds legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

### Applicable Standard

- Electrical Transmission
  - IEC 61156-9
  - ISO/IEC 11801-1
  - ANSI/TIA-568.2-D
- 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	2015.05.11	Edition	1.1	Revised Date	2021.03.13
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### Material and Construction

Conductor	Material	22AWG solid bare copper	
Insulation	Material	Fluorinated Ethylene Propylene (FEP)	
	Color code & diameter	Blue & white	1.52 ± 0.02 mm
		Orange & white	1.52 ± 0.02 mm
		Green & white	1.52 ± 0.02 mm
Brown & white		1.52 ± 0.02 mm	
Twisted	Description	Left hand direction	
Pair shield	Material	Al Mylar tape	
	Description	100 % coverage and aluminum side facing out	
Assembly	Description	Left hand direction	
Braid	Material	Tinned copper	
	Description	> 40 % coverage	
Jacket	Material	Low smoke flame retardant polyvinyl chloride (LSFRPVC)	
	Diameter	8.3 ± 0.2 mm	
	Thickness	0.45 ± 0.05 mm	
	Color	Per customer's request	
Marking	ELITE 40GS CAT 8---E142890 S/FTP 22AWG 4PR 75C C(UL)US CMP---ETL VERIFIED IEC 61156-9 & TIA-568.2-D mmyy <sup>1</sup> XXXX 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)

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	≤ 2.4 Ω/30m
Resistance unbalance	≤ 4%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ · km
Mutual capacitance	not specified
Capacitance unbalance pair-to-ground	≤ 99 pF/30m
Nominal Velocity of Propagation	75%

### Transmission Performance (at 20°C)

Frequency (MHz)	IL	NEXT	PS.NEXT	ACRF	PS.ACRF	RL	Propagation Delay	Delay Skew	PS. ANEXT	PS. AACRF
	Max. dB/30m	Min. dB/30m	Min. dB/30m	Min. dB/30m	Min. dB/30m	Min. dB/30m	Max. ns/30m	Max. ns/30m	Min. dB/30m	Min. dB/30m
1	2.0	75.3	72.3	75.0	75.0	20.0	171	13.5	80.0	80.0
4	2.0	66.3	63.3	67.0	64.0	23.0	166		80.0	80.0
8	2.0	61.8	58.8	60.9	57.9	24.5	164		80.0	80.0
10	2.0	60.3	57.3	59.0	56.0	25.0	163		80.0	80.0
16	2.2	57.2	54.2	54.9	51.9	25.0	163		80.0	78.1
20	2.5	55.8	52.8	53.0	50.0	25.0	162		80.0	76.2
25	2.8	54.3	51.3	51.0	48.0	25.0	162		80.0	74.2
31.25	3.1	52.9	49.9	49.1	46.1	25.0	162		80.0	72.3
62.5	4.4	48.4	45.4	43.1	40.1	23.6	161		80.0	66.3
100	5.6	45.3	42.3	39.0	36.0	22.2	161		80.0	62.2
200	7.9	40.8	37.8	33.0	30.0	20.1	161		80.0	56.2
250	8.9	39.3	36.3	31.0	28.0	19.4	161		80.0	54.2
300	9.8	38.1	35.1	29.5	26.5	18.9	161		80.0	52.7
400	11.4	36.3	33.3	27.0	24.0	18.0	161		78.5	50.2
500	12.8	34.8	31.8	25.0	22.0	17.3	160		77.0	48.2
600	14.1	33.6	30.6	23.4	20.4	16.8	160		75.8	46.6
1000	18.6	30.3	27.3	19.0	16.0	15.2	160		72.5	42.2
1500	23.2	27.7	24.7	15.5	12.5	14.0	160	69.9	38.7	
2000	27.2	25.8	22.8	13.0	10.0	13.1	160	68.0	36.2	

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### Shipping Information

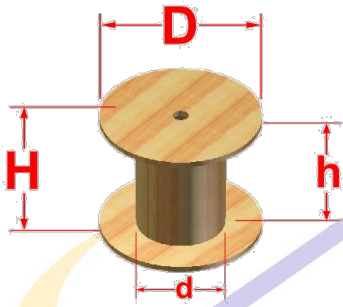
Item	Dimension	Nominal net weight
Cable	305 m	24.15 kg (53.25 lb)
Plywood reel	D440 x d270 x H320 x h290 mm	5.8 kg
Pallet	1150 x 1100 x 120 mm	14.1 kg

Container type	Capacity of pallet	Pallet of reel	Capacity of plywood reel
20 feet	20	15/15	300
40 feet	40	15/15	600

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.

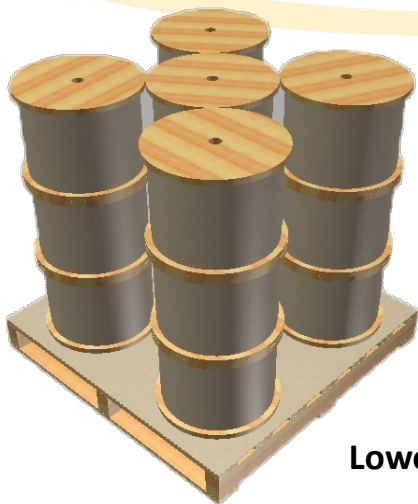
### Schematic Drawing of Reel & Package

Fumigated plywood reel.

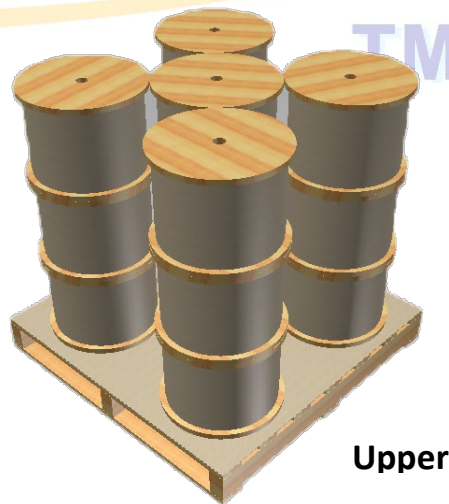


### Schematic Drawing of Package

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



**Lower Pallet**



**Upper Pallet**

### Revised Information

Edition	Revised Description	Revised Date
1.1	Add NVP	2021.03.13

AK001 / 210×297 / 1.1