

Product Specification

Name	Cat.6A F/UTP 500MHz 23AWG
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Configuration and Electrical Characteristics

Item	Specification		
Standards	ANSI/TIA 568-C.2 ISO/IEC-11801 IEC 61156-5		
Conductor	Material	Solid Bare Copper	
	Size	23AWG	
	Construction	1/0.55±0.008mm	
Insulation	Material	PE	
	Thickness	0.288mm	
	Diameter	1.125±0.06mm	
	Color	White / Blue Stripe & Blue	
		White / Orange Stripe & Orange	
White / Green Stripe & Green			
White / Brown Stripe & Brown			
Cross (X-Filler)	Material	PE	
	Thickness	0.5mm	
Drain Wire	Material	Tined copper	
Mylar & Aluminum Tape	Material	Mylar & Aluminum tape	
Jacket	Material	PVC or LSZH	
	Thickness	0.5mm	
	Diameter	7.2mm±0.3mm	
	Color	upon request	

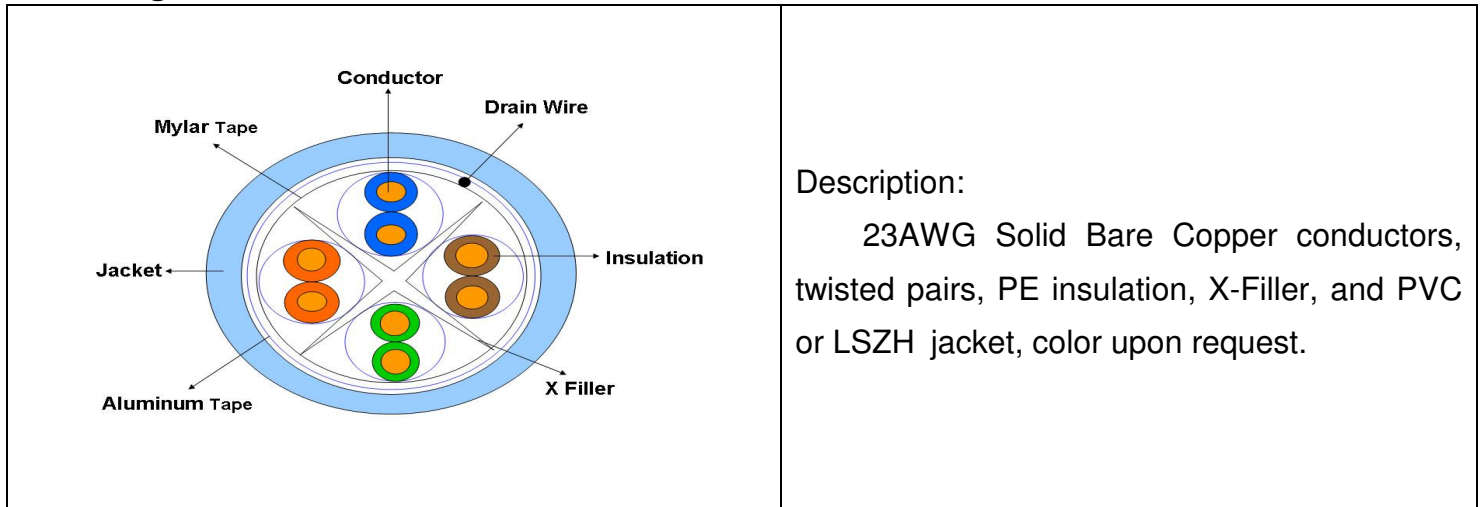
Electrical Properties

Characteristic Impedance	100Ω±15Ω
Max. d.c. resistance	28.6Ω/1000ft. (9.38Ω/100m, 23AWG)
Max. resistance unbalance	4%
Nominal velocity of propagation	66%/100m(Reference)
Max. Mutual capacitance	5.6nF/100m
Max. capacitance unbalance	1000pF/Mft.(330pF/100m),Pair/Ground
Max. d.c. loop resistance	19 Ω/100m
Min. d.c. insulation resistance	5000 MΩ*Km
Max. Propagation delay skew	45 ns/100m

Electrical Performance Specification

Frequency (MHz)	Attenuation. (dB)	Return Loss (dB)	NEXT (dB/100m)	PSNEXT (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)
4	4.1	23.0	66.3	63.3	54.5	51.5
8	5.3	24.5	61.8	58.8	49.9	46.9
10	5.9	25.0	60.3	57.3	48.0	45.0
16	7.5	25.0	57.2	54.2	43.9	40.9
20	8.4	25.0	55.8	52.8	42.0	39.0
25	9.4	24.3	54.3	51.3	40.0	37.0
31.25	10.5	23.6	52.9	49.9	38.1	35.1
62.5	15.0	21.5	48.4	45.4	32.1	29.1
100	19.1	20.1	45.3	42.3	28.0	25.0
200	27.6	18.0	40.8	37.8	22.0	19.0
250	31.1	17.3	39.3	36.3	20.0	17.0
300	34.3	17.3	38.1	35.1	18.5	15.5
400	40.1	17.3	36.3	33.3	16.0	13.0
500	45.3	17.3	34.8	31.8	14.0	11.0

Drawing



Description:

23AWG Solid Bare Copper conductors, twisted pairs, PE insulation, X-Filler, and PVC or LSZH jacket, color upon request.

PLEASE NOTE: For the reason of product improvement, Hold Key may make improvements or changes in the products, the programs or services described at any time without notice. Moreover, the information contained herein may include typo or technical errors. Changes will be periodically made to address any such issues.

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