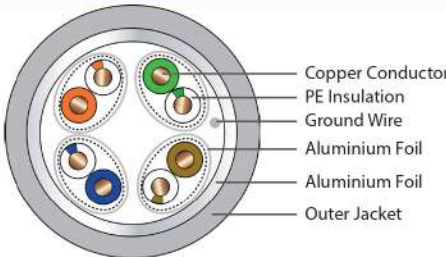


CAT 6A F/FTP 23 AWG Data Cable

CABLE DRAWING		CROSS SECTION			
					
MECHANICAL and PHYSICAL PROPERTIES					
Basic Conductor	Bare annealed copper	Outer Jacket	LSZH or PVC compound		
Conductor Size	23 AWG	Jacket Color	Gray. Other colors available upon request.		
Insulation	Polyolefin	Surface Marking	As a customer request		
Number of Insulated Conductors	8, twisted in 4 pairs	Pulling Force	50 N		
Color Code of Pairs	Blue x White, Orange x White, Green x White, Brown x White	Short Term Bend Radius	4xOD mm		
Individual Pair Shield	Laminated aluminium foil (foil face outward) providing 100% coverage.	Long Term Bend Radius	8xOD mm		
Overall Shield	Laminated Aluminium foil providing 100% coverage.	Operating Temperature	-20 to +60C		
Drain Wire	Solid, tin-coated annealed copper	Storage Temperature	-20 to +80C		
ELECTRICAL SPECIFICATIONS					
Characteristic Impedance	100±6 Ohm @ 1-500 MHz				
DC Resistance	76 Ohm/Km max.				
Resistance unbalance	2% max.				
Capacitance	45 pF/m nom. @ 1 KHz				
Cap. Unbalance (wire to ground)	1500 pF/Km max. @ 1 KHz.				
Voltage rating	72 Vdc max.				
Dielectric strength	1000 Volts/1 minute min rms				
Velocity of Propagation (NVP)	78-80%				
Propagation Delay Skew	45 nS/100m max @ 1-500 MHz				
Insulation Resistance	5000 MegaOhm·Km min. @ 500 Vdc				
Coupling attenuation	55 dB min @ 30-100 MHz 55-20Log(f/100)@100-500 MHz				
Frequency (MHz)	Return Loss (dB)	Insertion Loss (dB)	NEXT Loss (dB)	PS NEXT Loss(dB)	ACRF (dB)
	Min.	Max.	Min.	Min.	Min.
1.00	19.1	1.9	65.0	62.0	64.2
4.00	21.0	3.5	64.1	61.8	52.1
8.00	21.0	5.0	59.4	57.0	46.1
10.00	21.0	5.5	57.8	55.5	44.2
16.00	20.0	7.0	54.6	52.2	40.1
20.00	19.5	7.8	53.1	50.7	38.2
25.00	19.0	8.8	51.5	49.1	36.2
31.25	18.5	9.8	50.0	47.5	34.3
62.50	16.0	14.0	45.1	42.7	28.3
100.00	14.0	18.0	41.8	39.3	24.2
200.00	11.0	26.1	36.9	34.3	18.2
250.00	10.0	29.5	35.3	32.7	16.2
300.00	9.2	32.7	34.0	31.4	14.6
400.00	8.0	38.4	29.9	27.1	12.1
500.00	8.0	43.8	26.7	23.8	10.2
ORDERING INFORMATION					
Packaging	Approx. OD(mm)		Approx. Weight(kg/km)		
305m Box	7.6±0.3		18		
500m Drum	7.6±0.3		29		
1000m Drum	7.6±0.3		57		