



Structured Cable Products™

Quality Installations Deserve Quality Products

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SCP PART#: CAT6A-F/FTP

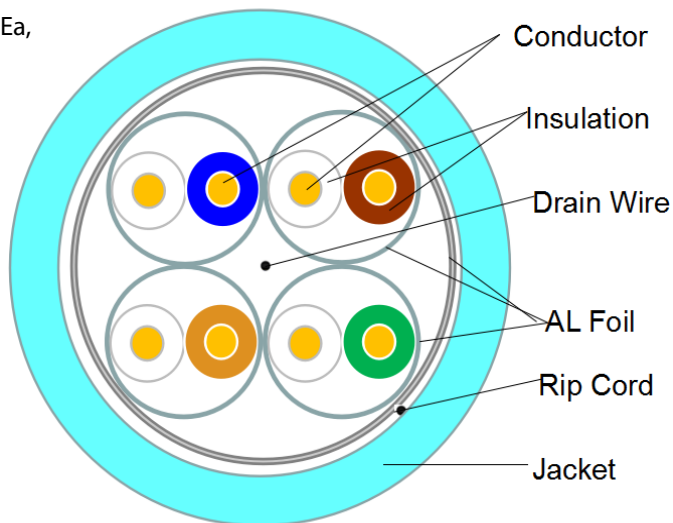
Description:

CAT6 AUGMENTED F/FTP- 10GBASE-T, 600 MHz 23 AWG
 SOLID BC, 4PR, F/FTP, ANSI/TIA 568-C.2, IEC 11801 CLASS Ea,
 UL CMR, EN50575:2014 Eca, PVC JKT -
 1000 FT/305 M SPOOL

Regulatory:

UL 444, TIA/EIA 568-C.2 and ISO/IEC 11801 Ed2
 Type (UL) CMR or c(UL) FT4
 EU RoHS 2011/65 EU Compliant
 EN50575:2014 REACTION TO FIRE CLASS Eca

Application: Lan Cable



Construction Characteristics:

Conductor	Material	Solid Bare Copper
	Size	23AWG X 4P
	Construction	1/0.57+/-0.005mm
Insulation	Material	Skin-foam-skin PE
	Min.Thickness	0.350mm
	AVG.Thickness	0.360mm
	Diameter	1.33+/-0.05mm
	Colors	Light Blue/Blue Light Orange/Orange Light Green/Green Light Brown/Brown
Pair screen	Every pair screen	Aluminum Foil
Overall screen	Shield	Aluminum Foil
Drain wire	TC	1/0.40+/-0.005
Jacket	Material	PVC
	Min.Thickness	0.54mm
	AVG.Thickness	0.60mm
	Diameter	7.20+/-0.20mm
	Rip Cord	Nylon
	Color	Per request
Bend Radius		Min 20D/145mm

Electrical & Physical Characteristics:

Operating Temperature Range		- 20°C + 75°C	
Voltage Rating		Max 300Volts	
Conductor Resistance		Max 72.2ohm/km at 20°C	
Dielectric Strength		Min AC1.5KV	
Spark Test		5.0KV	
Insulation	Unaged	Tensile Strenght	16.5Mpa
		Elongation	500%
	Aged	Tensile Strenght	14.2Mpa(100°C 168h)
		Elongation	250%(100°C 168h)
Jacket	Unaged	Tensile Strenght	11.3 Mpa
		Elongation	100%
	Aged	Tensile Strenght	8.5Mpa(100°C 168h)
		Elongation	50%(100°C 168h)
DC Resisitance Unbalance		Max 5%	
Pair-to-Ground Capacitance Unbalance		Max 3300pF/km	
Characteristic Impedance		100+/-15OHM	
Nominal Velocity of Propagation(%)		67~69	
Propagation Delay		Max 536ns/100m	
Delay Skew		Max 40ns/100m	

Marking:

STRUCTURED CABLE PRODUCTS --- CAT6A FFTP --- ENHANCED 10GBASE-T 600MHZ F/FTP ANSI/TIA-568-C.2 ISO/IEC 11801 CLASS EA E198134 SCP3 (UL) C(UL) CMR 4PR 23AWG SOL BC - EN50575:2014 CE Eca PVC JKT FT4 75C EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 ***M

Packaging:

Approx.Weight	Approx.Dimension(mm)	Package	Packages per pallet
19.60kgs/43.2lbs	360X270X160	1000FT/305M Spool	27/36

Performance-1

ITEM Frequency	Attenuation Max (dB/100m)		NEXT Min (dB)		PS NEXT Min (dB)		SKW	
	Standard	F/FTP	Standard	F/FTP	Standard	F/FTP	Standard	F/FTP
4	3.8	3.26	66.3	97.48	64.3	97	≤45	≤15
10	5.9	5.13	60.3	111.64	58.3	103.91		
16	7.5	6.56	57.2	112.19	55.2	96.87		
20	8.4	7.37	55.8	108.21	53.8	95.76		
31.25	10.5	9.33	52.9	97.37	50.9	93.8		
62.5	15	13.24	48.4	101.14	46.4	98.75		
100	19.1	16.8	45.3	99.9	43.3	90.47		
200	27.6	23.85	40.8	91.74	38.8	81.3		
250	31.1	26.78	39.3	89.96	37.3	82.51		
300	34.3	29.35	38.1	81.96	36.1	81.38		
400	40.1	33.95	36.3	83.87	34.3	77.2		
500	45.3	38.03	34.8	90.72	32.8	78.95		
600		41.97		80.93		69.53		

Performance-2

ITEM Frequency	RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		VOP %	
	Standard	F/FTP	Standard	F/FTP	Standard	F/FTP	Standard	F/FTP
4	23	33.08	61.3	112.41	59.3	99.85	68%	70%
10	25	34.8	53.3	107.63	51.3	97.21		
16	25	36.34	49.2	109.01	47.2	97.45		
20	25	30.31	47.3	93.91	45.3	96.51		
31.25	23.6	30.68	43.4	102.59	41.4	93.52		
62.5	21.5	30.21	37.4	97.9	35.4	90.2		
100	20.1	28.3	33.3	94.71	31.3	84.85		
200	18	32.76	27.3	96.93	25.3	77.75		
250	17.3	30.05	25.3	88.04	23.3	75.96		
300	17.3	30.52	23.8	76.48	21.8	76.15		
400	17.3	22.62	21.3	68.79	19.3	68.39		
500	17.3	25.38	19.3	67.91	17.3	60.27		
600		24.91		62.86		53.54		