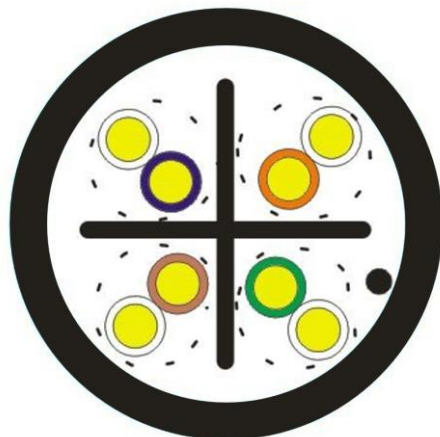


## Category 6 UTP Cable

Part Number:PROCAT6B



## 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 Black

## 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 CCA Cat.6 UTP 4P PVC CMX Black Color	1000ft easy pull box	PROCAT6B

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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]

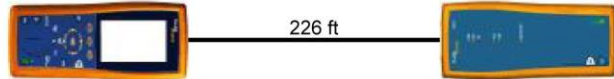
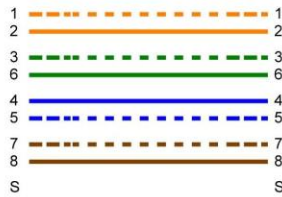
## Test Summary: PASS

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

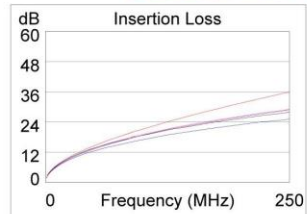
Operator: Your Name  
 Software Version: 2.7400  
 Limits Version: 1.9300  
 NVP: 69.0%

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

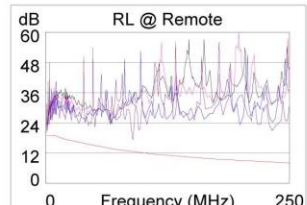
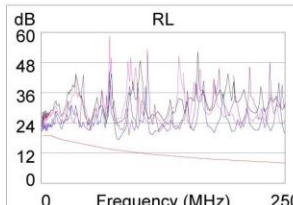
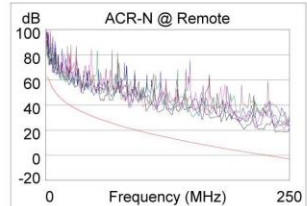
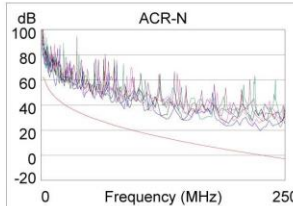
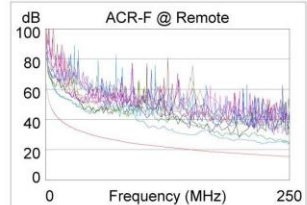
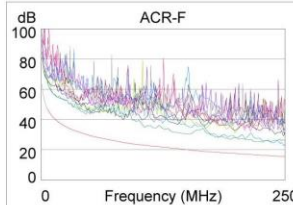
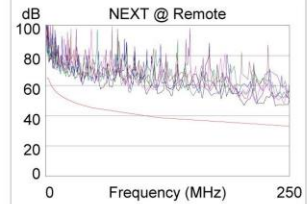
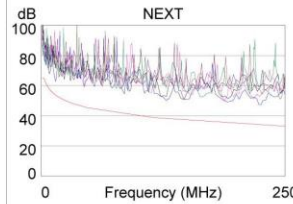
Wire Map (T568B)  
**PASS**



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
<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
<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
<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  
 100BASE-T      ATM-25            ATM-51  
 ATM-155      100VG-AnyLan    TR-4  
 TR-16 Active    TR-16 Passive

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