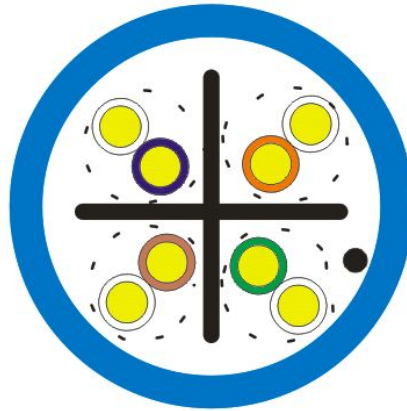


## Category 6 UTP Cable

Part Number:PROCAT6



### Application

Voice, Data, Security and Video Applications.  
IP Megapixel CCTV/Analog Installations  
Wire Access Points  
Gigabit Video/data installations

### Standards

ANSI EIA/TIA 568 B.2 Cat.5e of Channel  
ISO/IEC 2nd Edition 11801 Class E of CHANNEL  
PVC Comply with the ROHS Directive 2002/95/EC

### Flame resistance

IEC 60332-1  
CMX

### Construction

Conductor	Copper Clad Aluminum-Magnesium wire (AWG23/1)
Insulation	Polyethylene, $\varnothing 1.02 \pm 0.02$ mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Sheath CMX	PVC Blue RAL 5015

### Mechanical properties

Minimum bending radius	Installation	8 x D
Temperature range	Installed during operation	4 x D
	during installation	-20°C ~ + 60°C
		0°C ~ + 50°C

## Electrical properties @ 20°C

Dielectric strength	2.5 KV dc-2 seconds
Conductor resistance	Max 22.00 ohm/100M at 20°C
Max. Ring resistance	16.8 Ohm/100M at 20°C
Max. Mutual capacitance	560 pf/100M
Max. Capacity unbalance	330 pf/100M
Mean characteristic impedance 100 MHz	100 ± 15 Ω
Nominal velocity of propagation	approx. 67 %
Propagation delay	Nominal 535 ns/100m
Delay skew	Nominal 20 ns/100m
Test voltage (DC, 1 min)	1000 V

## Nominal transmission characteristics @ 20°C

Frequency (Mhz)	Impedance (Ohm)	Insertion loss (dB)		NEXT (dB)		PS.NEXT (dB)	
		Max	Min	Min	Min		
1	100Ω±15%	2.1	65.0*	62.0*			
4	100Ω±15%	4.0	63.0*	60.5*			
10	100Ω±15%	5.7	56.6*	54.0*			
16	100Ω±15%	8.0	53.2*	50.6			
20	100Ω±15%	9.0	51.6*	49.0*			
25	100Ω±15%	10.1	50.0*	47.3*			
31.25	100Ω±15%	11.4	48.4*	45.7*			
62.3	100Ω±15%	16.5	43.4*	40.6*			
100	100Ω±22%	21.3	39.9*	37.1*			
200	100Ω±22%	31.5	34.8*	31.9			
250	100Ω±22%	35.9	33.1*	30.2*			

## Product Code Table

Product Description	Packing Length	Part Number
23AWG CCAM Cat.6 UTP 4P PVC UL CMX Blue Color	1000ft easy pull box	PROCAT6
23AWG CCAM Cat.6 UTP 4P PVC UL CMX Blue Color	100mts box	PROCAT6/100M

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All sizes and values without tolerances are reference values. Specifications are for product as supplied by Syscom: any modification or alteration afterwards of product may give different result.

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## Cable ID: PROCAT6-EHLX009M[2]

## Test Summary: PASS

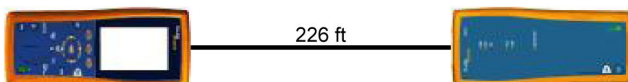
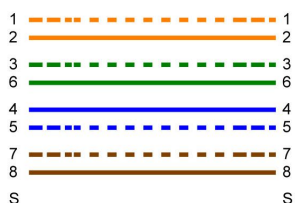
Date / Time: 07/08/2017 05:29:37am  
**Headroom: 9.0 dB (NEXT 12-36)**  
**Test Limit: TIA Cat 6 Channel**  
 Cable Type: Cat 6 UTP

Operator: Your Name  
 Software Version: 2.7400  
 Limits Version: 1.9300  
 NVP: 69.0%

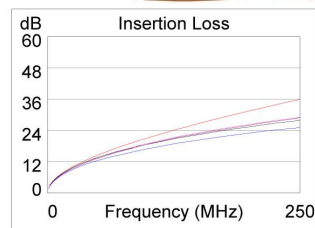
Model: DTX-1800  
 Main S/N: 1739303  
 Remote S/N: 1739304  
 Main Adapter: DTX-CHA002  
 Remote Adapter: DTX-CHA002

