

# CAT 6 4-PAIR F-FTP SOLID COPPER CABLE

## Description

RFI Cat 6 F/FTP Cable consists of 4 pairs of 23 AWG solid copper conductors insulated with FOAM PE. Each pair is precisely twisted and surrounded by an aluminium foil to minimize and protect crosstalk between the pairs. Overall AL foil cover all the 4 pairs to prevent EMI from entering and exiting the cable. The cable is covered with a Polyvinyl Chloride (PVC) Outer Jacket. Options are available for LSZH.

## Application

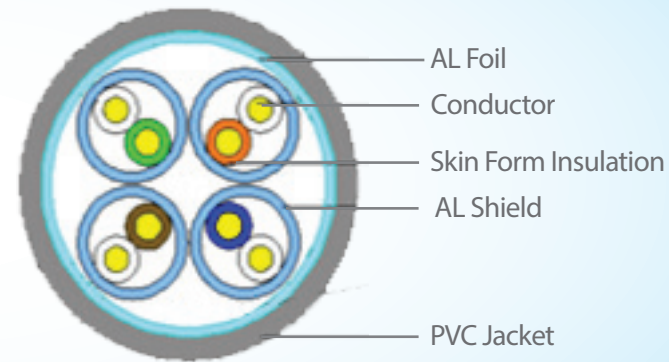
- 100 Base-T4
- 100 Base-TX
- 1000Base-T (Gigabit Ethernet)

## Standard

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

## Features

- 23 AWG Solid Copper Conductors
- ETL verified
- PVC, LSZH
- Tested to 350MHz
- UL,CM rate, RoHS compliance



## Physical Characteristics

Conductor	Material	Bare Copper
	Structure	0.555 ± 0.005mm
	AWG	23
Insulation	Material	FOAM PE
	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
	Overall	Aluminium Foil Shielded
Jacket	Material	PVC or LSZH
	Thickness	0.50+/-0.05mm
	Diameter	7.9±0.5mm

## Electrical Characteristics

DC resistance 20°C (Ω/100m)	≤9.50
DC resistance unbalance at 20°C (%)	≤2.5
The mutual capacitance at 1KHz, at 20°C (nF/100m)	≤5.6
The capacitance unbalance to ground at 20°C (pF/100m)	160

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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	77.2	74.2	547.0
10.0	24.5	5.8	78.0	100±15	75.0	75.3	72.3	545.0
16.0	25.0	7.3	78.0	100±15	75.0	71.2	68.2	543.0
20.0	25.0	8.2	78.0	100±15	75.0	69.3	66.3	542.0
31.25	23.6	10.3	78.0	100±15	75.0	65.4	62.4	540.0
62.50	21.5	14.6	75.5	100±15	75.0	59.4	56.4	539.0
100.0	20.1	18.5	72.4	100±15	72.4	55.3	52.3	538.0
200.0	18.0	26.5	67.9	100±22	67.9	49.3	46.3	537.0
250.0	17.3	29.7	66.4	100±22	66.4	47.3	44.3	536.0
350.0	16.6	32.8	64.9	100±22	64.9	45.2	42.1	536.0

## Ordering information

Part No.	Description
RCD-6053554-4yx	Cat 6 4-pair F/FTP 23AWG Shielded Solid Copper Cable, CM, PVC, 305M/Drum
RCD-6051554-4yx	Cat 6 4-pair F/FTP 23AWG Shielded Solid Copper Cable, LSZH, 305M/Drum
RCD-6053554-2yx	Cat 6 4-pair F/FTP 23AWG Shielded Solid Copper Cable, CM, PVC, 500M/Drum
RCD-6051554-2yx	Cat 6 4-pair F/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, D, K, N

\*Other length is available upon request.