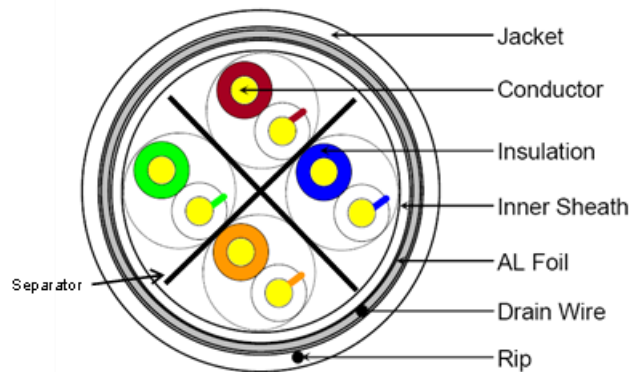
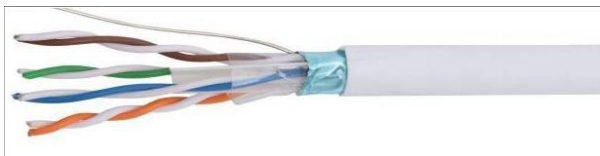




Category 6A F/UTP Twisted Pair

Alantek Category 6A F/UTP cables shall meet or exceeds TIA/EIA-568-C and ISO/IEC 11801 Category 6A Standards



Specifications

Applications:	10BASE-T, 100BASE-TX, 1000BASE-T, 10GBASE-T	
Standards:	ISO/IEC 11801, TIA 568-C.2	
POE:	IEEE 802.3af, IEEE 802.3at, <i>IEEE 802.3bt</i>	
Conductor	Solid Bare Copper	
	23AWG (0.57 ±0.05mm) x 4 pairs	
Drain Wire	Insulation Material:	HDPE
	Insulation Diameter:	1.140 ± 0.05 mm
Jacket	Material:	LSZH
	Average Thickness:	0.55 ± 0.05 mm
Electrical & Physical Properties	Min.Point Thickness:	0.5 mm
	Outer Diameter:	7.5 ± 0.3 mm
	Characteristic Impedance (1 – 500 Mhz):	100 ±15 Ω
	Mutual Capacitance at 1khz (nF/100m)	≤ 5.6
Mechanical Characteristics	Delay Skew (From 1Mhz) (ns/100m):	≤ 45
	Pair to Ground Capacitance Unbalance(pF.100m):	≤ 330
	DC resistance (Ω/100m)	≤ 9.38
	DC Resistance Unbalance (%)	≤4
	Thermal Shock Test (150°C)	No Crack
Mechanical Characteristics	Test Material	LSZH
	Tensile Strength (Mpa) (Before Ageing)	≥ 10.34
	Elongation (%) (Before Ageing)	≥ 100
	Tensile Strength (Mpa) (Ageing)	≥ 70% of unaged
	Elongation (%) (Ageing)	≥ 45% of unaged
Cold Bend (-20 ± 2°C x 4hrs)	No Crack	



Category 6A F/UTP Twisted Pair

Electrical Characteristics

FREQ. MHz	ATTN. dB/100m	NEXT dB/100m	RL dB/100m	ACRF dB/100m	PS NEXT dB/100m	PSACRF dB/100m	DELAY ns/100m
1	2.1	74.3	20	67.8	72.3	64.8	570
4	3.8	65.3	23	55.8	63.3	52.8	552
8	5.3	60.8	24.5	49.7	58.8	46.7	547
10	5.9	59.3	25	47.8	57.3	44.8	545
16	7.5	56.2	25	43.7	54.2	40.7	543
20	8.4	54.8	25	41.8	52.8	38.8	542
25	9.4	53.3	24.3	39.8	51.3	36.8	541
31.25	10.5	51.9	23.6	37.9	49.9	34.9	540
62.50	15	47.4	21.5	31.9	45.4	28.9	539
100	19.1	44.3	20.1	27.8	42.3	24.8	538
200	27.6	39.8	18	21.8	37.8	18.8	537
250	31.1	38.3	17.3	19.8	36.3	16.8	536
300	34.3	37.1	16.8	18.3	35.1	15.3	536
400	40.1	35.3	15.9	15.8	33.3	12.8	536
500	45.3	33.8	15.2	13.8	31.8	10.8	536

Ordering Information

Part Nos	Description
301-6AFU08-LxGY	Cat 6 F/UTP 4-Pairs 23AWG Twisted Shielded Pair LSZH

Substitute: x : 3= 305m/Box, 5=500m/reel, 1=1000m/reel