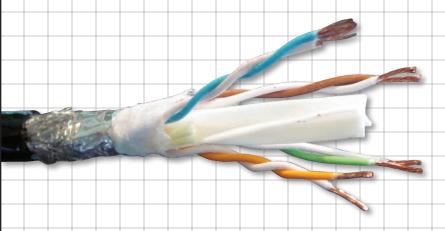


CAT6a Ethernet Cable PCCAT6AP



Applications

Flexible cable for digital, communication and local area network, indoor and outdoor use, harsh environmental applications, and high data rates.

General construction

The cable includes 4 twisted pairs, special central filler unit and Aramid in SF/UTP structure and an industrial grade PU compound jacket.

		General Specifications				
	Conductors	onductors 23 AWG (0.26 mm²) 7x0.22 mm stranded bare copper.				
	Insulation	SFS PO, Nom. Diameter 0.043" [1.1 mm]				
	Pairs	Color Coded singles twisted into pairs				
	ralls	Color Code: White X Blue; White X Orange; White X Green; White X Brown				
	Assembly	4 pairs with Aramid strength members cabled together with a special shaped central filler member				
	Aluminum foil, 100% coverage with 30% overlap, metal face out. Tinned copper braid, 80% nom coverage.					
	Material: Industrial grade PU compound OD: 8.3 mm +/- 0.3 mm Color: Black					
	Marking	rking ProPlex PCCAT6AP Cat.6A SF/UTP Data Cable [+batch number]				
	Weight	54.4 lbs./mft (81 Kg/Km)				
	Temperature Range Working: -40°C to +70°C					
Bending Radius 75 mm min.		75 mm min.				
Typical Operational Installation Length Up to 85 m (20°C)		Up to 85 m (20°C)				
	Tensile Force	150 N max.				
	Compliance	Flame test: IEC 60332.1 Environmental: per IEC 61156-6 and ISO/IEC 11801 RoHS compliance: 2002/95/EC				



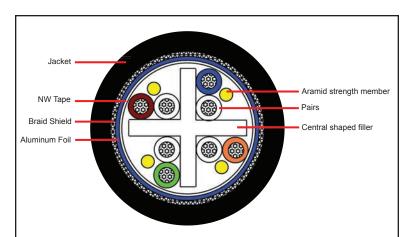
NEW YORK

BEIJING

TORONTO

tmb-info@tmb.com

RoHS Compliant



PRELIMINARY

Electrical Specifications							
Dielectric Strengtrh	500 Vrms/min.						
Pair Mutual Capacitance	42 pF/m						
Capacitance Unbalance	1.5 pF/m (800 Hz)						
Pair characteristic impedance	100 +/- 15 Ohm						
NVP (Nominal Velocity of Propagation)	78 %						
Max skew delay	30 nSec/100m						
Conductor DC resistance (20° C)	75 Ohm						
Resistance unbalance (within pairs)	2% max.						
Insulation resistance	Not less than 5 GΩ-km						
Alien cross talk	Proven by design per IEC 61156-6						
Coupling Attenuation	Type I per IEC 61156-6						
Transfer impedance	Grade 1 per IEC 61156-6						
Transverse conversion loss (TCL)	Level A per IEC 61156-6						

	Transmission Performance									
Freq. MHz	Attenuation dB/100m 20°C	PS NEXT Loss dB	NEXT Loss dB	RL dB	PS ANEXT dB	PS ELFEXT dB	ELFEXT dB			
	Typical value	Typical value	Typical value	Typical value	Typical value	Typical value	Typical value			
1	2.4	72.3	75.3	20	67	65	68			
4	4.2	63.3	66.3	23	67	53	56			
10	6.4	57.3	60.3	25	67	45	48			
20	9.1	52.8	55.8	25	67	39	42			
30	11.5	50.1	53.1	23.8	67	35.4	38.4			
100	21.4	42.3	45.3	21.1	62.5	25	28			
150	26.6	39.7	42.7	18.8	59.8	21.5	24.5			
200	50.5	37.8	40.8	18	58	19	22			
250	34.3	36.3	39.3	17.3	56.5	17	20			
300	37.7	35.1	38.1	17.3	55.3	15.5	18.5			
400	44.5	33.3	36.3	17.3	53.4	13	16			
500	50.5	31.8	34.8	17.3	52	11	14			

ProPlex CAT6a Ethernet cables (w/copper conductor) meets attenuation specs up to 85m (275 ft).

LITPPXCAT6AP-092414