

# CAT 6A 4-PAIR F-UTP SOLID COPPER CABLE

## Description

RFI Cat 6A F/UTP Cable consists of 4 pairs of 23 AWG solid copper conductors insulated with HDPE. Each pair is precisely twisted and star filler separator to minimize and protect crosstalk between the pairs. The cable is covered with a Overall AL foil cover all the 4 pairs to prevent EMI from entering and exiting the cable. Tinned copper drain wire for effective grounding. Polyvinyl Chloride (PVC) Outer Jacket. Options are available for LSZH and PE.

## Application

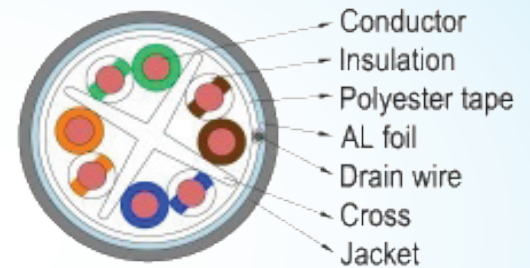
- 1000Base-T (Gigabit Ethernet)
- 10GBase-T (10 Gigabit Ethernet)

## Standard

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

## Features

- 23 AWG Solid Copper Conductors
- ETL verified
- PVC, LSZH, PE Outer Jacket
- 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			
	Central Separator	HDPE	
Shield	Overall	Aluminium Foil Shielded	
	Drain Wire	Tinned Copper(0.40±0.01mm)	
Jacket	Material	PVC or LSZH	PE
	Thickness	0.50±0.05mm	0.55±0.05mm
	Diameter	7.9±0.5mm	7.9±0.5mm

## Electrical Characteristics

	PVC or LSZH	PE
DC resistance 20°C (Ω/100m)	≤9.38	≤9.38
DC resistance unbalance at 20°C (%)	≤2.5	≤5
The mutual capacitance at 1KHz@20°C (nF/100m)	≤5.6	≤5.6
The capacitance unbalance to ground at 1KHz@20°C (pF/100m)	≤330	≤330
The propagation delay skew from 1MHz to the upper limit of the category @20°C, 40°C, 60°C (pF/100m)	≤45	≤45

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## Physical Characteristics

Material	PVC	LSZH	PE
Before Aging			
Tensile Strength(Mpa)	≥13.8	≥10.0	≥8.27
Elongation(%)	≥100.0	≥150.0	≥100.0
Aging Condition	(100.0±1.0)×48	(100.0±1.0)×48	(100.0±1.0)×48
Tensile Strength(Mpa)	≥85.0 of unaged	≥75.0 of unaged	≥60.0 of unaged
Elongation(%)	≥50.0 of unaged	≥75.0 of unaged	≥60.0 of unaged

## Electrical Characteristics

Freq (MHz)	RL (dB) (dB/100m)	Insertion Lost (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	Delay (dB/100m)
1.0	20.0	2.1	74.3	72.3	67.8	64.8	570.0
4.0	23.0	3.8	65.3	63.3	55.8	52.8	552.0
8.0	24.5	5.3	60.8	58.8	49.7	46.7	547.0
10.0	25.0	5.9	59.3	57.3	47.8	44.8	545.0
16.0	25.0	7.5	56.2	54.2	43.7	40.7	543.0
20.0	25.0	8.4	54.8	52.8	41.8	38.8	542.0
25.0	24.3	9.4	53.3	51.3	39.8	36.8	541.0
31.25	23.6	10.5	51.9	49.9	37.9	34.9	540.0
62.50	21.5	15.0	47.4	45.4	31.9	28.9	539.0
100.0	20.1	19.1	44.3	42.3	27.8	24.8	538.0
200.0	18.0	27.6	39.8	37.8	21.8	18.8	537.0
250.0	17.3	31.1	38.3	36.3	19.9	16.8	536.0
300.0	16.8	34.3	37.1	35.1	18.3	15.3	536.0
400.0	15.9	40.1	35.3	33.3	15.8	12.8	536.0
500.0	15.2	45.3	33.8	31.8	13.8	10.8	536.0

## Ordering information

Part No.	Description
RCD-6AF3554-1yx	Cat 6A 4-pair F/UTP 23AWG Shielded Solid Copper Cable, Star Filler Separator, CM, PVC, 305M
RCD-6AF1554-1yx	Cat 6A 4-pair F/UTP 23AWG Shielded Solid Copper Cable, Star Filler Separator, LSZH, 305M
RCD-6AF2554-1yx	Cat 6A 4-pair F/UTP 23AWG Shielded Solid Copper Cable, Star Filler Separator, PE, 305M
RCD-6AF3554-4yx	Cat 6A 4-pair F/UTP 23AWG Shielded Solid Copper Cable, Star Filler Separator, CM, PVC, 305M/Drum
RCD-6AF1554-4yx	Cat 6A 4-pair F/UTP 23AWG Shielded Solid Copper Cable, Star Filler Separator, LSZH, 305M/Drum
RCD-6AF2554-4yx	Cat 6A 4-pair F/UTP 23AWG Shielded Solid Copper Cable, Star Filler Separator, PE, 305M/Drum
RCD-6AF3554-2yx	Cat 6A 4-pair F/UTP 23AWG Shielded Solid Copper Cable, Star Filler Separator, CM,PVC, 500M/Drum
RCD-6AF1554-2yx	Cat 6A 4-pair F/UTP 23AWG Shielded Solid Copper Cable, Star Filler Separator, LSZH, 500M/Drum
RCD-6AF2554-2yx	Cat 6A 4-pair F/UTP 23AWG Shielded Solid Copper Cable, Star Filler Separator, PE, 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, D, K, N

\*Other length is available upon request.