

# CAT 6A 4-PAIR U-FTP SOLID COPPER CABLE - 500MHZ

## Description

RFI Cat 6A U/FTP Cable consists of 4 pairs of 23 AWG solid copper conductors insulated with HDPE. Each pair is precisely twisted and surrounded by an aluminium foil to minimize and protect crosstalk between the pairs. Tinned copper drain wire for effective grounding. The cable is covered with a Polyvinyl Chloride (PVC) Outer Jacket. Options are available for LSZH,

## Application

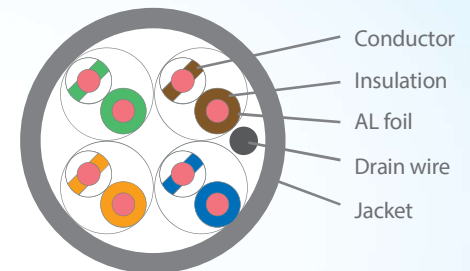
- 1000Base-T (Gigabit Ethernet)
- 10GBase-T (10 Gigabit Ethernet)

## Standard

- ANSI/TIA-568.2-D
- ISO 11801 Class EA
- IEC 60332-1
- RoHS

## Features

- 23 AWG Solid Copper Conductors
- ETL verified
- PVC, LSZH
- Tested to 500MHz
- UL,CM rate, RoHS compliance



## Physical Characteristics

Conductor	Material	Bare Copper
	Structure	0.555 ± 0.005mm
	AWG	23
Insulation	Material	HDPE
	Color Code	Blue & White/Blue Stripe
		Orange & White/Orange Stripe
		Green & White/Green Stripe
		Brown & White/Brown Stripe
Shield	Individual Shield Material	Aluminium Foil Shielded pairs
	Drain Wire	Tinned Copper, 0.40+/-0.01 mm
Jacket	Material	PVC or LSZH
	Thickness	0.50+/-0.05mm
	Diameter	7.9±0.5mm

## Electrical Characteristics

Conductor DC resistance 20 max, Ω/100m	≤9.50
DC resistance unbalance at 20	≤5
The capacitance unbalance to ground at 1KHz, at 20 (pF/100m)	≤330
1.0~500.0MHz propagation delay skew from 1MHz to the upper limit of the category at 20, 40 and 60 (ns/100m)	≤25
Characteristic impedance (Ω)(1-500MHz)	100±15

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## Physical Characteristics

Material	PVC	LSZH
Before Aging		
Tensile Strength(Mpa)	≥13.8	≥10.0
Elongation(%)	≥100.0	≥150.0
Aging Condition	(100.0±1.0)×48	(100.0±1.0)×48
Tensile Strength(Mpa)	≥85.0 of unaged	≥75.0 of unaged
Elongation(%)	≥50.0 of unaged	≥75.0 of unaged

## Electrical Characteristics

Freq (MHz)	RL (dB) (dB/100m)	Insertion Lost (dB/100m)	NEXT (dB/100m)	C.I. (ohm/100m)	PSNEXT (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	Delay (dB/100m)
4.0	23.0	3.7	78.0	100±15	75.0	78.0	75.0	552.0
8.0	24.5	5.2	78.0	100±15	75.0	72.2	74.2	547.0
10.0	24.5	5.2	78.0	100±15	75.0	75.3	72.3	545.0
16.0	25.0	7.4	78.0	100±15	75.0	71.2	68.2	543.0
20.0	25.0	8.3	78.0	100±15	75.0	69.3	66.3	542.0
25.0	24.3	9.3	78.0	100±15	75.0	67.3	64.3	541.0
31.25	23.6	10.4	78.0	100±15	75.0	65.4	62.4	540.0
62.50	21.5	14.92	75.5	100±15	72.5	59.4	56.4	539.0
100.0	20.1	19.0	72.4	100±15	69.4	55.3	52.3	538.0
200.0	18.0	27.5	67.9	100±22	64.9	49.3	46.3	537.0
250.0	17.3	31.0	66.4	100±22	63.4	47.3	44.3	536.0
300.0	17.3	34.2	65.2	100±25	62.2	45.8	42.8	536.0
500.0	17.3	45.3	61.9	100±25	58.9	41.3	38.3	536.0

## Ordering information

Part No.	Description
RCD-6A43554-1yx	Cat 6A 4-pair U/FTP 23AWG Shielded Solid Copper Cable, CM, PVC, 305M
RCD-6A41554-1yx	Cat 6A 4-pair U/FTP 23AWG Shielded Solid Copper Cable, LSZH, 305M
RCD-6A43554-4yx	Cat 6A 4-pair U/FTP 23AWG Shielded Solid Copper Cable, CM, PVC, 305M/Drum
RCD-6A41554-4yx	Cat 6A 4-pair U/FTP 23AWG Shielded Solid Copper Cable, LSZH, 305M/Drum
RCD-6A43554-2yx	Cat 6A 4-pair U/FTP 23AWG Shielded Solid Copper Cable, CM, PVC, 500M/Drum
RCD-6A41554-2yx	Cat 6A 4-pair U/FTP 23AWG Shielded Solid Copper Cable, LSZH, 500M/Drum

\*y = 0 - blue, 1 - orange, 2 - aqua, 3 - sky blue, 4 - grey, 5 - white, 6 - red, 7 - black, 8 - yellow, 9 - purple.

\*x = A, K, N

\*Other length is available upon request.