Wire Map (T568B)

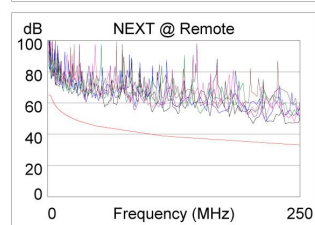
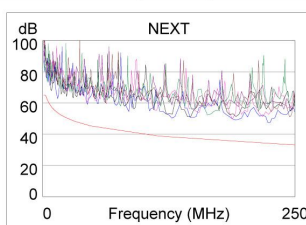
**PASS**



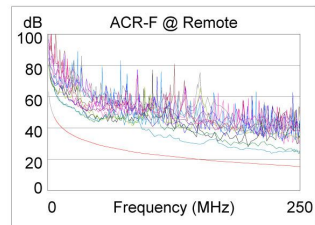
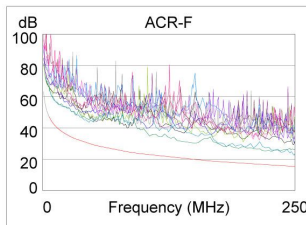
Length (ft), Limit 328	[Pair 78]	226
Prop. Delay (ns), Limit 555		343
Delay Skew (ns), Limit 50		10
Resistance (ohms)	[Pair 78]	26.6
Insertion Loss Margin (dB)	[Pair 36]	6.8
Frequency (MHz)	[Pair 36]	250.0
Limit (dB)	[Pair 36]	35.9



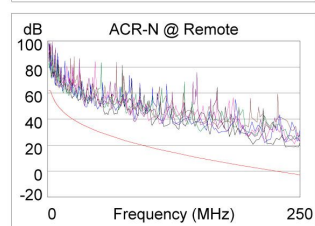
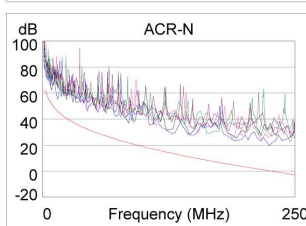
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	12-36	36-78	12-36	12-78
<b>NEXT (dB)</b>	9.0	11.3	13.4	12.7
Freq. (MHz)	14.9	3.4	224.5	236.0
Limit (dB)	53.7	64.2	33.9	33.5
Worst Pair	12	78	12	12
<b>PS NEXT (dB)</b>	11.0	11.8	13.2	13.4
Freq. (MHz)	14.9	3.6	189.0	236.0
Limit (dB)	51.1	61.2	32.3	30.6



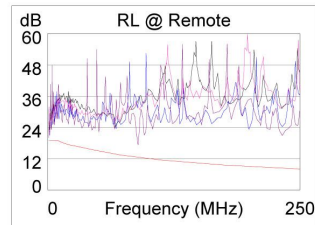
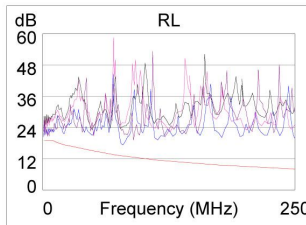
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	45-36	45-36	45-36	36-45
<b>ACR-F (dB)</b>	7.3	7.4	7.3	8.3
Freq. (MHz)	249.0	222.0	249.0	249.0
Limit (dB)	15.3	16.3	15.3	15.3
Worst Pair	36	45	36	45
<b>PS ACR-F (dB)</b>	9.7	9.9	9.7	9.9
Freq. (MHz)	249.0	249.0	249.0	249.0
Limit (dB)	12.3	12.3	12.3	12.3



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	12-36	36-78	12-36	12-78
<b>ACR-N (dB)</b>	9.1	11.6	19.3	19.2
Freq. (MHz)	14.9	3.4	224.5	236.0
Limit (dB)	46.0	60.5	0.2	-1.2
Worst Pair	12	78	36	78
<b>PS ACR-N (dB)</b>	11.6	12.1	21.6	22.2
Freq. (MHz)	14.9	3.6	223.5	241.5
Limit (dB)	43.4	57.4	-2.6	-4.8



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	78	12	12	78
<b>RL (dB)</b>	1.5	3.5	4.0	4.9
Freq. (MHz)	4.9	3.6	79.0	89.5
Limit (dB)	19.0	19.0	13.0	12.5



Compliant Network Standards:  
 10BASE-T                      100BASE-TX                      100BASE-T4  
 1000BASE-T                    ATM-25                              ATM-51  
 ATM-155                        100VG-AnyLan                    TR-4  
 TR-16 Active                    TR-16 Passive

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