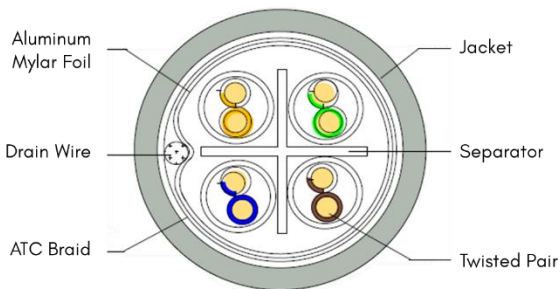# Category 6A SF/UTP Cable

Category 6A SF/UTP 4-pair Cable is a 10 Gigabit Ethernet unscreened cable, designed to provide Category 6A Link and Channel performance with internationally defined physical and electrical performance up to 500MHz.

This cable guarantees Category 6A performance ensuring maximum network speed, data throughput and efficiency.

Standards

- ANSI/TIA-568.2-D
- ISO/IEC 11801: Class EA
- IEEE 802.3bt
- 10/100/1000Base-T
- 155Mbps ATM
- Power over Ethernet (POE)

Construction

Conductor	Solid Bare Electrolytic Grade Copper
Nominal Conductor Diameter	23 AWG
Insulation	Polyolefin
Separator	HDPE
Shield	Al Mylar Foil & ATC Braid
Jacket	Low Smoke Zero Halogen
Nominal Outside Diameter	7.10 ± 0.30mm
Colour of Jacket	Grey
Braid	ATC
Sequential Marking	At Every Meter
Packaging	305 Meters In Wooden Reel

Electrical Data

DC resistance at 20ºC (max)	9.38Ω / 100m
DC resistance unbalance (max)	5%
Mutual capacitance at 20ºC (max)	5.6nF / 100m
Capacitance Unbalance (max)	330PF/100m
Operating voltage (max)	300 V DC
Delay Skew	536 nS/100m
Worse case cable skew	45 ns / 100m
Impedance (Ω)	100±15
Nominal velocity of propagation	69%
Dielectric Strength	1.5kV AC / 2.5kV DC

Environmental

Transport and storage	–20º to 75ºC
Installation	4º to 50ºC
Operation	–20º to 75ºC

Compliances

Flammability	IEC 60332-1
Smoke density	IEC 61034
Acid gas	IEC 60754-1

Transmission Performance

Frequency in MHz	Attenuation (dB/100m) max.	NEXT (dB) min.	PS.NEXT (dB) min.	ACRF (dB/100m) min.	PS.ACRF (dB/100m) min.	RL (dB/100m)
1	2.3	65.0	62.0	63.3	60.3	19.0
4	4.2	63.0	60.5	51.2	48.2	19.0
8	5.8	58.2	55.6	45.2	42.2	19.0
10	6.5	56.6	54.0	43.3	40.3	19.0
16	8.2	53.2	50.6	39.2	36.2	18.0
20	9.2	51.6	49.0	37.2	34.2	17.5
25	10.2	50.0	47.3	35.3	32.3	17.0
31.25	11.5	48.4	45.7	33.4	30.4	16.5
62.5	16.4	43.4	40.6	27.3	24.3	14.0
100	20.9	39.9	37.1	23.3	20.3	12.0
200	30.1	34.8	31.9	17.2	14.2	9.0
250	33.9	33.1	30.2	15.3	12.3	8.0
300	37.4	31.7	28.8	13.7	10.7	7.2
400	43.7	28.7	25.8	11.2	8.2	6.0
500	49.3	26.1	23.2	9.3	6.3	6.0

How to Order

Description	Colour	Quantity	Product Code
Category 6A SF/UTP Cable, LSZH	Grey	305m/Reel	501452-4

Other cable Quantities and Colours are available upon request.

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