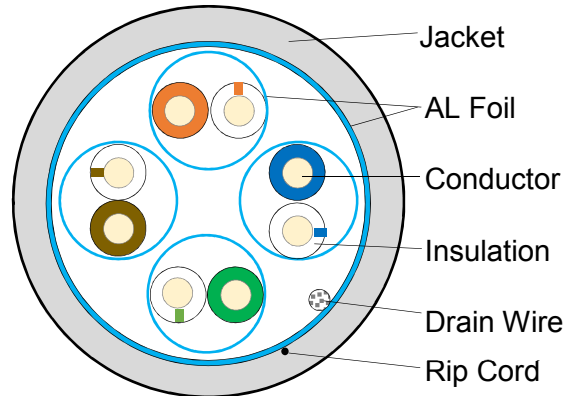




## Category 6A F/FTP Twisted Pair

Alantek Category 6A F/FTP 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, IEEE 802.3bt	
Conductor	Solid Bare Copper 23AWG (0.56 ±0.01mm) x 4 pairs	
	Insulation Material:	FMPE
	Insulation Diameter:	1.35 ± 0.05 mm
1 <sup>st</sup> Shielding	Aluminum Foil:	Individual Pair Foil
2 <sup>nd</sup> Shielding	Aluminum Foil:	Overall Foil
Drain Wire	Material:	Tinned Copper
	Conductor Diameter:	1/0.4
Rip Cord	Yes	
Jacket	Material:	PVC / LSZH
	Average Thickness:	0.50 ± 0.05 mm
	Min.Point Thickness:	0.4 mm
	Outer Diameter:	7.2 ± 0.3 mm
Electrical	Characteristic Impedance (1 – 300 Mhz):	100 ±15 Ω
& Physical Properties	Characteristic Impedance (300 – 500 Mhz):	100 ±22 Ω
	Velocity of Propagation:	70
	Delay Skew (From 1Mhz ) (ns/100m):	≤ 45
	Pair to Ground Capacitance Unbalance(pF.100m):	≤ 16000
	DC resistance (Ω/100m)	≤ 19
	DC Resistance Unbalance (%)	≤ 2



## Category 6A F/FTP Twisted Pair

### Electrical Characteristics

FREQ.	ATTN.	NEXT	RL	ELFEXT	PS NEXT	PSELFEXT
MHz	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m
1	2.0	74.0	20	68.0	72.3	65.0
4	3.7	65.0	23	56.0	63.3	53.0
10	5.9	59.0	25	48.0	57.3	45.0
16	7.5	56.0	25	43.9	54.2	40.9
20	8.4	55.0	25	42.0	52.8	39.0
31.25	10.6	52.0	23.6	38.1	49.9	35.1
62.50	15.4	47.0	21.5	32.1	45.4	29.1
100	19.8	44.0	20.1	28.0	42.3	25.0
200	29.0	40.0	18	22.0	37.8	19.0
250	32.8	38.3	17.3	20.0	36.3	17.0
300	36.4	37.1	16.8	18.5	34.1	15.5
500	48.9	33.8	15.2	14.0	30.8	11.0

### Ordering Information

Part Nos	Description
<b>301-6AF0F8-0xGY</b>	Cat 6A F/FTP 4-Pairs 23AWG, PVC, Grey, 305m/roll
<b>301-6AF0F8-LxGY</b>	Cat 6A F/FTP 4-Pairs 23AWG, LSZH, Grey, 305m/roll

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